



**13<sup>th</sup> International Congress on Psychopharmacology**  
&  
**International Symposium on Child and Adolescent Psychopharmacology**

Overcoming Challenges: Psychiatry and Psychopharmacology  
in the Post-pandemic Era

**November 09<sup>th</sup>-12<sup>th</sup>, 2022**  
Royal Seginus Hotel / Antalya



---

**PAUL THOMPSON**

Professor of Neurology, Psychiatry, Engineering, Radiology, Pediatrics & Ophthalmology  
Imaging Genetics Center, Stevens Institute for Neuroimaging & Informatics  
University of Southern California

E-mail: [pthomp@usc.edu](mailto:pthomp@usc.edu)

WWW: <http://users.ioni.usc.edu/~thompson/thompson.html>

**EDUCATION/TRAINING:**

| INSTITUTION AND LOCATION              | Degree     | Year(s)   | Field of Study                              |
|---------------------------------------|------------|-----------|---|
| University of California, Los Angeles | Ph.D.      | 1993-1998 | <b>Neuroscience</b>                         |
| Oxford University, England            | M.A., B.A. | 1989-1993 | <b>Mathematics</b>                          |
| Oxford University, England            | B.A.       | 1989-1991 | <b>Greek &amp; Latin Languages (Greats)</b> |

**RESEARCH AND PROFESSIONAL EXPERIENCE:**

|   |              |
|---|--------------|
| <b>Professor of Neurology, Psychiatry, Engineering, Radiology &amp; Ophthalmology</b> | Sept. 2013-  |
| <b>Professor of Pediatrics</b>  | Nov. 2013-   |
| Professor of Neurology, Step 6 (Step 7 pending, for July 2013)                        | July 1 2010- |
| Professor of Psychiatry and Biobehavioral Sciences (secondary appointment)            | July 1 2011- |
| Professor of Neurology, Step 2, UCLA School of Medicine                               | July 1 2007- |
| Associate Professor of Neurology, UCLA School of Medicine                             | 2003-2007    |
| Assistant Professor of Neurology, UCLA School of Medicine                             | 1998-2003    |
| Ph.D. candidate in Neuroscience, Laboratory of Neuro Imaging, UCLA                    | 1993-1998    |
| Fellow, Howard Hughes Medical Institute   | 1993-1998    |
| Fulbright Scholar, U.S.-U.K. Fulbright Commission, London, England                    | 1993-1998    |
| Research Grantee, United States Information Agency, Washington, DC                    | 1993-1998    |

**Ph.D. thesis title** (Advisor: Arthur W. Toga, Ph.D.):

*Mathematical/Computational Strategies for Analyzing 3D Human Brain Image Databases*

**HONORS/AWARDS:**

- **2015 International Innovations in Academia Award**, Top Prize, University of Kent

- **2008 Wiley Young Investigator of the Year Award, Organization for Human Brain Mapping**
- 1997 SPIE Medical Imaging Award, Best Paper
- 1998 Di Chiro Outstanding Scientific Paper Award
- 1998 Eiduson Award for Neuroscience Research
- 1999 Study Sections and Technical Evaluation Group (TEG) Member, National Library of Medicine, NIH; Special Emphasis Panel, Center for Scientific Review, NIH; Reviewer, Small Business Innovation Research (SBIR) Grants Program 1999; Peer-Reviewer, Alzheimer's Disease Association 1999 Grants Program; 2000 Study Sections and Site Visit Reviewer, National Institute for Child Health and Development (NICHD), 2001 Study Sections and Site Visit Reviewer, National Center for Research Resources (NCRR)
- Invited Speaker: International Human Brain Mapping Conference, Montréal, 1998; Howard Hughes Medical Institute, 1998; International Conference on Visualization in Biomedical Computing, Hamburg, 1997; Eiduson Lecture, 1998; National Academy of Sciences, 2001; full list 2000-2019 is included below
- Outstanding Graduate Student of 1998, UCLA; Chancellor's Service Award, 1998
- Oxford University Scholar in Mathematics (1991-93), in Classical Languages (1989-91)
- *Guinness Book of Records* Certificate, 1989: U.K. Record Examination Achievement (9 A-levels)
- **Associate Editor, *IEEE Transactions on Medical Imaging*, 2003-2012**
- **Associate Editor, *Human Brain Mapping*, 2003-**
- **Editorial Board, *NeuroImage*, 2005-2007**
- **Editorial Board, *Medical Image Analysis*, 2002-2021**
- **Editorial Board, *Cerebral Cortex*, 2005-**
- **Editorial Board, *Inverse Problems and Imaging*, 2008-2019**
- **Editorial Board, *Translational Neuroscience*, 2010-**
- **Editorial Board, *Current Medical Imaging Reviews*, 2004-**
- **Editorial Board, *Brain Connectivity*, 2010-**
- **Editorial Board, *World Journal of Neurology*, 2011-**
- **Editorial Board, *Frontiers in Neuroscience*, 2012-**
- **Associate Editor, *Frontiers in Neurogenomics*, 2012-**
- **Editorial Board, *NeuroImage - Clinical*, 2012-**
- **Associate Editor, *Journal of Alzheimer's Disease*, 2013**
- **Associate Editor, *Network Neuroscience*, 2016-**
- **Associate Editor, *European Archives of Clinical Psychiatry & Neurological Sciences*, 2016-**
- Elected Member, **American Neurological Association** (ANA), 2007 (Sponsor: Dr. Oscar Lopez)
- 2003 Turken Prize for Alzheimer's Disease Research, Turken Endowment
- Committee Member, University of California Legislative Assembly (Dept. of Neurology Representative, 2004-2007)
- Committee Member, Appointments & Promotions Committee (Dept. of Neurology, 2004-), Competitive Awards and Bridge Funds Committee (2008-)
- University Committee on Appointments, Promotion and Tenure (UCAPT), 2014-
- **External Advisory Board, Indiana University Network Science Institute**
- **External Advisory Board, Stanford BD2K ("Big Data") Center of Excellence, 2016-2020**
- **External Advisory Board, UCLA BD2K ("Big Data") Center of Excellence, 2015-2020**
- **Chair, External Advisory Board, UK-India Neuroimaging Consortium (C-VEDA Project)**
- **External Advisory Board, California BRAIN Initiative**
- **External Advisory Board, ICM (Brain and Spine Institute) in Paris**
- **Elected Member, Board of Trustees, Skolkovo Institute of Science and Technology (SkolTech, Moscow), 5 year term, 2016-2021**

- International Scientific Advisory Board (ISAC), for the \$102M Healthy Brain for Healthy Lives (HBHL) Initiative at McGill University, Canada; 2017-
  - Scientific Advisory Council, Women’s Alzheimer’s Movement (Founder, Maria Shriver), 2017-
  - 2017 William B. Kouwenhoven Memorial Lecture at the Johns Hopkins University, USA
  - 2017 NARSAD Distinguished Senior Investigator Award
  - Scientific Board Member, Skoltech Center for Neurobiology & Brain Restoration (CNBR), Moscow, Russia
  - 2019 “10 Awesome Contemporary Biologists” - <https://www.biology.media/ten-awesome-contemporary-biologists/>
  - Thomson-Reuters Highly Cited Scientist 2018 (top 1% worldwide) – <https://hscnews.usc.edu/keck-school-faculty-named-to-highly-cited-researchers-list/>
- Wikipedia: [https://en.wikipedia.org/wiki/Paul\\_Thompson\\_\(neuroscientist\)](https://en.wikipedia.org/wiki/Paul_Thompson_(neuroscientist))
- Chair, University Committee for Academic Promotions and Tenure (UCAPT; Life Sciences), USC, 2019-
  - Member, University Committee on Tenure and Privileges Appeals, 2019-
  - Zenith Award, Alzheimer’s Association (\$450,000 Senior Investigator award), 2019
  - Chair, Scientific Advisory Council, Nebraska Center on Development and Aging (PI: Tony Wilson), 2020
  - Scientific Advisory Board Member, DBT Wellcome Trust India Alliance Research Grant to establish a “Clinical Research Centre for Neuromodulation in Psychiatry”, NIMHANS, Bangalore, India, 2020
  - External Advisory Board, UCLA Brain Gut Microbiome Center, PI: Emeran Mayer
  - Member, ADSP EC-4C – Governing Body of the Alzheimer’s Disease Sequencing Project (ADSP)
- Peer-Reviewer for Proceedings of the National Academy of Sciences, Nature Genetics, Nature Neuroscience, Neuron, IEEE Transactions on Medical Imaging, Computer Vision and Image Understanding, IEEE Transactions on Biomedical Engineering, NeuroImage, Medical Image Analysis, J. Neuroscience, Elsevier Trends in Pharmacological Science and Technology, IEEE Transactions on Visualization and Computer Graphics, Human Brain Mapping, J. Computer Assisted Tomography, American Journal of Psychiatry, Biological Psychiatry

**I. PUBLICATIONS** (abstracts and PDFs available at: [http://www.ini.usc.edu/~thompson/thompson\\_pubs.html](http://www.ini.usc.edu/~thompson/thompson_pubs.html)).

The period 1996-2022 has resulted in **2,315** research publications, listed below; they are broken down as follows:

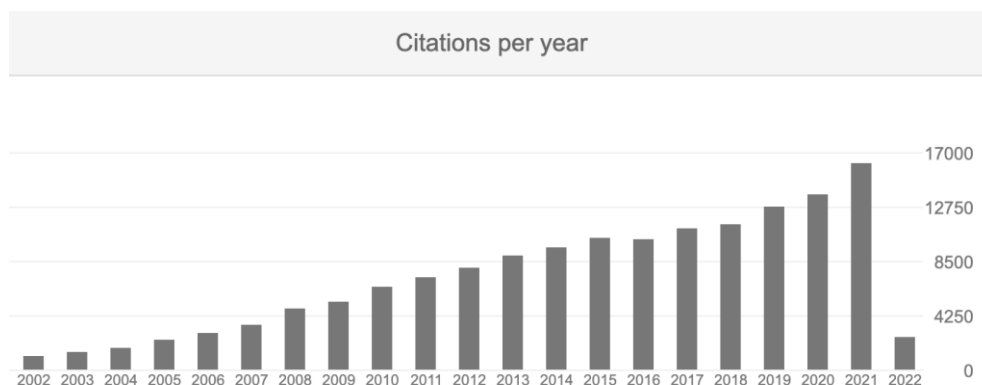
|                                     |               |   |
|-------------------------------------|---------------|---|
| <b>Peer-Reviewed Journal Papers</b> | <b>900+</b>   | <b>(35+ as first author, <u>500+ as senior/last author</u>)</b> |
| <b>Book Chapters</b>                | <b>25</b>     |   |
| <b>Conference Abstracts</b>         | <b>1,000+</b> |   |

These publications appeared in the following journals: *Science*, *Nature* (2), *Nature Genetics* (2), *Proceedings of the National Academy of Sciences of the USA* (5 papers), *Nature Neuroscience* (5 papers), *Neuron*, *Journal of Neuroscience* (7 papers), *IEEE Transactions on Medical Imaging*, *Annals of Medicine*, *Annals of Biomedical Engineering*, *NeuroImage*, *Journal of Computer Assisted Tomography*, *Neurology*, *Cerebral Cortex*, *American Journal of Psychiatry*, *American Journal of Neuroradiology*, *Image and Vision Computing*, *International Journal of Computer Vision*, *Computer Graphics and Applications*, *NeuroReport*, *Human Brain Mapping*, *Journal of the Royal Society*, and *Medical Image Analysis*. Additional peer-reviewed papers appeared in the *Journal of the American Medical Informatics Association*, *Neuro-Oncology*, *SPIE Medical Imaging*, *Proceedings of the IEEE Conference on Visualization in Biomedical Computing*, and the *SPIE Lecture Notes in Computer Science*. Invited chapters include tutorial articles in: *Nature Encyclopedia*, *Handbook of Medical Image Processing*, *Brain Mapping: The Methods*, *Brain Mapping:*

*The Disorders, Brain Warping, The Corpus Callosum, and Advances in Biomedical Image Databases.*

Reprints of published papers are available on request.

| Cited by  | VIEW ALL |            |
|-----------|----------|------------|
|           | All      | Since 2014 |
| Citations | 110731   | 51526      |
| h-index   | 152      | 99         |
| i10-index | 1175     | 893        |



CITATIONS PER YEAR – PAUL THOMPSON, 2000-2022

Google Scholar ranks all papers by citation count here – **158,000+ citations total / h-index of 188:**  
<http://scholar.google.com/citations?user=qCVy9hgAAAAJ>

### Refereed Journal Articles

1. **Thompson PM**, Giedd JN, Woods RP, MacDonald D, Evans AC, Toga AW (2000). *Growth Patterns in the Developing Brain Detected By Using Continuum-Mechanical Tensor Maps*, **Nature**, **404**:(6774) 190-193, March 9, 2000.
2. Zeineh MM, Engel SA, **Thompson PM**, Bookheimer S (2003). *Dynamics of the Hippocampus During Encoding and Retrieval of Face-Name Pairs*, **Science**, 299(5606):577-580, January 24 2003.
3. **Thompson PM**, Vidal CN, Giedd JN, Gochman P, Blumenthal J, Nicolson R, Toga AW, Rapoport JL (2001). *Mapping Adolescent Brain Change Reveals Dynamic Wave of Accelerated Gray Matter Loss in Very Early-Onset Schizophrenia*, **Proceedings of the National Academy of Sciences of the USA**, **98**(20):11650-11655, September 25, 2001.
4. **Thompson PM**, Cannon TD, Narr KL, van Erp T, Khaledy M, Poutanen V-P, Huttunen M, Lönqvist J, Standertskjöld-Nordenstam C-G, Kaprio J, Dail R, Zoumalan CI, Toga AW (2001). *Genetic Influences on Brain Structure*, **Nature Neuroscience** **4**(12):1253-8, Dec. 2001.

5. **Thompson PM**, MacDonald D, Mega MS, Holmes CJ, Evans AC, Toga AW (1997a) *Detection and Mapping of Abnormal Brain Structure with a Probabilistic Atlas of Cortical Surfaces*, **Journal of Computer Assisted Tomography**, **21**(4):567-581, Jul.-Aug. 1997. [**Di Chiro Outstanding Scientific Paper Award, 1998**].
6. **Thompson PM**, Toga AW (1997b) *Detection, Visualization and Animation of Abnormal Anatomic Structure with a Deformable Probabilistic Brain Atlas based on Random Vector Field Transformations* (Invited Paper), **Medical Image Analysis** **1**(4): 271-294; paper, with video sequences on CD-ROM with Journal Issue, November 1997.
7. **Thompson PM**, Schwartz C, Lin RT, Khan AA, Toga AW (1996a) *3D Statistical Analysis of Sulcal Variability in the Human Brain*, **Journal of Neuroscience**, **16**(13):4261-4274, July 1996 [Cover Article].
8. **Thompson PM**, Schwartz C, Toga AW (1996b) *High-Resolution Random Mesh Algorithms for Creating a Probabilistic 3D Surface Atlas of the Human Brain*, **NeuroImage** **3**(1):19-34, March 1996 [Cover Article].
9. **Thompson PM**, Toga AW (1996c) *A Surface-Based Technique for Warping 3-Dimensional Images of the Brain*, **IEEE Transactions on Medical Imaging**, **15**(4):1-16, August 1996.
10. **Thompson PM** (1998). *The Nature and Role of Intuition in Mathematical Epistemology*, **Philosophia: The Philosophical Quarterly of Israel**, **26**(3-4):279-319; Springer collection on Humanities, Social Sciences and Law, March 1998.
11. **Thompson PM**, Moussai J, Khan AA, Zohoori S, Goldkorn A, Mega MS, Small GW, Cummings JL, Toga AW (1998) *Cortical Variability and Asymmetry in Normal Aging and Alzheimer's Disease*, **Cerebral Cortex**, **8**(6):492-509, Sept.1998.
12. **Thompson PM**, Toga AW (1996d) *Visualization and Mapping of Anatomic Abnormalities using a Probabilistic Brain Atlas Based on Random Fluid Transformations*, **Proc. IEEE Visualization in Biomedical Computing**, Hamburg, Germany, September 1996, **4**:383-392. Also in: **Lecture Notes in Computer Science (LNCS) 1131**:383-392, K-H Höhne, R Kikinis [eds.], Springer-Verlag.
13. **Thompson PM**, Mega MS, Woods RP, Blanton RE, Moussai J, Zoumalan CI, Aron J, Cummings JL, Toga AW (2001). **Early Cortical Change in Alzheimer's Disease Detected with a Disease-Specific Population-Based Brain Atlas**, **Cerebral Cortex** **11**(1):1-16, Jan. 2001.
14. **Thompson PM**, Woods RP, Mega MS, Toga AW (2000). *Mathematical/Computational Challenges in Creating Population-Based Brain Atlases*, [Invited Paper], **Human Brain Mapping** **9**(2):81-92, Feb. 2000.
15. **Thompson PM**, Mega MS, Toga AW (2000). *Disease-Specific, Probabilistic Brain Atlases*, **Proceedings of the IEEE**, International Conference on Computer Vision and Pattern Recognition, June 2000.
16. **Thompson PM**, Mega MS, Vidal C, Rapoport JL, Toga AW (2001). **Detecting Disease-Specific Patterns of Brain Structure using Cortical Pattern Matching and a Population-Based Probabilistic Brain Atlas**, IEEE Conference on Information Processing in Medical Imaging (IPMI), UC Davis, 2001, in: **Lecture Notes in Computer Science (LNCS) 2082**:488-501, M Insana, R Leahy [eds.], Springer-Verlag.
17. **Thompson PM**, Toga AW (2002). *A Framework for Computational Anatomy* [Invited Paper], **Computing and Visualization in Science**, **5**:1-12.
18. **Thompson PM** (2002). *Brain Deficit Patterns May Signal Early-Onset Schizophrenia* [Invited Article], **Psychiatric Times**, **19**(8):30-32, August 2002.

19. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Doddrell DM, Cannon TD, Toga AW (2002). *Detecting Dynamic and Genetic Effects on Brain Structure using High-Dimensional Cortical Pattern Matching*, Proc. International Symposium on Biomedical Imaging (ISBI2002), Washington, DC, July 7-10, 2002.
20. **Thompson PM**, Cannon TD, Toga AW (2002). *Mapping Genetic Influences on Human Brain Structure* [Review Paper], **Annals of Medicine**, 2002;34(7-8):523-36.
21. **Thompson PM**, Rapoport JL, Cannon TD, Toga AW (2002). *Imaging the Brain as Schizophrenia Develops: Dynamic and Genetic Brain Maps*, [Invited Paper], **Primary Psychiatry**, 2002.
22. **Thompson PM**, Toga AW (2003). *Cortical Diseases and Cortical Localization* [Review Article], **Nature Encyclopedia of the Life Sciences**, [in press].
23. **Thompson PM** (2003). *Schizophrenia*, **World Book Encyclopedia**, [peer-reviewed entry].
24. **Thompson PM**, Toga AW (2003). *Alzheimer's Disease: MRI Imaging of Progressive Brain Change* [Review Article], Adelman G, Smith BH, [eds.], **Encyclopedia of Neuroscience**, Nov. 2003.
25. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Herman D, Hong MS, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamics of Gray Matter Loss in Alzheimer's Disease*, **Journal of Neuroscience**, 23(3):994-1005, Feb. 1 2003.
26. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Sowell ER, Rose SE, Semple J, Herman D, Hong MS, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamic Mapping of Alzheimer's Disease*, Proceedings of the 19<sup>th</sup> Colloque Medecine et Recherche, IPSEN Foundation, Paris, March 2003; Springer-Verlag.
27. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Gravano D, Doddrell DM, Toga AW (2004). *Mapping Hippocampal and Ventricular Change in Alzheimer's Disease*, **NeuroImage**, 22(4):1754-66, Aug. 2004; published online, June 1, 2004.
28. **Thompson PM**, Hayashi KM, Simon S, Geaga J, Hong MS, Sui Y, Lee JY, Toga AW, Ling WL, London ED (2004). *Structural Abnormalities in the Brains of Human Subjects who use Methamphetamine*, **Journal of Neuroscience**, 24(26):6028-6036, June 30 2004.
29. **Thompson PM**, Hayashi KM, Sowell ER, Gogtay N, Giedd JN, Rapoport JL, de Zubicaray GI, Janke AL, Rose SE, Semple J, Doddrell DM, Wang YL, van Erp TGM, Cannon TD, Toga AW (2004). *Mapping Cortical Change in Alzheimer's Disease, Brain Development, and Schizophrenia*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, 23 Suppl 1:S2-18, September 2004.
30. **Thompson PM**, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, Reiss AL (2005). *Abnormal Cortical Complexity and Thickness Profiles Mapped in Williams Syndrome*, **Journal of Neuroscience**, 25(18): 4146-4158, April 20, 2005.
31. **Thompson PM**, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Thinning of the Cerebral Cortex in HIV/AIDS Reflects CD4+ T-Lymphocyte Decline*, **Proceedings of the National Academy of Sciences**, 102(43):15647-15652, October 25, 2005 [published online, Oct. 10, 2005].
32. **Thompson PM**, Sowell ER, Gogtay N, Giedd JN, Vidal CN, Hayashi KM, Leow A, Nicolson R, Rapoport JL, Toga AW (2005). Structural MRI and Brain Development, **International Review of Neurobiology** 2005; 67PB:285-323.

33. **Thompson PM**, Dutton RA, Hayashi KM, Lu A, Lee SE, Lee JY, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2006). *3D Mapping of Ventricular & Corpus Callosum Abnormalities in HIV/AIDS*, **NeuroImage**, 31(1):12-23, Jan 2006 [Epub ahead of print].
34. **Thompson PM**, Hayashi KM, Dutton RA, Chiang MC, Leow AD, Sowell ER, de Zubicaray GI, Becker JT, Lopez OL, Aizenstein HJ, Toga AW (2006). *Tracking Alzheimer's Disease*, **Proceedings of the New York Academy of Sciences**, Special Issue on *Imaging and the Aging Brain*, ed. De Leon MJ, Federoff H, Hirsch J, Martin GM, Morrison J, Snider A; **1097**: 183–214, February 2007.
35. Memoli F, Sapiro G, **Thompson PM** (2004). *Implicit Brain Imaging*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, September 2004.
36. Pitiot A, Delingette H, **Thompson PM**, Ayache N (2004). *Expert Knowledge Guided Segmentation System for Brain MRI*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, September 2004.
37. Gray JR, **Thompson PM** (2004). *Neurobiology of Intelligence: Science and Ethics*, **Nature Reviews Neuroscience**, 2004 Jun;5(6):471-82. Abridged version also published in *Readings in Neuroethics*, Ed. Martha Farah, 2009.
38. Gray JR, **Thompson PM** (2004). *Neurobiology of Intelligence: Health Implications?*, **Discovery Medicine**, 22:157-162.
39. Ashburner J, Csernansky J, Davatzikos C, Fox NC, Frisoni G, **Thompson PM** (2003). *Computer-Assisted Imaging to Assess Brain Structure in Healthy and Diseased Brains*, **Lancet Neurology** 2(2):79-88, February 2003.
40. Gogtay N, Giedd JN, Lusk L, Hayashi KM, Greenstein D, Vaituzis C, Nugent TF, Herman DH, Classen L, Toga AW, Rapoport JL, **Thompson PM** (2004). *Dynamic Mapping of Human Cortical Development During Childhood and Adolescence*, **Proceedings of the National Academy of Sciences**, 101(21):8174-8179, May 25 2004.
41. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Narr KL, Khaledy M, Zoumalan CI, Dail R, Kaprio J (2002). *Cortex Mapping Reveals Heteromodal Gray Matter Deficits in Monozygotic Twins Discordant for Schizophrenia*, **Proceedings of the National Academy of Sciences of the USA**, 99(5):3228-3233.
42. Cannon TD, van Erp TGM, Bearden CE, Loewy R, **Thompson PM**, Toga AW, Huttunen MO, Keshavan M, Seidman LJ, Tsuang MT (2003). *Early and Late Neurodevelopmental Influences in the Prodrome to Schizophrenia: Contributions of Genes, Environment, and their Interactions*, **Schizophrenia Bulletin**, Special Issue, 2003; 29(4):653-69.
43. Cannon TD, Hennah W, van Erp TGM, **Thompson PM**, Lönngqvist J, Huttunen M, Gasperoni T, Tuulio-Henriksson, Pirkola T, Toga AW, Kaprio J, Mazziotta JC, Peltonen L (2005). *DISC1/TRAX Haplotypes Associate with Schizophrenia, Reduced Prefrontal Gray Matter, and Impaired Short- and Long-Term Memory*, **Archives of General Psychiatry**, 62(11):1205-13, Nov. 2005.
44. Toga AW, **Thompson PM**, Holmes CJ, Payne BA (1996) *Informatics and Computational Neuroanatomy*, Proc. of the American Medical Informatics Association, Section S75 - Brain Mapping and Image Databases,

Washington, DC, USA, October 26-30, 1996, 299-303 [peer-reviewed article].

45. Toga AW, **Thompson PM** (1997) *Measuring, Mapping, and Modeling Brain Structure and Function* **First Prize (Best Paper)**, SPIE Medical Imaging Symposium, February 1997, Newport Beach, CA, USA; SPIE Lecture Notes Volume 3033:104-114.
46. Toga AW, **Thompson PM** (2001). *The Role of Image Registration in Brain Mapping* [Invited Paper], **Image and Vision Computing Journal**, **19**(1-2):3-24.
47. Toga AW, **Thompson PM**, Mega MS, Narr KL, Blanton RE (2001). *Probabilistic Approaches for Atlasing Normal and Disease-Specific Brain Variability* [Invited Paper], **Anatomy and Embryology** (Berlin) 204(4):267-82, Oct. 2001.
48. Toga AW, **Thompson PM** (2001). *Maps of the Brain* [Invited Paper], **The New Anatomist (Anat Rec.)**, **265**(2):37-53, April 5 2001.
49. Toga AW, **Thompson PM** (2002). *New Approaches in Brain Morphometry* [Invited Paper], **Journal of Gerontology** 10(1):13-23, Jan./Feb. 2002.
50. Toga AW, **Thompson PM** (2003). *Mapping Brain Asymmetry* [Invited Paper], **Nature Reviews Neuroscience**, 4(1):37-48, January 2003.
51. Toga AW, **Thompson PM** (2003). *Temporal Dynamics of Brain Anatomy* [Invited Paper], **Annual Review of Biomedical Engineering**, 5:119-145, Aug. 2003.
52. Toga AW, **Thompson PM** (2005). *Genetics of Brain Structure and Intelligence*, **Annual Review of Neuroscience**, 2005;28:1-23.
53. Toga AW, **Thompson PM** (2005). *Brain Atlases of Normal and Diseased Populations*, **International Review of Neurobiology**, 2005;66:1-54. Review.
54. Toga AW, **Thompson PM**, Sowell ER (2006). *Mapping Brain Maturation*, **Trends in Neuroscience**, 2006 Feb 9; [Epub ahead of print]
55. Toga AW, **Thompson PM**, Mori S, Amunts K, Zilles K (2006). *Towards Multimodal Atlases of the Human Brain*, **Nature Reviews Neuroscience**, 2006 Dec;7(12):952-66.
56. Toga AW, Narr KL, **Thompson PM**, Luders E (2009). *Brain Asymmetry: Evolution* [Review Article], **Encyclopedia of Neuroscience**, 2<sup>nd</sup> Edition, published, January 2009.
57. Mega MS, Chen S, **Thompson PM**, Woods RP, Karaca TJ, Tiwari A, Vinters H, Small GW, Toga AW (1997a) *Mapping Pathology to Metabolism: Coregistration of Stained Whole Brain Sections to PET in Alzheimer's Disease*, **NeuroImage** 5:147-153, February 1997.
58. Mega MS, **Thompson PM**, Cummings JL, Back CL, Xu LQ, Zohoori S, Goldkorn A, Moussai J, Fairbanks L, Small GW, Toga AW (1998) *Sulcal Variability in the Alzheimer's Brain: Correlations with Cognition*, **Neurology**, **50**:145-151, January 1998.
59. Mega MS, Chu T, Mazziotta JC, Trivedi KH, **Thompson PM**, Shah A, Cole G, Frautschy SA, Toga AW (1999). *Mapping Biochemistry to Metabolism: FDG-PET and Beta-Amyloid Burden in Alzheimer's Disease*, **NeuroReport** 10(14):2911-2917, Sept. 29 1999.



60. Narr KL, **Thompson PM**, Sharma T, Moussai J, Cannestra AF, Toga AW (2000). *Mapping Corpus Callosum Morphology in Schizophrenia*, **Cerebral Cortex**, **10**(1):40-49, January 2000.
61. Narr KL, **Thompson PM**, Sharma T, Moussai J, Blanton RE, Anvar B, Edris A, Krupp R, Rayman J, Khaledy M, Toga AW (2001). *3D Shape Characterization and Mapping of Temporo-Limbic Regions and the Lateral Ventricles in Schizophrenia*, **Biological Psychiatry** **50**(2):84-97, July 15, 2001.
62. Narr KL, **Thompson PM**, Sharma T, Moussai J, Zoumalan CI, Rayman J, Toga AW (2001). *3D Mapping of Gyral Shape and Cortical Surface Asymmetries in Schizophrenia: Gender Effects*, **Am J Psychiatry** 2001 Feb 1;158(2):244-255.
63. Narr KL, Cannon TD, Woods RP, **Thompson PM**, Kim S, Asuncion D, van Erp TG, Poutanen VP, Huttunen M, Lonnqvist J, Standerskjold-Nordenstam CG, Kaprio J, Mazziotta JC, Toga AW (2002). *Genetic contributions to altered callosal morphology in schizophrenia*. **Journal of Neuroscience**, May 1, 22(9):3720-9.
64. Narr KL, van Erp TG, Cannon TD, Woods RP, **Thompson PM**, Jang S, Blanton R, Poutanen VP, Huttunen M, Lonnqvist J, Standerskjold-Nordenstam CG, Kaprio J, Mazziotta JC, Toga AW. (2002). *A twin study of genetic contributions to hippocampal morphology in schizophrenia*, **Neurobiology of Disease**, 2002 Oct;11(1):83-95.
65. Narr KL, Sharma T, Woods RP, **Thompson PM**, Sowell ER, Rex D, Kim S, Asuncion D, Jang S, Mazziotta J, Toga AW (2003). *Increases in Regional Subarachnoid CSF without Apparent Cortical Gray Matter Deficits in Schizophrenia: Modulating Effects of Sex and Age*, **Am J Psychiatry**. 2003 Dec;160(12):2169-80.
66. Narr KL, **Thompson PM**, Szeszko P, Robinson D, Jang S, Woods RP, Kim S, Hayashi KM, Asuncion D, Toga AW, Bilder RM (2004). *Regional Specificity of Hippocampal Volume Reductions in First Episode Schizophrenia*, **NeuroImage** 2004 Apr;21(4):1563-75.
67. Narr KL, Bilder RM, Kim S, **Thompson PM**, Szeszko P, Robinson D, Luders E, Toga AW (2004). *Abnormal Gyral Complexity in First Episode Schizophrenia*, **Biological Psychiatry** 2004 Apr 15; 55(8):859-67.
68. Narr KL, Bilder RM, Toga AW, Woods RP, Rex DE, Szeszko PR, Robinson D, Sevy S, Gunduz-Bruce H, Wang YP, DeLuca H, **Thompson PM** (2005). *Mapping Cortical Thickness and Gray Matter Concentration in First Episode Schizophrenia*, **Cerebral Cortex**, 2005 Jun;15(6):708-19. 2004 Sep 15; [Epub ahead of print].
69. Narr KL, Toga AW, Szeszko P, **Thompson PM**, Woods RP, Robinson D, Sevy S, Wang Y, Schrock K, Bilder RM (2005). *Cortical thinning in cingulate and occipital cortices in first episode schizophrenia*, **Biological Psychiatry**, 2005 Jul 1;58(1):32-40.
70. Narr KL, Bilder RM, Woods RP, **Thompson PM**, Szeszko P, Robinson D, Ballmaier M, Messenger B, Wang Y, Toga AW (2005). *Regional specificity of cerebrospinal fluid abnormalities in first episode schizophrenia*, **Psychiatry Research**, 2005 Dec 27; [Epub ahead of print].
71. Dinov ID, Mega MS, **Thompson PM**, Lee L, Woods RP, Holmes CJ, Sumners DL, Toga AW (2000) *Analyzing Functional Brain Images in a Probabilistic Atlas: A Validation of Sub-Volume Thresholding*, **J. Computer Assisted Tomography** **24**(1):128-138, Jan.-Feb. 2000.
72. Dinov ID, Mega MS, **Thompson PM**, Woods RP, Sumners DWL, Sowell EL, Toga AW (2002). *Quantitative Comparison and Analysis of Image Registration Using Frequency-Adaptive Wavelet Shrinkage*, **IEEE Transactions on Information Technology in Biomedicine**, 2002 Mar;6(1):73-85.

73. Zhou Y, **Thompson PM**, Toga AW (1999). *Automatic Extraction and Parametric Representations of Cortical Sulci*, **Computer Graphics and Applications** 19(3):49-55, May 1999.
74. Pitiot A, Toga AW, **Thompson PM** (2002). *Adaptive elastic segmentation of brain MRI via shape-model-guided evolutionary programming*, **IEEE Transactions on Medical Imaging**, 21(8):910-23, Aug. 2002.
75. Pitiot A, Bardinet E, **Thompson PM**, Malandain G (2003). *Automated Piecewise Affine Registration of 2D Images via Clustering of Dense Similarity Maps*, Proc. International Workshop on Biomedical Image Registration, Gee, J.C., Maintz, T., [eds.], University of Pennsylvania, Philadelphia, USA, 2003.
76. Pitiot A, Delingette H, **Thompson PM** (2003). *Learning Object Correspondences with the Observed Transport Shape Measure*, Proc. IPMI 2003, eds. Taylor C, Noble A, Ambleside, England, UK.
77. Pitiot A, Bardinet E, **Thompson PM**, Malandain G (2006). Piecewise affine registration of biological images for volume reconstruction. **Medical Image Analysis**, 2006 Jun;10(3):465-83. Epub 2005 Jun 15.
78. Pitiot A, Delingette H, Ayache N, **Thompson PM** (2003). *Expert Knowledge Guided Segmentation System for Brain MRI*, **Proceedings of MICCAI**, 2003, Volume 2879/2003, 644-652.
79. Pitiot A, Delingette H, **Thompson PM**, Ayache N (2004). *Expert Knowledge Guided Segmentation System for Brain MRI*, **NeuroImage**, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, 23 Suppl 1:S85-96.
80. Pitiot A, Toga AW, Ayache N, **Thompson PM** (2002). *Texture-Based MRI Segmentation with a Two-Stage Hybrid Neural Classifier*, IEEE 2002 World Congress on Computational Intelligence and Neural Nets, Honolulu, HI, May 12-17, 2002 [peer-reviewed article].
81. Pitiot A, Delingette H, **Thompson PM** (2007). *Learning Shape Correspondence for n-D Curves*, **International Journal of Computer Vision**, 71(1), pp. 71-88, January 2007.
82. Sowell ER, **Thompson PM**, Holmes CJ, Bath R, Trauner DA, Jernigan TL, Toga AW (1999). *Localizing Age-Related Changes in Brain Structure between Childhood and Adolescence using Statistical Parametric Mapping*, **NeuroImage** 9(6 pt 1):587-597, June 1999.
83. Sowell ER, **Thompson PM**, Holmes CJ, Jernigan TL, Toga AW (1999). *Progression of Structural Changes in the Human Brain during the First Three Decades of Life: In Vivo Evidence for Post-Adolescent Frontal and Striatal Maturation*, **Nature Neuroscience** 2(10):859-61, October 1999.
84. Sowell ER, Levitt J, **Thompson PM**, Holmes CJ, Blanton RE, Kornsand DS, Caplan R, McCracken J, Asarnow R, Toga AW (1999). *Brain Abnormalities in Early-Onset Schizophrenia Spectrum Disorder Observed with Statistical Parametric Mapping of Structural Magnetic Resonance Images*, **American Journal of Psychiatry** 157(9):1475-84, Sept. 2000.
85. Sowell ER, **Thompson PM**, Rex DE, Kornsand DS, Jernigan TL, Toga AW (2002). *Mapping Sulcal Pattern Asymmetry and Local Cortical Surface Gray Matter Distribution In Vivo: Maturation in Perisylvian Cortices*, **Cerebral Cortex** 12(1):17-26, Jan. 2002.
86. Sowell ER, Mattson SN, **Thompson PM**, Jernigan TL, Riley EP, Toga AW (2001). *Mapping Callosal Morphology and Cognitive Correlates: Effects of Heavy Prenatal Alcohol Exposure*, **Neurology** 57(2):235-44, July 2001.

87. Sowell ER, **Thompson PM**, Mattson S, Tessner K, Jernigan TL, Riley EP, Toga AW (2001). *Voxel-Based Morphometric Analyses of the Brain in Children and Adolescents Pre-natally Exposed to Alcohol: Abnormalities in Posterior Temporo-Parietal Cortex*, **NeuroReport** 12(3):515-23, March 5, 2001.
88. Sowell ER, **Thompson PM**, Tessner KD, Toga AW (2001). *Mapping Continued Brain Growth and Gray Matter Density Reduction in Dorsal Frontal Cortex: Inverse Relationships during Post-Adolescent Brain Maturation*, **Journal of Neuroscience** 21(22):8819-29, Nov. 15 2001.
89. Sowell ER, **Thompson PM**, Mattson SN, Tessner KD, Jernigan TL, Riley EP, Toga AW (2002). *Regional Brain Shape Abnormalities Persist into Adolescence after Heavy Prenatal Alcohol Exposure*, **Cerebral Cortex**, 12(8):856-65.
90. Sowell ER, **Thompson PM**, Peterson BS, Mattson SN, Welcome SE, Henkenius AL, Riley EP, Jernigan TL, Toga AW (2002). *Mapping Cortical Gray Matter Asymmetry Patterns in Adolescents with Heavy Prenatal Alcohol Exposure*, **Neuroimage**, 17(4):1807-19, Dec. 2002.
91. Sowell ER, Peterson BS, **Thompson PM**, Welcome SE, Henkenius AL, Toga AW (2003). *Mapping Cortical Change Across the Human Lifespan*, **Nature Neuroscience**, 6(3):309-15, March 2003.
92. Sowell ER, **Thompson PM**, Welcome SE, Henkenius AL, Toga AW, Peterson BS (2003). *Cortical Abnormalities in Children and Adolescents with Attention-Deficit Hyperactivity Disorder*, **The Lancet**, 22:362(9397):1699-1707, December 2003.
93. Sowell ER, **Thompson PM**, Toga AW (2004). *Mapping Changes in the Human Cortex Throughout the Span of Life* [Invited Review], **The Neuroscientist**, 10(4):372-92, August 2004.
94. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Toga AW (2001). *Tracking Tumor Growth Rates in Patients with Malignant Gliomas: A Test of Two Algorithms*, **American Journal of Neuroradiology (AJNR)** 22(1):73-82, Jan. 2001.
95. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Frew A, Toga AW (2000). *Cross-Validation of Tissue Classification and Surface Modeling Algorithms for Determining Growth Rates of Malignant Gliomas: Prognostic Value of Growth Rates and MR Spectroscopy*, The 2000 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, Las Vegas, NV, June 2000.
96. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Frew A, Torres-Trejo A, Mazziotta JC, Toga AW (2001). *Mapping Response in a Patient with Malignant Glioma*, **J. Computer Assisted Tomography**, 25(4):529-536.
97. Blanton RE, Levitt JL, **Thompson PM**, Capetillo-Cunliffe LF, Sadoun T, Williams T, McCracken JT, Toga AW (2001). *Mapping Cortical Variability and Complexity Patterns in the Developing Human Brain*, **Psychiatry Research: Neuroimaging**, 107:29-43.
98. Blanton RE, Levitt JL, Peterson JR, Fadale D, Sporty ML, Lee M, To D, Mormino EC, **Thompson PM**, McCracken JT, Toga AW (2004). *Gender Differences in the Left Inferior Frontal Gyrus in Normal Children*, **NeuroImage**, published online, May 2004.
99. Kochunov P, Lancaster J, **Thompson PM**, Boyer A, Hardies J, Fox PT (2000). *Validation of an Octree Regional Spatial Normalization Method for Regional Anatomical Matching*, **Human Brain Mapping** 11(3):193-206, November 2000.
100. Kochunov P, Lancaster J, **Thompson PM**, Woods RP, Hardies J, Fox PT (2001). *Regional Spatial*

- Normalization: Towards an Optimal Target*, **J. Computer Assisted Tomography** 25(5):805-816, Sep.-Oct. 2001.
- 101.Kochunov P, Lancaster J, **Thompson PM**, Toga AW, Brewer P, Hardies J, Fox PT (2002). *An Optimized Individual Target Brain in the Talairach Coordinate System*, **NeuroImage** 17(2):922-927, Oct. 2002.
- 102.Kochunov PK, Lancaster JL, Hardies J, **Thompson PM**, Woods RP, Cody JD, Hale DE, Laird A, Fox PT (2005). *Mapping structural differences of the corpus callosum in individuals with 18q deletions using targetless regional spatial normalization*, **Human Brain Mapping**, 24:325-331.
- 103.Kochunov P, Mangin JF, Coyle T, Lancaster J, **Thompson P**, Riviere D, Cointepas Y, Regis J, Schlosser A, Royall DR, Zilles K, Mazziotta J, Toga A, Fox PT (2005). Age-related morphology trends of cortical sulci. **Human Brain Mapping**, 26(3):210-20, Nov. 2005.
- 104.Mazziotta JC, Toga AW, Evans AC, Fox PT, Lancaster J, Zilles K, Woods RP, Paus T, Simpson G, Pike B, Holmes CJ, Collins DL, **Thompson PM**, MacDonald D, Schormann T, Amunts K, Palomero-Gallagher N, Parsons L, Narr KL, Kabani N, Le Goualher G, Boomsma D, Cannon T, Kawashima R, Mazoyer B (2000). *A Four-Dimensional Probabilistic Atlas of the Human Brain [Invited Paper]*, **Journal of the American Informatics Association** 8(5):401-30, Sept.-Oct. 2001.
- 105.Mazziotta JC, Toga AW, Evans AC, Fox PT, Lancaster J, Zilles K, Woods RP, Paus T, Simpson G, Pike B, Holmes CJ, Collins DL, **Thompson PM**, MacDonald D, Schormann T, Amunts K, Palomero-Gallagher N, Parsons L, Narr KL, Kabani N, Le Goualher G, Boomsma D, Cannon T, Kawashima R, Mazoyer B (2001). *A Probabilistic Atlas and Reference System for the Human Brain [Invited Paper]*, **Journal of the Royal Society** 356(1412):1293-1322, 29th August 2001.
- 106.Zeineh MM, Engel SA, **Thompson PM**, Bookheimer S (2001). *Unfolding the Human Hippocampus with High-Resolution Structural and Functional MRI [Invited Paper]*, **The New Anatomist (Anatomical Record)** 265(2):111-120, Apr. 15, 2001.
- 107.Xu M, **Thompson PM**, Toga AW (2004). *An Adaptive Level Set Segmentation on a Triangulated Mesh*, **IEEE Transactions on Medical Imaging**, 2004 Feb; 23(2):191-201.
- 108.Ballmaier M, Sowell ER, **Thompson PM**, Kumar A, Lavretsky H, Wellcome SE, DeLuca H, Toga AW (2003). *Mapping Brain Size and Cortical Surface Gray Matter Changes in Elderly Depression*, **Biological Psychiatry** 2004 Feb 15;55(4):382-9.
- 109.Gu X, Wang YL, Chan T, **Thompson PM**, Yau ST (2003). *Genus Zero Conformal Mapping and its Application to Brain Surface Mapping*, In: Taylor CJ, Noble JA (Eds.), 18th International Conference on Information Processing in Medical Imaging (IPMI2003), Lecture Notes in Computer Science volume 2732, pp.172-184, Springer-Verlag [among only 2% of papers accepted for talks].
- 110.Gu X, Wang YL, Chan TF, **Thompson PM**, Yau ST (2004). *Genus Zero Conformal Mapping and its Application to Brain Surface Mapping*, **IEEE Transactions on Medical Imaging**, 23(8):949-958, Aug. 2004.
- 111.Wang YL, Gu X, Chan T, **Thompson PM**, Yau ST (2003). *Intrinsic Brain Surface Conformal Mapping using a Variational Method*, Proc. Medical Imaging Computing and Computer Assisted Intervention (MICCAI), Toronto, Canada, November 10-14, 2003.
- 112.Lancaster JL, Kochunov PV, **Thompson PM**, Toga AW, Fox PT (2003). *Asymmetry of the Brain Surface from Deformation Field Analysis*, **Human Brain Mapping** 19(2):79-89, June 2003.

113. Levitt J, Blanton RE, Smalley S, **Thompson PM**, Guthrie D, McCracken JT, Sadoun T, Heinichen L, Toga AW (2003). *Cortical Sulcal Maps in Autism*, **Cerebral Cortex**, 13(7):728-735, July 2003.
114. Luders E, Rex DE, Narr KL, Woods RP, Jancke L, **Thompson PM**, Mazziotta JC, Toga AW (2003). *Relationships between Sulcal Asymmetries and Corpus Callosum Size: Gender and Handedness Effects*, **Cerebral Cortex** 2003 Oct;13(10):1084-93.
115. Luders E, Narr KL, **Thompson PM**, Rex DE, Jancke L, Toga AW (2004). *Gender Differences in Cortical Complexity*, **Nature Neuroscience**, 7(8):799-800, Aug. 2004.
116. Luders E, Narr KL, **Thompson PM**, Woods RP, Rex DE, Jancke L, Steinmetz H, Toga AW (2005). *Mapping Cortical Gray Matter in the Young Adult Brain: Effects of Gender*, **NeuroImage**. 2005 Jun 1;26(2):493-501. Epub 2005 Apr 12.
117. Luders E, Narr KL, Zaidel E, **Thompson PM**, Jancke L, Toga AW (2005). *Parasagittal Asymmetries of the Corpus Callosum*, **Cerebral Cortex**. 2005 May 18; [Epub ahead of print].
118. Luders E, **Thompson PM**, Narr KL, Toga AW, Jancke L, Gaser C (2005). A curvature-based approach to estimate local gyrification on the cortical surface, **NeuroImage**, 2005 Oct 10; [Epub ahead of print].
119. Luders E, Narr KL, **Thompson PM**, Rex DE, DeLuca H, Jancke L, Toga AW (2005). *Hemispheric Asymmetries in Cortical Thickness*, **Cerebral Cortex**, Nov. 2 2005 [Epub ahead of print].
120. Luders E, Narr KL, **Thompson PM**, Rex DE, Woods RP, Deluca H, Jancke L, Toga AW (2005). *Gender Effects on Cortical Thickness and the Influence of Scaling*. **Human Brain Mapping**, 2005 Aug 25; [Epub ahead of print].
121. Rasser PE, Johnston PJ, Lagopoulos J, Ward PB, Schall U, Thienel R, Bender S, Toga AW, **Thompson PM** (2005). *Functional MRI BOLD response to Tower of London performance of first-episode schizophrenia patients using cortical pattern matching*, **NeuroImage**, 2005 Jul 1;26(3):941-51. Epub 2005 Apr 15.
122. van Erp TGM, Cannon TD, Tran HL, Wobbekind AD, Huttunen M, Lönnqvist J, Kaprio J, Salonen O, Valanne L, Poutanen VP, Standertskjöld-Nordenstam CG, Toga AW, **Thompson PM** (2004). *Genetic Influences on Human Brain Morphology*, IEEE International Symposium on Biomedical Imaging, Leahy R, Roux C, eds., Arlington, VA, 2004.
123. Sowell ER, **Thompson PM**, Leonard CM, Welcome SE, Kan E, Toga AW (2004). *Longitudinal Mapping of Cortical Thickness and Brain Growth in Normal Children*, **Journal of Neuroscience**, 22;24(38):8223-31, Sept. 2004.
124. Vidal CN, Hayashi KM, Geaga JA, Sui Y, McLemore LE, Alagband Y, Giedd JN, Gochman P, Blumenthal J, Gogtay N, Nicolson R, Toga AW, Rapoport JL, **Thompson PM** (2006). *Dynamically Spreading Frontal and Cingulate Deficits Mapped in Adolescents with Schizophrenia*, **Archives of General Psychiatry**, Jan. 2006, 63(1):25-34.
125. Vidal CN, Nicolson R, DeVito TJ, Hayashi KM, Geaga JA, Drost DJ, Williamson PC, Rajakumar N, Sui Y, Dutton RA, Toga AW, **Thompson PM** (2006). *Mapping Corpus Callosum Deficits in Autistic Disorder*, **Biological Psychiatry**, 2006 Feb 3; [Epub ahead of print]
126. Ballmaier M, O'Brien JT, Burton EJ, **Thompson PM**, Rex DE, Narr KL, McKeith IG, DeLuca H, Toga AW (2004). *Comparing Gray Matter Loss Profiles between Dementia with Lewy Bodies and Alzheimer's Disease*

- using Cortical Pattern Matching: Diagnosis and Gender Effects*, **NeuroImage** 23(1):325-35, Sept. 2004.
127. Ballmaier M, Kumar A, **Thompson PM**, Narr KL, Lavretsky H, Estanol L, DeLuca H, Toga AW (2004). *Localizing Gray Matter Deficits in Late Onset Depression using Computational Cortical Pattern Matching Methods*, **Am J Psychiatry** 161(11):2091-9, Nov. 2004.
  128. Rasser PE, Johnston PJ, Ward PB, **Thompson PM** (2004). *A Deformable Brodmann Area Atlas*, IEEE International Symposium on Biomedical Imaging, Leahy R, Roux C, eds., Arlington, VA, 2004.
  129. Van Erp TGM, Cannon TD, Tran HL, Wobbekind AD, Huttunen M, Lönnqvist J, Kaprio J, Salonen O, Valanne L, Poutanen VP, Standertskjöld-Nordenstam CG, Toga AW, **Thompson PM** (2004). *Genetic Influences on Human Brain Morphology*, IEEE International Symposium on Biomedical Imaging, Leahy R, Roux C, eds., Arlington, VA, 2004.
  130. Joshi AA, Leahy RM, **Thompson PM**, Shattuck DW (2004). *Cortical Surface Parameterization by P-Harmonic Energy Minimization*, IEEE International Symposium on Biomedical Imaging, Leahy R, Roux C, eds., Arlington, VA, 2004.
  131. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2004). *Volumetric Brain Harmonic Mapping*, IEEE International Symposium on Biomedical Imaging: From Nano to Macro, Leahy R, Roux C, eds., Arlington, VA, April 2004, pp. 1275-1278.
  132. Leow A, **Thompson PM**, Protas H, Huang SC (2004). *Brain Warping with Implicit Representations*, IEEE International Symposium on Biomedical Imaging, Leahy R, Roux C, eds., Arlington, VA, 2004.
  133. Wang YL, Gu X, **Thompson PM**, Yau ST (2004). *3D Harmonic Mapping and Tetrahedral Meshing of Brain Imaging Data*, Proc. Medical Imaging Computing and Computer Assisted Intervention (MICCAI), St. Malo, France, Sept. 26-30 2004.
  134. Kindlmann GL, Weinstein DM, Lee AD, Toga AW, **Thompson PM** (2004). *Visualization of Anatomic Covariance Tensor Fields*, Proc. IEEE Engineering in Medicine and Biology Society (EMBS), San Francisco, CA, Sept. 1-5, 2004.
  135. Edwards-Lee T, Ringman J, Chung J, Werner J, Morgan A, St. George Hyslop P, **Thompson PM**, Dutton RA, Mlikotic A, Rogaeva E, Hardy J (2005). *An African American Family with Early Onset Alzheimer Disease and an APP (T714I) Mutation*, **Neurology** 64(2):377-9, Jan. 25 2005.
  136. Mega MS, Dinov ID, Mazziotta JC, Manese M, **Thompson PM**, Lindshield C, Moussai J, Tran N, Olsen K, Zoumalan CI, Woods RP, Toga AW (2005). *Automated brain tissue assessment in the elderly and demented population: Construction and validation of a sub-volume probabilistic brain atlas*. **Neuroimage**, 2005 Jul 15;26(4):1009-18.
  137. O'Hare ED, Kan E, Yoshii J, Mattson SN, Riley EP, **Thompson PM**, Toga AW, Sowell ER (2005). *Mapping cerebellar vermal morphology and cognitive correlates in prenatal alcohol exposure*. **Neuroreport**, 2005 Aug 22;16(12):1285-1290.
  138. Leow A, Yu CL, Lee SJ, Huang SC, Nicolson R, Hayashi KM, Protas H, Toga AW, **Thompson PM** (2005). *Brain Structural Mapping using a Novel Hybrid Implicit/Explicit Framework based on the Level-Set Method*, **NeuroImage**, 2005 Feb 1;24(3):910-27.
  139. Leow A, Chiang MC, Protas H, **Thompson PM**, Vese LA, Huang SC (2004). *Linear and Non-linear Geometric*

*Object Matching with Implicit Representation. International Conference on Computer Vision and Pattern Recognition, ICPR (3), pp. 710-713, 2004.*

140. Leow AD, Klunder AD, Jack CR, Toga AW, Dale AM, Bernstein MA, Britson PJ, Gunter JL, Ward CP, Whitwell JL, Borowski B, Fleisher A, Fox NC, Harvey D, Kornak J, Schuff N, Studholme C, Alexander GE, Weiner MW, **Thompson PM\***, For the ADNI Preparatory Phase Study (2006). *Longitudinal Stability of MRI for Mapping Brain Change using Tensor-Based Morphometry*, **NeuroImage**, 2006 Feb 7; [Epub ahead of print] [\*corresponding author].
141. Leow AD, Soares JC, Hayashi KM, Klunder AD, Lee AD, Bearden CE, Monkul ES, Nicoletti MA, Cerchiari AP, Trakhenbroit M, Brambilla P, Sassi RB, Mallinger AG, Toga AW, **Thompson PM** (2007). *Asymmetrical Effects of Lithium on Brain Structure Mapped in Healthy Individuals*, [submitted to **J. Neuroscience**, Nov. 19 2005; under revision].
142. London ED, Berman SM, Voytek BT, Simon SL, Mandelkern M, Monterosso J, **Thompson PM**, Brody AL, Geaga JA, Hong MS, Hayashi KM, Rawson RA, Ling W (2005). *Cerebral Metabolic Dysfunction and Impaired Vigilance in Recently Abstinent Methamphetamine Abusers*, **Biological Psychiatry**, 2005 Aug 9; [Epub ahead of print].
143. Lin JJ, Salamon N, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Toga AW, Engel J, **Thompson PM** (2005). *3D Pre-Operative Maps of Hippocampal Atrophy Predict Surgical Outcomes in Temporal Lobe Epilepsy*, **Neurology** 65: 1094-1097, Oct. 11 2005.
144. Lin JJ, Salamon N, Lee AD, Dutton RA, Geaga JA, Hayashi KM, London ED, Luders E, Toga AW, Engel J, **Thompson PM** (2006). *Reduced Neocortical Thickness & Complexity Mapped in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis*, **Cerebral Cortex**, 2006 Nov 6; [Epub ahead of print].
145. Eckert MA, Galaburda AM, Karchemskiy A, Liang A, **Thompson PM**, Dutton RA, Lee AD, Bellugi U, Korenberg JR, Mills DL, Rose F, Reiss AL (2006). *Anomalous Sylvian Fissure Morphology in Williams Syndrome*, **NeuroImage**, published online, July 28 2006.
146. Cannon TD, **Thompson PM**, van Erp TGM, Huttunen M, Lonnqvist J, Kaprio J, Toga AW (2006). *Mapping Heritability and Molecular Genetic Associations with Cortical Features Using Probabilistic Brain Atlases: Methods and Initial Applications to Schizophrenia*, **Neuroinformatics** 4(1):5-19.
147. Becker JT, Davis SW, Hayashi KM, Meltzer CC, Lopez OL, Toga AW, **Thompson PM** (2006). *3D Patterns of Hippocampal Atrophy in Mild Cognitive Impairment*, **Archives of Neurology**, 2006 Jan;63(1):97-101.
148. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Liu Y, Lopez OL, Meltzer CC, Toga AW, Becker JT (2007). *Fully-Automated Segmentation of Lateral Ventricles in AIDS Patients*, [submitted, **NeuroImage**, May 2005].
149. Carmichael OT, Aizenstein HA, Davis SW, Becker JT, **Thompson PM**, Meltzer CC, Liu Y (2005). *Atlas-Based Hippocampus Segmentation in Alzheimer's Disease & Mild Cognitive Impairment*, **Neuroimage**. 27(4):979-90, Oct. 1 2005.
150. Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2007). *Estimating Ventricular and Whole Brain Volumes in Cropped MR Images*, [submitted, **NeuroImage**, Sept. 2005].
151. Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA,

- Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Ventricular Volume and Dementia Progression in the Cardiovascular Health Study*, **Neurobiology of Aging**, 2006 Feb 24; [Epub ahead of print].
152. Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2007). *Acceleration of cerebral ventricular expansion in the Cardiovascular Health Study*, **Neurobiology of Aging**, 28(9):1316-1321, [Epub ahead of print].
153. Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2007). *Cerebral Ventricular Changes Associated With Transitions Between Normal Cognitive Function, Mild Cognitive Impairment, and Dementia*. **Alzheimer Dis Assoc Disord**. 2007 January/March; 21(1):14-24.
154. Lenroot RK, Gogtay N, Greenstein DK, Molloy E, Wallace GL, Clasen LS, Blumenthal JD, Lerch J, Zijdenbos AP, Evans AC, **Thompson PM**, Giedd JN (2007). *Sexual Dimorphism of Brain Developmental Trajectories during Childhood and Adolescence*, **NeuroImage**, published online, April 6 2007, doi: 10.1016/j.neuroimage.2007.03/053.
155. Frisoni G, Sabatoli F, Lee AD, Dutton RA, Toga AW, **Thompson PM** (2006). *In vivo neuropathology of the hippocampal formation in AD: A radial mapping MR-based study*. **NeuroImage**, 2006 Aug 1;32(1):104-110. Epub 2006 May 2.
156. Hendry J, DeVito T, Gelman N, Densmore M, Rajakumar N, Pavlosky W, Williamson P, **Thompson PM**, Drost D, Nicolson R (2005). *White Matter Abnormalities in Autism Detected Through Transverse Relaxation Time Imaging*, **NeuroImage**, 2005 Oct 5; [Epub ahead of print].
157. Bearden CE, **Thompson PM**, Dalwani M, Hayashi KM, Lee AD, Glahn DC, Nicoletti M, Trakhenbroit M, Brambilla P, Sassi RB, Mallinger AG, Frank E, Kupfer D, Soares JC (2007). *Cortical Gray Matter Density Increases in Lithium-Treated Patients with Bipolar Disorder*, **Biological Psychiatry**, April 2007.
158. Bearden CE, **Thompson PM**, Dalwani M, Hayashi KM, Lee AD, Glahn DC, Brambilla P, Sassi RB, Mallinger A, Frank E, Kupfer DJ, Nicoletti M, Soares JC (2007). *Reply: Lithium and Increased Cortical Gray Matter-More Tissue or More Water?* **Biological Psychiatry**. 2007 Aug 16; [Epub ahead of print].
159. Gogtay N, Nugent TF, Herman D, Ordonez A, Greenstein D, Hayashi KM, Classen L, Toga AW, Giedd JN, Rapoport JL, **Thompson PM** (2006). *Dynamic Mapping of Normal Human Hippocampal Development*, **Hippocampus** 2006 Jul 6; [Epub ahead of print].
160. Nicolson R, DeVito TJ, Vidal CN, Sui Y, Hayashi KM, Drost DJ, Williamson PC, Rajakumar N, Toga AW, **Thompson PM** (2006). *Detection and Mapping of Hippocampal Abnormalities in Autism*, **Psychiatry Neuroimaging Research**, Res. 2006 Nov 22;148(1):11-21. Epub 2006 Oct 23.
161. Apostolova L, Dutton RA, Dinov ID, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2006). *Conversion of Mild Cognitive Impairment to Alzheimer's Disease Is Predicted by Hippocampal Atrophy Maps*, **Archives of Neurology**, 2006; 63:693-699, May 2006.
162. Apostolova L, Dinov ID, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2006). *3D comparison of hippocampal atrophy in amnesic mild cognitive impairment and Alzheimer's disease*, **Brain**, 2006 Oct 3; [Epub ahead of print].
163. Small GW, Kepe V, Ercoli LM, Siddarth P, Bookheimer SY, Miller KJ, Lavretsky H, Burggren AC, Cole GM, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy NE, Phelps ME, Barrio JR (2006). PET of brain amyloid



- and tau in mild cognitive impairment. **New England Journal of Medicine**, 2006 Dec 21;355(25):2652-63.
- 164.Gogtay N, Ordonez A, Herman DH, Hayashi KM, Greenstein D, Vaituzis C, Clasen L, Sharp W, Giedd JN, Nugent TF, Toga AW, Leibenluft E, **Thompson PM**, Rapoport JL (2007). *Dynamic Mapping of Cortical Development Before and After the Onset of Pediatric Bipolar Illness*, **Journal of Child Psychology and Psychiatry**, 2007 Sep;48(9):852-62.
- 165.Lu LH, Leonard CM, **Thompson PM**, Kan E, Jolley J, Welcome SE, Toga AW, Sowell ER (2007). *Normal Developmental Changes in Inferior Frontal Gray Matter Are Associated with Improvement in Phonological Processing: A Longitudinal MRI Analysis*, **Cerebral Cortex**, . 2007 May;17(5):1092-9. Epub 2006 Jun 16.
- 166.Gaser C, Luders E, **Thompson PM**, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, Reiss AL (2006). *Increased Local Gyrfication Mapped in Williams Syndrome*, **NeuroImage**, 2006 Oct 15;33(1):46-54. Epub 2006 Aug 9.
- 167.Leow AD, Chiang MC, Yanovsky I, Lee AD, Lu A, Klunder AD, Becker JT, Davis SW, Toga AW, **Thompson PM** (2007). *Statistical properties of Jacobian maps and inverse-consistent deformations in non-linear image registration*, **IEEE Transactions on Medical Imaging**, May 2007.
- 168.Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). *3D Pattern of Brain Atrophy in HIV/AIDS Visualized using Tensor-Based Morphometry*, **NeuroImage**, 2006 Oct 9; [Epub ahead of print].
- 169.Sowell ER, Peterson BS, **Thompson PM**, Kan E, Yoshii J, Toga AW (2006). *Sex Differences in Cortical Thickness Mapped in 176 Healthy Individuals between 7 and 87 years*, **Cerebral Cortex**, 2006 Aug 31; 17 (7): 1550-1560 JUL 2007.
- 170.Silverman DHS, **Thompson PM** (2006). *Structural and Functional Neuroimaging: Focussing on Mild Cognitive Impairment*, **Applied Neurology**, Feb. 2006.
- 171.Burggren AC, Zeineh MM, Ekstrom AE, Braskie MN, **Thompson PM**, Small GW, Bookheimer SY (2008). *Reduced Cortical Thickness In Hippocampal Subregions among Cognitively Normal Apolipoprotein E e4 Carriers*, **NeuroImage**, 2008 Jul 15;41(4):1177-83. Epub 2008 Apr 4. [PMID: 18486492](#) [PMCID: PMC2601686](#)
- 172.Kochunov PK, **Thompson PM**, Coyle TR, Lancaster JL, Kochunov V, Royall D, Mangin JF, Rivière D, Fox PT (2007). *Relationship among Neuroimaging Markers of Cerebral Atrophy during Normal Aging*. **Human Brain Mapping**, 2007 Feb 8; [Epub ahead of print]
- 173.Kochunov P, **Thompson PM**, Lancaster JL, Bartzokis G, Smith S, Behrens T, Laird A, Fox PT (2006). *Relationship between white matter fractional anisotropy and other indices of cerebral health in normal aging: a Tract Based Spatial Statistics study of aging*, **NeuroImage**, Dec. 26 2006, [Epub ahead of print].
- 174.Fillard P, Arsigny W, Pennec X, Hayashi KM, **Thompson PM**, Ayache N (2006). *Measuring Brain Variability by Extrapolating Sparse Tensor Fields Measured on Sulcal Lines*, **NeuroImage**, Nov. 17 2006 [Epub ahead of print].
- 175.Lee AD, Leow AD, Lu A, Reiss AL, Hall S, Toga AW, **Thompson PM** (2006). *3D Pattern of Brain Abnormalities in Fragile X Syndrome Visualized using Tensor-Based Morphometry*, **NeuroImage**, 2006 Dec 7; [Epub ahead of print]. **PMCID: PMC1995408**

176. Narr KL, Woods RP, **Thompson PM**, Szeszko P, Robinson D, Dimtcheva T, Gurbani M, Toga AW, Bilder RM (2006). *Relationships between IQ and regional cortical gray matter thickness in healthy adults*, **Cerebral Cortex**, 2006 Nov 21; [Epub ahead of print].
177. Scher AI, Xu Y, Korf ESC, White LR, Scheltens P, Toga AW, **Thompson PM**, Hartley SW, Witter MP, Valentino DJ, Launer LJ (2007). *Hippocampal Shape Analysis in Alzheimer's Disease: A Population-Based Study*, **NeuroImage**, 36(1):8-18, 15 May 2007.
178. Luders E, Narr KL, Zaidel E, **Thompson PM**, Toga AW (2006). *Gender effects on callosal thickness in scaled and unscaled space*, **Neuroreport** 2006 Jul 31;17(11):1103-6.
179. Xu M, **Thompson PM**, Toga AW (2006). *Adaptive Reproducing Kernel Particle Method for Extraction of the Cortical Surface*, **IEEE Transactions on Medical Imaging**, June 2006, 25(6):1-13.
180. Narr KL, Bilder RM, Luders E, **Thompson PM**, Woods RP, Robinson D, Szeszko P, Dimtcheva T, Gurbani M, Toga AW (2007). *Asymmetries of Cortical Shape: Effects of Handedness, Sex and Schizophrenia*. **NeuroImage**, 34(3):939-48.
181. Lui LM, Wang Y, Chan TF, **Thompson PM** (2006). *Landmark constrained genus zero surface conformal mapping and its application to brain mapping research*, Special Issue of the **Journal of Applied Numerical Mathematics** for the 2005 International Conference on Scientific Computing, Editor: Zhilin Li, in press.
182. Apostolova LG, Steiner CA, Akopyan GG, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2007). *3D gray matter atrophy mapping in mild cognitive impairment and mild Alzheimer disease*, **Archives of Neurology**, October 1, 2007; 64(10): 1489 - 1495.
183. Apostolova LG, Lu P, Rogers S, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2008). *3D mapping of language networks in clinical and pre-clinical Alzheimer's disease*, **Brain and Language**, 104(1):33-41, 2007 May 5; [Epub ahead of print] [PMID: 17485107](#) [PMCID: PMC2211373](#)
184. Apostolova LG, Lu P, Rogers S, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2006). *3D mapping of Mini-mental State Examination performance in clinical and pre-clinical Alzheimer's disease*, **Alzheimer Disease & Associated Disorders**, 2006 October/December;20(4):224-231.
185. Nugent TF, Shaw P, Gogtay N, Ordonez A, **Thompson PM**, Giedd JN, Sharp W, Jung D, Rapoport JL (2011). *Increased Hippocampal Volume and Clinical Improvement in Attention Deficit Hyperactivity Disorder*, submitted to **Archives of General Psychiatry**, 2011.
186. Nugent TF, Herman DH, Ordonez A, Greenstein D, Hayashi KM, Lenane M, Clasen L, Jung D, Toga AW, Giedd JN, Rapoport JL, **Thompson PM**, Gogtay N (2007). *Dynamic Mapping of Hippocampal Development in Childhood Onset Schizophrenia*, **Schizophrenia Research**, 2007 Feb;90(1-3):62-70. Epub 2006 Dec 11. [PMID: 17161938](#)
187. Wang YL, Lui LM, Gu X, Hayashi KM, Chan TF, Toga AW, **Thompson PM**, Yau ST (2007). *Brain Surface Parameterization using Riemann Surface Structure*, **IEEE Transactions on Medical Imaging**, 26(2): 853-865, June 2007.
188. Shi YG, **Thompson PM**, Dinov ID, Osher SJ, Toga AW (2007). *Direct Cortical Mapping via Solving Partial Differential Equations on Implicit Surfaces*, **Medical Image Analysis** 11 (3): 207-223 JUN 2007.

189. Gee JC, **Thompson PM** (2007). *Guest Editorial: Special Issue on Computational Neuroanatomy*, **IEEE Transactions on Medical Imaging**, 26(4): 425–426. Special Issue on Computational Neuroanatomy (eds.. Gee JC, **Thompson PM**), April 2007.
190. Tu Z, Narr KL, Dollar P, Dinov ID, **Thompson PM**, Toga AW (2007). *Brain Anatomical Structure Segmentation by Hybrid Discriminative/Generative Models*, **IEEE Transactions on Medical Imaging**, Special Issue on Computational Neuroanatomy (eds.. Gee JC, **Thompson PM**), 2008 Apr;27(4):495-508. PMID: 18390346 NIHMSID# 132698
191. Tu Z, Zheng S, Yuille AL, Reiss AL, Dutton RA, Lee AD, Galaburda AM, Dinov ID, **Thompson PM**, Toga AW (2007). *Automated Extraction of the Cortical Sulci Based on a Supervised Learning Approach*, **IEEE Transactions on Medical Imaging**, Special Issue on Computational Neuroanatomy (eds.. Gee JC, **Thompson PM**), April 2007.
192. Chiang MC, Leow AD, Dutton RA, Barysheva M, Rose S, McMahon KL, de Zubicaray GI, Toga AW, **Thompson PM** (2008). *Fluid Registration of Diffusion Tensor Images Using Information Theory*, **IEEE Transactions on Medical Imaging**, 2008 Apr;27(4):442-56. PMID: 18390342 NIHMSID# 132700
193. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Surface-Constrained Volumetric Brain Registration Using Harmonic Mappings*, **IEEE Transactions on Medical Imaging**, 26(12): 1657-1669, Dec. 2007.
194. Lepore N, Brun CC, Chou YY, Chiang MC, Dutton RA, Hayashi KM, Lu A, Lopez OL, Aizenstein HJ, Toga AW, Becker JT, **Thompson PM** (2008). *Generalized Tensor-Based Morphometry of HIV/AIDS Using Multivariate Statistics on Deformation Tensors*, **IEEE Transactions on Medical Imaging**, 27(1):129-141. PMID: 18270068 NIHMSID# 132705
195. Tu Z, Narr KL, Dinov ID, **Thompson PM**, Toga AW (2006). *Brain Anatomical Structure Segmentation by Hybrid Discriminative/Generative Models*, Proc. Neural Information Processing Systems Annual Conference (NIPS2006), Vancouver, BC, December 4-7, 2006.
196. Sun D, Velakoulis D, Yung A, McGorry PD, Wood SJ, Phillips L, van Erp TGM, **Thompson PM**, Toga AW, Cannon TD, Pantelis C (2009). *Progressive Brain Structural Changes Mapped as Psychosis Develops in 'At Risk' Individuals*, **Schizophrenia Research**, 2009 Mar;108(1-3):85-92. Epub 2009 Jan 12.
197. Narayan VM, Narr KL, Kumari V, Woods RP, Toga AW, **Thompson PM**, Sharma T (2007). *Regional Cortical Thinning in Anti-social Personality Disorder and Schizophrenia*, **American Journal of Psychiatry**, 164:1418-1427, September 2007.
198. Luders E, Di Paola M, Tomaiuolo F, **Thompson PM**, Toga AW, Vicari S, Petrides M, Caltagirone C (2007). *Callosal Morphology In Williams Syndrome – A New Evaluation Of Shape And Thickness*, **Neuroreport**, 18(3):203-207, Feb. 2007.
199. Minnerop M, Luders E, Specht K, Quentmeier W, Schneider-Gold C, Schröder R, **Thompson PM**, Toga AW, Klockgether T, Kornblum C (2008). *Gray and white matter loss along cerebral midline structures in myotonic dystrophy type 2*, **Journal of Neurology**, 2008 Dec;255(12):1904-9. Epub 2008 Sep 3. NIHMSID #132707
200. Frisoni GB, Pievani M, Testa C, Sabattoli F, Bresciani L, Miniussi M, Bonetti M, Beltramello A, Hayashi KM, Toga AW, **Thompson PM** (2007). *The topography of gray matter involvement in early and late-onset*

*Alzheimer's disease*, **Brain**, 130: 720-730 Part 3 MAR 2007.

201. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Glahn D, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2007). *Three-dimensional mapping of hippocampal anatomy in unmedicated and lithium-treated patients with bipolar disorder*, **Neuropsychopharmacology**, 2007 Aug 8; [Epub ahead of print].
202. Bearden CE, van Erp TGM, Dutton RA, Tran H, Zimmerman L, Geaga JA, Simon TJ, Glahn DG, Cannon TD, Emanuel BS, Toga AW, **Thompson PM** (2006). *Mapping Cortical Thickness in Children with 22q11.2 Deletions*, **Cerebral Cortex**, Oct 20 2006 [epub ahead of print].
203. Rüsç N, Luders E, Zahn R, Lieb K, Ebert D, **Thompson PM**, Toga AW, Tebartz van Elst L (2007). *Corpus callosum abnormalities in women with borderline personality disorder and comorbid attention-deficit hyperactivity disorder*, **Journal of Psychiatry & Neuroscience**, 2007; 32(6):417-422.
204. Foland LC, Altshuler LL, Bookheimer SY, Eisenberger NI, Townsend J, **Thompson PM** (2007). *Evidence for Deficient modulation of amygdala response by prefrontal cortex in bipolar mania*, **Psychiatry Research: Neuroimaging**. 2007 Dec 4. PMID: PMC2410029
205. Apostolova LG, Akopyan GG, Partiali N, Steiner CA, Dutton RA, Hayashi KM, Dinov ID, Toga AW, Cummings JL, **Thompson PM** (2007). *Structural correlates of apathy in Alzheimer's disease*, **Dementia and Geriatric Cognitive Disorders**, 2007;24:91-97. Published online on June 06 2007- DOI: 10.1159/000103914.
206. Hua X, Leow AD, Levitt JG, Caplan R, **Thompson PM**, Toga AW (2007). *Detecting Brain Growth Patterns in Normal Children using Tensor-Based Morphometry*, **Human Brain Mapping**, December 6, 2007.
207. Jack CR, Bernstein MA, Fox NC, **Thompson PM**, Alexander G, Harvey D, Borowski BJ, Britson PJ, Whitwell JL, Ward C, Dale AM, Felmlee JP, Gunter J, Hill DLG, Killiany R, Schuff N, Fox-Bosetti S, Lin C, Studholme C, DeCarli C, Krueger G, Ward HA, Metzger GJ, Scott KT, Mallozzi R, Blezek D, Levy J, Debbs JP, Fleisher AS, Albert M, Green R, Bartzokis G, Glover GH, Mugler JP III, Weiner MW, For the ADNI Study (2008). *The Alzheimer's Disease Neuroimaging Initiative (ADNI): The MR Imaging Protocol*, **Journal of MRI**, 2008 Apr;27(4):685-91.
208. Sowell ER, Mattson SN, Kan E, **Thompson PM**, Riley E, Toga AW (2008). *Abnormal Cortical Thickness and Brain-Behavior Correlation Patterns in Individuals with Heavy Prenatal Alcohol Exposure*, **Cerebral Cortex**, 2008 18(1):136-144; doi:10.1093/cercor/bhm039. PMID: 17443018 NIHMSID #132979
209. Tosun D, Reiss AL, Lee AD, Dutton RA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2011). *Use of Cortical Curvature Features to Analyze Local and Regional Cortical Folding Complexity*, to be submitted to **NeuroImage**, Jan. 2009.
210. Vidal CN, Nicolson R, Boire JY, Barra V, DeVito TJ, Hayashi KM, Geaga JA, Drost DJ, Williamson PC, Rajakumar N, Toga AW, **Thompson PM** (2008). *Three-Dimensional Mapping of the Lateral Ventricles in Autism*, **Psychiatry Research: Neuroimaging**, 2008 Jul 15;163(2):106-15. Epub 2008 May 27. PMID: 18502618 NIHMSID #132981
211. Shi Y, **Thompson PM**, de Zubicaray GI, Rose SE, Tu Z, Dinov AD, Toga AW (2007). *Direct Mapping of Hippocampal Surfaces with Intrinsic Shape Context*, **NeuroImage**, 2007 Sep 1;37(3):792-807. Epub 2007 May 23. NIHMSID #132980
212. Toga AW, **Thompson PM** (2007). *What is Where and Why it is Important*, **NeuroImage**, 37(4):1045-1049.

[Peer-Reviewed Invited Commentary on a paper by Devlin J, Poldrack R ‘*In Praise of Tedious Anatomy*’].

213. Lu LH, Leonard CM, Dinov ID, **Thompson PM**, Kan E, Jolley J, Welcome SE, Toga AW, Sowell ER (2011). *Cortical thickness change relates to phonological awareness and rapid naming improvement in children*, to be submitted to **NeuroImage**.
214. Bearden CE, van Erp TGM, **Thompson PM**, Toga AW, Cannon TD (2007). *Cortical mapping of genotype-phenotype relationships in schizophrenia*, **Human Brain Mapping**, 28 (6): 519-532 JUN 2007, Special Issue on Genomic Imaging, published online, April 17 2007.
215. Glahn DC, **Thompson PM**, Blangero J (2007). *Neuroimaging Endophenotypes: Strategies for Finding Genes Influencing Brain Structure*, **Human Brain Mapping**, Special Issue on Genomic Imaging, published online, April 17 2007.
216. Glahn DC, Paus T, **Thompson PM** (2007). *Imaging Genomics: Mapping the Influence of Genetics on Brain Structure and Function*, **Human Brain Mapping**, Special Issue on Genomic Imaging, published online, April 17 2007.
217. **Thompson PM**, Bartzokis G, Hayashi KM, Klunder AD, Lu PH, Edwards N, Hong MS, Yu M, Geaga JA, Toga AW, Charles C, Perkins DO, McEvoy J, Hamer RM, Tohen M, Tollefson GD, Lieberman JA, for the HGDH Study Group (2009). *Time-Lapse Mapping Reveals Different Disease Trajectories in Schizophrenia depending on Antipsychotic Treatment*, **Cerebral Cortex**, 19: 1107-1123, [PMID: 18842668](#) NIHMSID #132982
218. Bartzokis G, Lu PH, Tingus K, Mendez MF, Richard A, Peters DG, Oluwadara B, Barrall KA, Finn JP, Villablanca P, **Thompson PM**, Mintz J (2008). *Lifespan trajectories of myelin integrity and maximum motor speed*, **Neurobiology of Aging**, 2008 Oct 14. [Epub ahead of print]. [PMID: 18926601](#) NIHMSID #132984
219. Gothelf D, Furfaro JA, Eckert MA, Hall SS, O’Hara R, Erba HW, Ringel J, Hayashi KM, Patnaik S, Golianu B, Kraemer HC, **Thompson PM**, Piven J, Reiss AL (2008). *Neuroanatomy of Fragile X Syndrome is Associated with Aberrant Behavior and FMRP*, **Annals of Neurology**, 2008 Jan;63(1):40-51. [PMID: 17932962](#) NIHMSID #132986
220. Lui LM, Wang YL, **Thompson PM**, Chan TF (2011). *Solving PDEs and Variational Problems on Manifolds with Global Conformal Parameterization*, **IEEE Pattern Analysis and Machine Intelligence (PAMI)**, submitted.
221. Butters MA, Aizenstein HJ, Hayashi KM, Meltzer CC, Seaman J, Reynolds CF, Toga AW, **Thompson PM**, Becker JT, for the IMAGE Research Group (2008). *Three-dimensional mapping of the caudate nucleus in late-life depression*, **American Journal of Geriatric Psychiatry**. 2008 Sep 12. [Epub ahead of print]. [PMID: 18790876](#) NIHMSID #132987
222. Boyes R, Gunter J, Frost C, Janke AL, Yeatman T, Hill DLG, Bernstein M, **Thompson PM**, Weiner MW, Schuff N, Alexander G, Killiany RJ, DeCarli C, Jack CR, Fox NC (2008). Intensity non-uniformity correction using N3 on 3-T scanners with multichannel phased array coils. **NeuroImage**, 2008 Feb 15;39(4):1752-1762. Epub 2007 Oct 30.
223. Chiang MC, Reiss AL, Lee AD, Bellugi U, Galaburda AM, Korenberg J, Mills DL, Toga AW, **Thompson PM** (2007). *3D Pattern of Brain Abnormalities in Williams Syndrome Visualized using Tensor-Based Morphometry*, **NeuroImage**, 2007 Apr 20; [Epub ahead of print].

224. Weber B, Lüders E, Faber J, Richter S, Quesada C, Urbach H, **Thompson PM**, Toga AW, Elger CE, Helmstaeder C (2007). *Distinct regional atrophy in the corpus callosum of patients with temporal lobe epilepsy*, **Brain**, 130:3149-3154, published online August 30 2007.
225. Lui LM, Wang YL, Chan TF, **Thompson PM** (2007). *Brain Anatomical Feature Detection by Solving Partial Differential Equations on a General Manifold*, **Journal of Discrete and Continuous Dynamical Systems-Series B**, 7(3):605-618, May 2007.
226. Lui LM, Wang YL, Chan TF, **Thompson PM** (2008). *Landmark Constrained Genus Zero Surface Conformal Mapping and its Application to Brain Mapping*, **Applied Numerical Mathematics** 57, 2007, pp. 847-858.
227. Tiihonen J, Rossi R, Laakso MP, Hodgins S, Testa C, Perez J, Repo-Tiihonen E, Vaurio O, Soininen H, Aronen HJ, Könönen M, **Thompson PM**, Frisoni GB (2007). *Brain Anatomy of Persistent Violent Offenders: More Rather than Less*, **Psychiatry Research Neuroimaging**, Psychiatry Res. 2008 Aug 30;163(3):201-12. Epub 2008 Jul 26. [PMID: 18662866](#)
228. Ballmaier M, Narr KL, Toga AW, Elderkin-Thompson V, **Thompson PM**, Hamilton L, Haroon E, Pham D, Heinz A, Kumar A (2007). *Hippocampal morphology distinguishes late-onset from early-onset elderly depression*, **American Journal of Psychiatry**, Am J Psychiatry. 2008 Feb;165(2):229-37. Epub 2007 Nov 6.
229. Apostolova L, **Thompson PM** (2007). *Brain Mapping as a Tool to Study Neurodegeneration*, Special Issue of **Neurotherapeutics**, [Review], July 2007. [PMCID: PMC2634605](#)
230. Ballmaier M, Kumar A, Elderkin-Thompson V, Narr KL, Luders E, **Thompson PM**, Hojatkashani C, Pham D, Heinz A, Toga AW (2007). *Mapping callosal morphology in early- and late-onset elderly depression: An Index of Distinct Changes in Cortical Connectivity*, **Neuropsychopharmacology**. 2007 Aug 22; [Epub ahead of print].
231. Luders E, Narr KL, Bilder RM, **Thompson PM**, Szeszko PR, Hamilton L, Toga AW (2007). *Positive Correlations between Corpus Callosum Thickness and Intelligence*, **NeuroImage**. 2007 Oct 1;37(4):1457-64. Epub 2007 Jul 12.
232. Barnes J, Bartlett JW, van de Pol L, Loy CT, Scahill RI, Frost C, **Thompson PM**, Fox NC (2008). *A meta-analysis of hippocampal atrophy rates in Alzheimer's disease*, **Neurobiology of Aging**, **Neurobiol Aging**. 2008 Mar 15. [Epub ahead of print]. [PMID: 18346820](#) [NIHMSID #132992](#)
233. Chou YY, Leporé N, de Zubicaray GI, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2008). *Automated Ventricular Mapping with Multi-Atlas Fluid Image Alignment Reveals Genetic Effects in Alzheimer's Disease*, **NeuroImage**, published online, Feb. 2008. [PMID: 18222096](#) [NIHMSID #132995](#)
234. Apostolova L, **Thompson PM** (2007). *Mapping Progressive Brain Structural Changes in Early Alzheimer's Disease and Mild Cognitive Impairment*, Special Issue of **Neuropsychologia**, ed. Gael Chetelat, 2008;46(6):1597-612. Epub 2007 Dec 14. Review. [PMID: 18395760](#) [NIHMSID #133297](#)
235. Hamilton LS, Narr KL, Luders E, Szeszko PR, **Thompson PM**, Bilder RM, Toga AW (2007). *Asymmetries of cortical thickness: Effects of handedness, sex, and schizophrenia*, **NeuroReport**, 2007 Sep 17;18(14):1427-1431.

236. Lu LH, Dapretto M, O'Hare ED, Kan E, McCourt ST, **Thompson PM**, Toga AW, Bookheimer SY, Sowell ER. (2009). *Relationships between Brain Activation and Brain Structure in Normally Developing Children*, **Cerebral Cortex**. 2009 Feb 24. [Epub ahead of print] [PMID: 19240138](#)
237. Bearden CE, Soares JC, Klunder AD, Nicoletti M, Diershke N, Hayashi KM, Brambilla P, Sassi RB, Axelson D, Ryan N, Birmaher B, **Thompson PM** (2008). *Three-dimensional mapping of hippocampal anatomy in adolescents with bipolar disorder*, **Journal of the American Academy of Child and Adolescent Psychiatry**, 2008 Mar 19; [Epub ahead of print]. [PMID: 18356767](#)                      NIHMSID #133300
238. Xu Y, Valentino DJ, Scher AI, Dinov ID, White LR, **Thompson PM**, Launer LJ, Toga AW (2008). *Age effects on hippocampal structural changes in old men: The HAAS*, **Neuroimage**, 40(3):1003-15, April 15 2008. [PMID: 18280181](#)                      NIHMSID #133301
239. Morra JH, Tu Z, Apostolova LG, Green A, Toga AW, **Thompson PM** (2010). *Comparison of Adaboost and Support Vector Machines for Detecting Alzheimer's Disease through Automated Hippocampal Segmentation*, **IEEE Transactions on Medical Imaging**, 2010 Jan;29(1):30-43. Epub 2009 May 19.
240. Sun D, Stuart GW, Jenkinson M, Wood SJ, McGorry PD, Velakoulis D, van Erp TG, **Thompson PM**, Toga AW, Smith DJ, Cannon TD, Pantelis C. (2008). *Brain surface contraction mapped in first-episode schizophrenia – a longitudinal magnetic resonance imaging study*, **Molecular Psychiatry**, 2008 Jul 8. [Epub ahead of print]. [PMID: 18607377](#)                      NIHMSID #133302
241. Sabattoli F, Boccardi M, Galluzzi S, Treves A, **Thompson PM**, Frisoni GB (2008). *Hippocampal shape differences in dementia with Lewy bodies*, **NeuroImage**, 2008 Jul 1;41(3):699-705. Epub 2008 Mar 14. [PMID: 18467130](#)
242. **Thompson PM**, Apostolova LG (2007). *Computational Anatomical Methods as Applied to Aging and Dementia*, **British Journal of Radiology**, 2007 Dec;80 Spec No 2:S78-91. Review. [PMCID: PMC2556222](#)
243. Hua X, Leow AD, Lee S, Klunder AD, Toga AW, Lepore N, Chou YY, Brun C, Chiang MC, Barysheva M, Jack CR, Bernstein MA, Britson PJ, Ward CP, Whitwell JL, Borowski B, Fleisher A, Fox NC, Boyes R, Barnes J, Harvey D, Kornak J, Schuff N, Boreta L, Alexander GE, Weiner MW, **Thompson PM\***, For the ADNI Study (2008). *3D Characterization of Brain Atrophy in Alzheimer's Disease and Mild Cognitive Impairment using Tensor-based Morphometry*, **NeuroImage**, published online, Feb. 21 2008. [PMCID: PMC2556222](#)
244. Bearden CE, van Erp TGM, Dutton RA, Zimmerman L, Simon TJ, Glahn DG, Cannon TD, Emanuel BS, Toga AW, **Thompson PM** (2009). *Alterations in Midline Cortical Thickness and Gyrification Patterns Mapped in Children with 22q11.2 Deletions*, **Cerebral Cortex, Cereb Cortex**. 2009 Jan;19(1):115-26. [PMID: 18483006](#)                      NIHMSID #133308
245. Luders E, Narr KL, Bilder RM, **Thompson PM**, Szeszko P, Hamilton L, Toga AW, Gaser C (2008). *Mapping the Relationship between Cortical Convolution and Intelligence: Gender Effects*. **Cerebral Cortex** 2008 18(9):2019-2026                      [PMID: 18089578](#)
246. Leporé N, Shi Y, Leporé F, Fortin M, Voss P, Chou YY, Lord C, Lassonde M, Dinov ID, Toga AW, **Thompson PM** (2009). *Pattern of Hippocampal Shape and Volume Differences in Blind Subjects*, **NeuroImage**, 46(4):949-957, July 15 2009.
247. Sowell ER, Kan E, Yoshii J, **Thompson PM**, Bansal R, Xu D, Toga AW, Peterson BS (2008). *Thinning of Sensorimotor Cortices in Children with Tourette Syndrome*, **Nature Neuroscience**, Nat Neurosci. 2008 Jun;11(6):637-9. Epub 2008 May 18. [PMID: 18488025](#)                      [PMCID: PMC2605107](#)

248. Small GW, Bookheimer SY, **Thompson PM**, Cole GM, Huang SC, Kepe V, Barrio JR (2008). *Current and Future Uses of Neuroimaging for Cognitively Impaired Patients*, **Lancet Neurology** 7:161-172. [PMID: 18207114](#) NIHMSID #133312
249. Bearden CE, Glahn DC, Lee AD, Chiang MC, van Erp TGM, Cannon TD, Reiss AL, Toga AW, **Thompson PM** (2008). *Neural Phenotypes of Common and Rare Genetic Variants*, **Biological Psychiatry**, Special Issue on Genetics and Imaging in Neuroscience, epub online, Feb. 23 2008. [PMID: 18395317](#) NIHMSID #133635
250. Apostolova LG, **Thompson PM**, Rogers SA, Dinov ID, Zoumalan C, Steiner CA, Siu E, Green A, Small GW, Toga AW, Cummings JL, Phelps ME, Silverman DH (2010). *Surface Feature-guided Mapping of Longitudinal FDG-PET Changes in Nondemented Elderly*, **Molecular Imaging & Biology**, 12 Issue: 2 Pages: 218-224 Published: APR 2010.
251. Foland LC, Altshuler LL, Sugar CA, Leow AD, Townsend J, Narr KL, Toga AW, **Thompson PM** (2008). *Increased volume of the amygdala and hippocampus in bipolar subjects treated with lithium*, **NeuroReport**, 19(2):221-224.
252. Shi Y, **Thompson PM**, Dinov ID, Toga AW (2008). *Hamilton-Jacobi Skeleton on Cortical Surfaces*, **IEEE Transactions on Medical Imaging**, 2008 May;27(5):664-73. [PMID: 18450539](#) NIHMSID #133641
253. Shi Y, Tu Z, Reiss AL, Dutton RA, Lee AD, Galaburda AM, Dinov ID, **Thompson PM**, Toga AW (2007). *Joint Sulci Detection on Cortical Surfaces with Graphical Models and Boosted Priors*, **IEEE Transactions on Medical Imaging**, 2009 Mar;28(3):361-73. [PMID: 19244008](#) NIHMSID #133646
254. Yanovsky I, Leow AD, Lee S, Osher SJ, **Thompson PM** (2009). *Asymmetric and Symmetric Unbiased Image Registration: Statistical Assessment of Performance*, **Medical Image Analysis**, 2009 Oct;13(5):679-700. Epub 2009 Jun 24.
255. Fillard P, Pennec X, **Thompson PM**, Ayache N (2013). *Evaluating Brain Anatomical Correlations via Canonical Correlation Analysis on Sulcal Lines*, **NeuroImage**, submitted, Dec 18 2007, under revision, 2013.
256. Small GW, Siddarth P, Burggren AC, Kepe V, Ercoli LM, Miller KJ, Lavretsky H, **Thompson PM**, Cole GM, Huang SC, Phelps ME, Bookheimer SY, Barrio JR (2008). *Influence of Cognitive Status, Age, and ApoE-4 Genetic Risk on Brain FDDNP-PET Binding in Non-Demented Persons*, **Archives of General Psychiatry**, Arch Gen Psychiatry. 2009 Jan;66(1):81-7.
257. Boccardi M, Ganzola R, Sabattoli F, Laakso M, Repo-Tiihonen E, Vaurio O, Aronen HJ, **Thompson PM**, Frisoni GB, Tiihonen J (2010). *Abnormal hippocampal shape in offenders with psychopathy*, **Hum Brain Mapp**. Volume: 31 Issue: 3 Pages: 438-447 Published: MAR 2010.
258. Blokland GAM, McMahon KL, Hoffman J, Zhu G, Meredith M, Martin NG, **Thompson PM**, de Zubicaray GI, Wright MJ (2008). *Quantifying the heritability of task-related brain activation and performance during the N-back working memory task: a twin fMRI study*, **Biological Psychiatry**, 2008 Sep;79(1):70-9. Epub 2008 Mar 16. [PMID: 18423837](#) NIHMSID #46110
259. Ogren JA, Bragin A, Wilson CL, Hoftman GD, Lin JJ, Dutton RA, Fields TA, Toga AW, **Thompson PM**, Engel JP, Staba RJ (2009). *3D hippocampal atrophy maps distinguish two common temporal lobe onset seizure patterns*, **Epilepsia**, 50(6):1361-1370, June 2009. [PMID: 19054395](#) NIHMSID #133654
260. Harris P, Alcantara D, Amenta N, Lopez OL, Eiriksdóttir G, Sigurdsson S, Gudnason V, **Thompson PM**, Launer L, Carmichael OT (2008). *Localized Measures of Callosal Atrophy Are Associated with Late-Life Hypertension:*



- AGES-Reykjavik Study, **NeuroImage**, 2008 Jul 18. [Epub ahead of print]. [PMID: 18692143](#) NIHMSID #78541
- 261.Luders E, Narr KL, Hamilton LS, Phillips OR, **Thompson PM**, Valle JS, Del'Homme M, Strickland T, Toga AW, McCracken JT, Levitt JG (2008). *Decreased Callosal Thickness in Attention Deficit / Hyperactivity Disorder (ADHD)*, **Biological Psychiatry**, 2008 Oct 6 [Epub ahead of print]. [PMID: 18842255](#) NIHMSID #133661
- 262.Durrleman S, Pennec X, Trouve A, **Thompson PM**, Ayache N (2008). *Inferring Brain Variability from Diffeomorphic Deformations of Currents: An Integrative Approach*, **Medical Image Analysis**, 2008 Oct;12(5):626-37. Epub 2008 Jun 21. [PMID: 18658005](#) NIHMSID #67782
- 263.Leow AD, Zhu S, Zhan L, McMahon K, de Zubicaray GI, Meredith M, Wright M, Toga AW, **Thompson PM** (2009). *The Tensor Distribution Function*, **Magnetic Resonance in Medicine**, Magn Reson Med. 2009 Jan. 18;61(1):205-214. [Epub ahead of print].
- 264.Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2009). *A Parameterization-based Numerical Method for Isotropic and Anisotropic Diffusion Smoothing on Non-Flat Surfaces*, **Transactions on Image Processing**, 2009 Jun;18(6):1358-65. Epub 2009 May 5. [PMID: 19423447](#) NIHMSID #133670
- 265.Rogers J, Kochunov P, Zilles K, Shelledy W, Lancaster J, **Thompson PM**, Duggirala R, Blangero J, Fox PT, Glahn D (2010). *On the genetic architecture of cortical folding and brain volume in primates*, **NeuroImage**, 1103-1108, Nov 15 2010.
- 266.Frisoni GB, Ganzola R, Canu E, Rüb U, Pizzini FB, Alessandrini F, Locatelli G, Beltramello A, Caltagirone C, **Thompson PM** (2009). *Mapping local structural hippocampal changes in Alzheimer's disease and normal aging with MRI at 3 Tesla*, **Brain**, 131:3266-3276, Jan. 2009.
- 267.Frisoni GB, Prestia A, Rasser PE, Bonetti M, **Thompson PM** (2009). *In vivo mapping of incremental cortical atrophy from incipient to overt Alzheimer's disease*, **Journal of Neurology**, 256(6):916-924, June 2009. [PMID: 19252794](#)
- 268.de Zubicaray GI, Chiang MC, McMahon KL, Shattuck DW, Toga AW, Martin NG, Wright MJ, **Thompson PM** (2008). *Meeting the challenges of neuroimaging genetics*, **Brain Imaging and Behavior**, Special Issue (ed.: J.D. van Horn et al.), published online, August 2008.
- 269.Michie PT, Budd TW, Fulham WR, Hughes ME, Jamadar, S, Johnston P, Karayanidis F, Matthews N, Rasser PE, Schall U, **Thompson PM**, Todd J, Ward PB (2008). *The potential for new understandings of normal and abnormal cognition by integration of neuroimaging and behavioral data: Not an exercise in Bringing Coals to Newcastle* **Brain Imaging and Behavior**, Special Issue (ed.: J.D. van Horn et al.), published online, Dec. 2008.
- 270.Hua X, Leow AD, Parikshak N, Lee S, Chiang MC, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2008). *Tensor-Based Morphometry as a Neuroimaging Biomarker for Alzheimer's Disease: An MRI Study of 676 AD, MCI, and Normal Subjects*, **NeuroImage**, 2008 Jul 22. [Epub ahead of print]. [PMID: 18691658](#) NIHMSID #133676
- 271.Leow AD, Yanovsky I, Parikshak N, Hua X, Lee S, Toga AW, Jack CR, Bernstein MA, Britson PJ, Ward CP, Borowski B, Trojanowski JQ, Shaw L, Fleisher AS, Harvey D, Kornak J, Schuff N, Alexander GE, Weiner MW, **Thompson PM** (2009). *Alzheimer's Disease Neuroimaging Initiative: A One-year Follow up Study Correlating Degenerative Rates, Biomarkers and Cognition*, **NeuroImage**, 2009 Apr 15;45(3):645-55. [PMID: 19457405](#) NIHMSID #133677

272. Chou YY, Lepore N, Chiang MC, Avedissian C, Barysheva M, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Mapping Genetic Influences on Ventricular Structure in Twins*, **NeuroImage**, 2009 Feb 15;44(4):1312-23. Epub 2008 Nov 7. [PMID: 19041405](#)  
NIHMSID #133683
273. Luders E, Narr KL, **Thompson PM**, Toga AW (2009). *Neuroanatomical Correlates of Intelligence*, **Intelligence**, 2009 Mar 1;37(2):156-163. doi:10.1016/j.intell.2008.07.002
274. Shattuck DW, Joshi AA, Pantazis D, Kan E, Dutton RA, Sowell ER, **Thompson PM**, Toga AW, Leahy RM (2009). *Semi-automated technique for delineation of landmarks on models of the cerebral cortex*, **Journal of Neuroscience Methods**. 2009 Apr 15;178(2):385-92. Epub 2008 Dec 31. doi:10.1016/j.jneumeth.2008.12.025. NIHMSID #133687
275. **Thompson PM**, Klunder AD, Chiang MC, Monterosso J, Toga AW, Ling W, London ED (2009). *Abnormal Brain Structure and Depression Severity in Methamphetamine Abusers*, submitted to **Cerebral Cortex**, May 2008.
276. Narayan VM, Phillips OR, Narr KL, **Thompson PM**, Toga AW, Szeszko PR (2008). *Greater regional cortical thickness in obsessive compulsive disorder*, **NeuroReport**, 2008 Oct 8;19(15):1551-5. [PMID: 18797315](#)  
NIHMSID #133689
277. Narr KL, Szeszko PR, Lencz T, Woods RP, Hamilton LS, Phillips O, Robinson D, Burdick KE, DeRosse P, Kucherlapati R, **Thompson PM**, Toga AW, Malhotra AK, Bilder RM (2008). *DTNBP1 is associated with imaging phenotypes in schizophrenia*, **Human Brain Mapping**, 2009 May 15;30(11):3783-3794. [Epub ahead of print].
278. Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Hua X, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2008). *Validation of a Fully Automated 3D Hippocampal Segmentation Method Using Subjects with Alzheimer's Disease, Mild Cognitive Impairment, and Elderly Controls*, **NeuroImage**, 2008 Jul 16. [Epub ahead of print].
279. Aganj I, Sapiro G, Parikshak N, Madsen SK, **Thompson PM** (2009). *Measurement of Cortical Thickness from MRI by Minimum Line Integrals on Soft-Classified Tissue*, **Human Brain Mapping**, 2009 Feb 13. [Epub ahead of print].
280. Gogtay N\*, Lu A\*, Leow AD, Klunder AD, Lee AD, Chavez A, Greenstein D, Giedd JN, Toga AW, Rapoport JL, **Thompson PM** (2008). *3D Growth Pattern Abnormalities Visualized in Childhood-Onset Schizophrenia using Tensor-Based Morphometry*, **Proceedings of the National Academy of Sciences**, published online, August 28 2008. [\*equal contribution]
281. Eckstein I, Shattuck DW, Stein JL, McMahon K, de Zubicaray GI, Wright MJ, **Thompson PM**, Toga AW (2009). *Active Fibers: Matching Deformable Tract Templates to Diffusion Tensor Images*, **NeuroImage**, 2009 Aug;47 Suppl 2:T82-9. Epub 2009 Feb 11.
282. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2009). *Genetics of Brain Fiber Architecture and Intelligence*, **Journal of Neuroscience**, 2009 Feb 18;29(7):2212-24.. [PMID: 19228974](#) NIHMSID #133690
283. Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Hua X, Toga AW, Jack CR,

- Schuff N, Weiner MW, **Thompson PM** (2009). *Automated 3D Mapping of Hippocampal Atrophy and its Clinical Correlates in 400 Subjects with Alzheimer's Disease, Mild Cognitive Impairment, and Elderly Controls*, **Human Brain Mapping**, 2009 Jan 26. [Epub ahead of print]
- 284.Schuff N, Woerner N, Boreta L, Kornfeld T, Shaw L, Trojanowski JQ, **Thompson PM**, Jack CR, Weiner MW and the ADNI Consortium (2009). *MRI of hippocampal volume loss in early Alzheimer's disease in relation to ApoE genotype and biomarkers*. **Brain**, 132:1067-1077, April 2009. Epub, 2009 Feb 27. [Epub ahead of print].
- 285.Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2008). *Automated Mapping of Hippocampal Atrophy in 1-Year Repeat MRI Data in 490 Subjects with Alzheimer's Disease, Mild Cognitive Impairment, and Elderly Controls*, **NeuroImage**, Special Issue on Mathematics in Brain Imaging, ed. **Thompson PM**, Miller MI, Poldrack R, Nichols T, et al., published online, Nov. 8 2008. [PMID: 19041724](#)
- 286.Klein A, Andersson J, Ardekani BA, Ashburner J, Avants B, Chiang MC, Christensen GE, Collins DL, Hellier P, Hyun PSJ, Lepage C, Pennec X, Rueckert D, **Thompson PM**, Vercauteren T, Woods RP, Mann JJ, Parsey RV (2008). *Evaluation of 14 nonlinear Deformation Algorithms Applied to Human Brain MRI Registration*, **NeuroImage**, 2009 Jan 13. [Epub ahead of print].
- 287.Raji CA\*, Ho AJ\*, Parikshak N, Becker JT, Lopez OL, Kuller LH, Hua X, Leow AD, Toga AW, **Thompson PM** (2008). *Brain Structure and Obesity*, **Human Brain Mapping**, 2009 Aug 6. [Epub ahead of print].
- 288.Apostolova LG, **Thompson PM**, Green AE, Hwang KS, Zoumalan C, Jack CR Jr, Harvey DJ, Petersen RC, Thal LJ, Aisen PS, Toga AW, Cummings JL, Decarli CS, for the ADCS Group (2010). *3D comparison of low, intermediate, and advanced hippocampal atrophy in MCI*, **Hum Brain Mapp**. 2010 Sep 20. [Epub ahead of print]
- 289.Apostolova LG, Mosconi L, **Thompson PM**, Green AE, Hwang KS, Mistur R, Tsui WH, de Leon MJ. Subregional hippocampal atrophy predicts future decline to Alzheimer's dementia in cognitively normal subjects. *Neurobiology of Aging* 2010, 31 (7): 1077-1088; epub in 2009 <http://dx.doi.org/10.1016/j.neurobiolaging.2008.08.008>. PMID: PMC2873083
- 290.Pievani M, Rasser PE, Galluzzi S, Benussi L, Ghidoni R, Sabatoli F, Bonetti M, Binetti G, **Thompson PM**, Frisoni GB (2009). *Mapping the effect of APOE4 on grey matter loss in Alzheimer's disease in vivo*, **NeuroImage**, 2009 May 1; 45(4):1090-8. Epub 2009 Jan 21.
- 291.Klunder AD, Chiang MC, Dutton RA, Lee SE, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2008). *Mapping Cerebellar Degeneration in HIV/AIDS*, **NeuroReport**, 2008 Nov 19;19(17):1655-9. [PMID: 18806691](#) [NIHMSID #89979](#)
- 292.Lenglet C, Campbell JSW, Descoteaux M, Haro G, Savadjiev P, Wassermann D, Anwender A, Deriche R, Pike GB, Sapiro G, Siddiqi K, **Thompson PM** (2008). *Mathematical Methods for Diffusion MRI Processing*, **NeuroImage**, Special Issue on Mathematics in Brain Imaging, ed. **Thompson PM**, Miller MI, Poldrack R, Nichols T, 2008 Nov 13. [Epub ahead of print]. [PMID: 19063977](#) [NIHMSID #100395](#)
- 293.Braskie MN, Klunder AD, Hayashi KM, Protas H, Kepe V, Miller KJ, Huang SC, Barrio JR, Ercoli L, Toga AW, Bookheimer SY, Small GW, **Thompson PM** (2008). *Plaque and tangle imaging and cognition in normal aging and Alzheimer's disease*, **Neurobiology of Aging**, 2008 Nov 10. [Epub ahead of print].
- 294.Apostolova LG, Beyer MK, Green AE, Hwang KS, Morra JH, Chou YY, Avedissian C, Aarsland D, Janvin CC, Larsen JP, Cummings JL, **Thompson PM** (2010). *Automated 3D mapping of caudate atrophy and ventricular*

enlargement in Parkinson's disease with and without dementia, **MOVEMENT DISORDERS** 25(6):687-695, APR 30 2010. <http://dx.doi.org/10.1002/mds.22799>

295. Chou YY, Leporé N, Avedissian C, Madsen SK, Parikshak N, Hua X, Trojanowski JQ, Shaw L, Weiner MW, Toga AW, **Thompson PM** (2009). *Mapping Correlations between Ventricular Expansion, and CSF Amyloid & Tau Biomarkers in 240 Subjects with Alzheimer's Disease, Mild Cognitive Impairment and Elderly Controls*, **NeuroImage**. 46(2):394-410, June 2009; Epub 2009 Feb 21.
296. Freitag CM, Luders E, Hulst H, Narr KL, **Thompson PM**, Toga AW, Krick C, Konrad C (2009). *Total brain volume and corpus callosum size in medication naïve adolescents and young adults with autism spectrum disorder*, **Biological Psychiatry**, 15;66(4):316-9. PMID: 19409535
297. Lui LM, Thiruvankadam S, Wang YL, **Thompson PM**, Chan TF (2010). *Optimized Conformal Surface Registration with Shape-based Landmark Matching*, **SIAM Journal on Imaging Sciences**, 3(1):52-78, 19 February 2010. <http://link.aip.org/link/?SII/3/52> DOI: 10.1137/080738386
298. Pietiläinen OPH, Paunio T, Loukola A, Tuulio-Henriksson A, Kiesepä T, **Thompson PM**, Toga AW, van ErpTGM, Soronen P, Hennah W, Turunen JA, Peltonen JO, Palo OM, Silander K, Lönnqvist J, Kaprio J, Cannon TD, Peltonen L (2008). *Association of AKT1 with verbal learning, verbal memory and regional cortical grey matter density in twins*, **Neuropsychiatric Genetics**, 2008 Dec 2. [Epub ahead of print].
299. Brun CC, Nicolson R, Lepore N, Chou YY, Vidal CN, DeVito TJ, Drost DJ, Williamson PC, Rajakumar N, Toga AW, **Thompson PM** (2009). *Mapping Brain Abnormalities in Boys with Autism*, **Human Brain Mapping**, 30(12):3887-3900, published online 2009 Jun 24. [Epub ahead of print].
300. Alcantara DA, Carmichael OT, Harcourt-Smith W, Sterner K, Frost S, Dutton RA, **Thompson PM**, Delson E, Amenta N (2007). *Exploration of Shape Variation Using Localized Components Analysis*, **IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)**, 2<sup>nd</sup> revision submitted, Oct. 29, 2008.
301. **Thompson PM**, Miller MI, Poldrack RA, Nichols TE, Taylor JE, Worsley KJ, Ratnanather JT (2008). *Preface: Special Issue on Mathematics in Brain Imaging*, **NeuroImage**, published online, Nov. 5 2008.
302. Brun CC, Leporé N, Pennec X, Lee AD, Barysheva M, Madsen SK, Avedissian C, Chou YY, de Zubicaray GI, McMahon K, Wright MJ, Toga AW, **Thompson PM** (2009). *Mapping the Regional Influence of Genetics on Brain Structure Variability - A Tensor-Based Morphometry Study*, **NeuroImage**, 2009 Oct 15;48(1):37-49. Epub 2009 May 14.
303. Lu PH, **Thompson PM**, Leow AD, Lee G, Lee AD, Yanovsky I, Parikshak N, Khoo T, Wu S, Geschwind D, Bartzokis G (2011). *Apolipoprotein E Genotype Predicts Temporal and Hippocampal Atrophy in Healthy Elderly Adults: A Tensor-Based Morphometry Study*, **Journal of Alzheimer's Disease**. 2011;23(3):433-42.
304. Bearden CE, **Thompson PM**, Avedissian C, Klunder AD, Nicoletti M, Dierschke N, Brambilla P, Soares JC (2009). *Altered hippocampal morphology in unmedicated patients with major depressive illness*, **ASN Neuro**. 2009 Oct 20. [Epub ahead of print].
305. Ogren JA, Wilson CL, Bragin A, Lin JJ, Salamon N, Dutton RA, Luders E, Fields TA, Fried I, Toga AW, **Thompson PM**, Engel J Jr, Staba RJ (2009). *3D Surface Maps Link Local Atrophy and Fast Ripples in Human Epileptic Hippocampus*, **Ann Neurol**. 2009 Dec;66(6):783-91.

306. Frisoni GB, Prestia A, Adorni A, Rasser PE, Cotelli M, Soricelli A, Bonetti M, Geroldi C, Giannakopoulos P, **Thompson PM** (2009). *In vivo neuropathology of cortical changes in elderly persons with schizophrenia*, **Biological Psychiatry**, 2009 Sep 15;66(6):578-85. Epub 2009 May 1.
307. Foland L, Bookheimer SY, Townsend J, Shen J, Penfold C, Ahlf K, Madsen SK, Fischer J, **Thompson PM**, Altschuler LL (2011). *Mapping the relationship between brain structure and function during a behavioral inhibition task in patients with bipolar disorder*, to be submitted, 2011.
308. Engel JP, Akhtari M, Bragin A, Fried I, Lin JJ, Ogren J, Salamon N, Staba R, **Thompson PM** (2010). *New Approaches to Structural and Functional Imaging in Focal Epilepsy*, *Epilepsia*. 2010 Feb;51 Suppl 1:83-6.
309. Gogtay N. **Thompson PM** (2010). Mapping gray matter development: implications for typical development and vulnerability to psychopathology., **Brain and Cognition**, *Special Issue: Adolescent Brain Development*, ed. Monica Luciana, 2010 Feb;72(1):6-15. Epub 2009 Sep 30.
310. Rasser PE, Schall U, Todd J, Mitchie PT, Ward PB, Johnston P, Helmbold K, Case V, Soyland A, Tooney P, **Thompson PM** (2009). *Gray Matter Deficits, mismatch negativity and outcomes in schizophrenia*, **Schizophrenia Bulletin**, 2009 Jun 26. [Epub ahead of print].
311. Brun CC, Luders E, Lepore N, Chou YY, Madsen SK, Toga AW, **Thompson PM** (2009). *Sex differences in brain structure in auditory and cingulate regions*, **NeuroReport**, 2009 Jul 1;20(10):930-5.
312. Zhan L, Leow AD, Chiang MC, Barysheva M, Lee AD, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *How does Angular Resolution Affect Diffusion Imaging Measures?* **NeuroImage**, 2009 Oct 9. [Epub ahead of print].
313. Kim Y, **Thompson PM**, Vese L (2010). *HARDI data denoising using vectorial total variation and logarithmic barrier*, Special Issue of **Inverse Problems in Imaging** on Medical Imaging, eds.: Chen, Chan, and Zhou, 2010 May 1;4(2):273-310.
314. Sun D, van Erp TGM, **Thompson PM**, Bearden CE, Daley M, Kushan L, Hardt ME, Nuechterlein K, Toga AW, Cannon TD (2009). *Elucidating an MRI-Based Biomarker for Psychosis: Classification using Probabilistic Brain Atlas and Machine Learning Algorithms*, **Biological Psychiatry**, 2009 Sep 1. [Epub ahead of print].
315. Macey PM, Richard CA, Kumar R, Woo MA, Ogren JA, Avedissian C, **Thompson PM**, Harper RM (2009). *Hippocampal Volume Reduction in Congenital Central Hypoventilation Syndrome*, **PLoS ONE**, 2009 Jul 30;4(7):e6436.
316. Hua X, Lee S, Yanovsky I, Leow AD, Chou YY, Ho AJ, Gutman B, Toga AW, Jack CR, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, **Thompson PM** (2009). *Optimizing Power to Track Brain Degeneration in Alzheimer's Disease and Mild Cognitive Impairment with Tensor-Based Morphometry: An ADNI Study of 515 Subjects*, **NeuroImage**, 2009 Dec;48(4):668-81. Epub 2009 Jul 14.
317. Ho A, Hua X, Lee S, Leow AD, Yanovsky I, Gutman B, Dinov ID, Lepore N, Stein J, Toga AW, Jack CR, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, **Thompson PM** (2009). *Comparing 3 Tesla and 1.5 Tesla MRI for Tracking Alzheimer's Disease Progression with Tensor-Based Morphometry*, **Human Brain Mapping**, 2009 Sep 24. [Epub ahead of print].

318. Apostolova LG, Morra JH, Green AE, Hwang K, Avedissian C, Woo E, Cummings JL, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2010). *Automated 3D mapping of baseline and 12-month associations between three verbal memory measures and hippocampal atrophy in 490 ADNI subjects*. **NeuroImage** 2010; 51 (1): 488-99; <http://dx.doi.org/10.1016/j.neuroimage.2009.12.125>. PMID: PMC2847034
319. Stein JL, Hua X, Morra JH, Lee S, Ho AJ, Leow AD, Toga AW, Sul J, Kang HM, Eskin E, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, Gerber JD, Allen A, Corneveaux J, Stephan DA, Webster J, DeChairo BM, Potkin SG, Jack CR, Weiner MW, **Thompson PM** (2010). Genome-wide analysis reveals novel genes influencing temporal lobe structure with relevance to neurodegeneration in Alzheimer's disease, **NeuroImage**, 2010 Mar 1. [Epub ahead of print].
320. Kumar R, Ahdout R, Macey PM, Woo MA, Avedissian C, **Thompson PM**, Harper RM (2009). *Reduced Caudate Nuclei Volumes in Patients with Congenital Central Hypoventilation Syndrome*, **Neuroscience**, 2009 Jul 24. [Epub ahead of print].
321. Wang YL, Dai W, Chou YY, Gu X, Chan TF, Toga AW, Yau ST, **Thompson PM** (2009). *Teichmuller Space Theory for Studying Brain Morphometry*, **IEEE Transactions on Signal Processing**, Special Issue on Medical Imaging, submitted, May 31 2009.
322. Wang YL, Wang YT, Chiang MC, Chan TF, Toga AW, **Thompson PM** (2009). *Surface Fluid Registration for Brain Mapping Research*, **IEEE Transactions on Signal Processing**, Special Issue on Medical Imaging, submitted, May 31 2009.
323. Foland-Ross LC, Lori L. Altshuler<sup>2</sup>, Susan Y. Bookheimer<sup>2</sup>, Matthew Lieberman<sup>4</sup>, Jennifer Townsend<sup>2</sup>, Conor Penfold<sup>2</sup>, Kyle Ahlf<sup>2</sup>, Jim K. Shen<sup>2</sup>, Sarah K. Madsen<sup>1</sup>, Paul E. Rasser<sup>3</sup>, Arthur W. Toga, **Paul M. Thompson<sup>1</sup>** (2010). *Amygdala reactivity in healthy adults is correlated with prefrontal cortical thickness*, **Journal of Neuroscience**, 2010 Dec 8;30(49):16673-8.
324. Patel V, Shi Y, **Thompson PM**, Toga AW (2010). *Mesh-Based Spherical Deconvolution: A Flexible Approach to Reconstruction of Non-Negative Fiber Orientation Distributions*, **NeuroImage**, **51(3):1071-1081**, JUL 1 2010.
325. Gutman B, Wang YL, Morra JH, Toga AW, **Thompson PM** (2009). *Disease Classification with Hippocampal Surface Invariants*, **Hippocampus**, **19(6):572-578** [Special Issue], 2009.
326. Leporé N, Voss P, Chou YY, Fortin M, Gougoux F, Leporé F, Lee AD, Brun CC, Lassonde M, Madsen SK, Toga AW, **Thompson PM** (2009). *Brain Structure Changes Visualized in Early- and Late-Onset Blind Subjects*, **NeuroImage**, 49(1):134-140, published online 2009 Jul 28. [Epub ahead of print].
327. Di Paola M, Luders E, Di Iulio F, Varsi AE, Sancesario G, Passafiume D, **Thompson PM**, Caltagirone C, Toga AW, Spalletta G (2009). *Callosal atrophy in Mild Cognitive Impairment and Alzheimer's Disease: Different Effects in Different Stages*, **NeuroImage**, 2010 Jan 1;49(1):141-9. Epub 2009 Jul 28.
328. Foley J, Siddarth P, Bookheimer SY, Bartzokis G, Hayashi KM, **Thompson PM**, Small GW, Ercoli LM (2012). *Changes in White Matter Volumes among Healthy Older Adults With and Without the Apolipoprotein Epsilon 4 Genetic Risk for Alzheimer's Disease: A Longitudinal Study*, **Archives of Neurology**, under revision, 2012.
329. Cohen R, Jaroslaw Harezlak<sup>2</sup>, Constantin T Yiannoutsos<sup>2</sup>, George Hana<sup>1</sup>, Uraina Clark<sup>1</sup>, Assawin Gongvatana<sup>1</sup>, Giovanni Schifitto<sup>3</sup>, Elyse Singer<sup>4</sup>, Robert Paul<sup>5</sup>, Jeffrey Alger, **Thompson PM**, Thomas Campbell<sup>5</sup>, Deborah McMahon, Yuen Tso, Mark Brown<sup>8</sup>, Michael Taylor<sup>4</sup>, and Bradford Navia<sup>9</sup>, and the HIV Neuroimaging

- Consortium (2010). *Effects of Nadir CD4 Count and Duration of HIV Infection on Brain Volumes in the HAART Era*, **Journal of Neurovirology**, **16:1-8**, Jan 2010.
330. Ho AJ, Stein JL, Hua X, Lee S, Hibar DP, Leow AD, Dinov ID, Toga AW, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, Gerber JD, Allen A, Corneveaux J, Stephan DA, Webster J, DeChairo BM, Potkin SG, Jack CR, Weiner MW, Raji CA, Lopez OL, Becker JT, Thompson PM (2010). A commonly carried allele of the obesity-related FTO gene is associated with reduced brain volume in the healthy elderly, **Proceedings of the National Academy of Sciences (PNAS)**, 107(18):8404-8409, MAY 4 2010.
331. Lee AD, Lepore N, Barysheva M, Chou YY, Schwartzman A, Brun CC, Madsen SK, McMahon KL, de Zubicaray GI, Wright MJ, Martin N, Toga AW, **Thompson PM** (2013). *A Multivariate analysis of the Effects of Genes and Environment on Brain Fiber Architecture*, submitted to **NeuroImage**, August 31 2009, revised version submitted, May 28 2011, under revision; to be re-submitted, 2013.
332. Stein JL, Hua X, Lee S, Ho AJ, Leow AD, Toga AW, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, Gerber JD, Allen A, Corneveaux J, Stephan DA, Webster J, DeChairo BM, Potkin SG, Jack CR, Weiner MW, **Thompson PM** (2010). **Voxelwise Genome-Wide Association Study (vGWAS)**, **NeuroImage**, Special Issue on Imaging Genomics, published online, March 2010.
333. Kochunov P, Glahn DC, Lancaster JL, Winkler AM, Smith S, **Thompson PM**, Almasy L, Duggirala R, Fox PT, Blangero J. (2010). *Genetics of microstructure of cerebral white matter using diffusion tensor imaging*, **NeuroImage**, Special Issue on Imaging Genomics, 2010 Jan 29. [Epub ahead of print].
334. Welcome SE, Chiarello C, **Thompson PM**, Sowell ER (2011). *Reading skill is related to individual differences in brain structure in college students*, **Human Brain Mapping**, Hum Brain Mapp. 2011 Apr 26. doi: 10.1002/hbm.21101. [Epub ahead of print].
335. Lepore N, Vachon P, Lepore F, Chou YY, Voss P, Brun C, Lee AD, Toga AW, **Thompson PM** (2009). *3D Mapping of Brain Differences in Fluent Signing Congenitally and Prelingually Deaf Subjects*, **Human Brain Mapping**, 2009 Dec 8. [Epub ahead of print]. Volume: **31** Issue: **7** Pages: **970-978**.
336. Shi Y, Lai R, Morra JH, Dinov ID, **Thompson PM**, Toga AW (2010). *Robust Surface Reconstruction via Laplace-Beltrami Eigenprojection and Boundary Deformation*, **IEEE Transactions on Medical Imaging**, 2010 Jul 12. [Epub ahead of print].
337. Brun CC, Lepore N, Pennec X, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, McMahon KL, Wright MJ, Toga AW, **Thompson PM** (2010). A non-Conservative Lagrangian Framework for Statistical Fluid Registration: SAFIRA, **IEEE Transactions on Medical Imaging**, 2010 Sep 2. [Epub ahead of print].
338. Yotter RA, **Thompson PM**, Gaser C (2010). *Algorithms to Improve the Re-Parameterization of Spherical Mappings of Brain Surface Meshes*, **J Neuroimaging**. 2010 Apr 13. [Epub ahead of print].
339. Foland-Ross LC, **Thompson PM**, Sugar CA, Madsen SK, Shen JK, Penfold C, Ahlf K, Rasser PE, Fischer J, Yang Y, Townsend J, Bookheimer SY, Altshuler LL (2011). Investigation of cortical thickness abnormalities in lithium-free adults with bipolar I disorder using cortical pattern matching. **Am J Psychiatry**. 2011 May;168(5):530-9. Epub 2011 Feb 1.
340. Chen K, Langbaum JB, Fleisher AS, Ayutyanont N, Reschke C, Lee W, Liu X, Bandy D, Alexander GE, **Thompson PM**, Foster NL, Harvey DJ, de Leon MJ, Koeppel RA, Jagust WJ, Weiner MW, Reiman EM; The Alzheimer's Disease Neuroimaging Initiative (2010). *Twelve-Month Metabolic Declines in Probable Alzheimer's*

- Disease and Amnesic Mild Cognitive Impairment Assessed Using an Empirically Pre-Defined Statistical Region-of-Interest: Findings from the Alzheimer's Disease Neuroimaging Initiative*, **NeuroImage**, 2010 Mar 2. [Epub ahead of print].
- 341.Scher AI, Xu Y, Korf ESC, White LR, Scheltens P, Toga AW, **Thompson PM**, Hartley SW, Witter MP, Valentino DJ, Launer LJ (2010). *Hippocampal Morphometry in Alzheimer's vs. Vascular Dementia: The HAAS*, **Journal of Neurology, Neurosurgery & Psychiatry**, 2010 Sep 8. [Epub ahead of print].
- 342.Lui LM, Wong TW, Zeng W, Gu XF, **Thompson PM**, Chan TF, Yau ST (2010). *Detecting Shape Deformations using Yamabe Flow and Beltrami Coefficients*, **Inverse Problems in Imaging 4(2)**: 311-333, Special Issue on Medical Imaging, eds.: Chen, Chan, and Zhou, May 2010.
- 343.Ho AJ\*, Raji CA\*, Becker JT, Lopez OL, Kuller LH, Hua X, Leow AD, Dinov ID, Stein JL, Rosano C, Toga AW, **Thompson PM** (2010). The Effects of *Physical Activity, Education, and Body Mass Index on the Aging Brain*, **Human Brain Mapping**, 2010 Aug 16. [Epub ahead of print]. [\*equal contribution].
- 344.Hua X, Suh Lee<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Igor Yanovsky PhD<sup>3</sup>, Alex D. Leow MD PhD<sup>1,2</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>4</sup>, Matt A. Bernstein PhD<sup>4</sup>, Eric M. Reiman MD<sup>5</sup>, Danielle J. Harvey PhD<sup>6</sup>, John Kornak PhD<sup>9</sup>, Norbert Schuff PhD<sup>8,9</sup>, Gene E. Alexander PhD<sup>11</sup>, Weiner MW, **Thompson PM** (2010). *Mapping Alzheimer's Disease Progression in 1309 MRI Scans: Power Estimates for Different Inter-Scan Intervals*, **NeuroImage**, 2010 May 15;51(1):63-75. Epub 2010 Feb 6.
- 345.Luders E, **Thompson PM**, Toga AW (2010). *The Development of the Corpus Callosum in the Healthy Human Brain*, **Journal of Neuroscience**, 2010 Aug 18;30(33):10985-90.
- 346.Lee AD, Laporé N, Laporé F, Alary F, Voss P, Chou YY, Brun C, Barysheva M, Toga AW, **Thompson PM** (2013). *Brain Differences Visualized in the Blind using Tensor Manifold Statistics and Diffusion Tensor Imaging*, submitted to **European Journal of Neuroscience**, Oct. 30 2009, under revision, Oct. 2010, to be re-submitted, 2013.
- 347.Wang YL, Zhang J, Gutman B, Chan TF, Becker JT, Aizenstein HJ, Lopez OL, Tamburo RJ, Toga AW, **Thompson PM** (2010). *Multivariate Tensor-Based Morphometry on Surfaces: Application to Mapping Ventricular Abnormalities in HIV/AIDS*, **NeuroImage**, 2010 Feb 1;49(3):2141-57. Epub 2009 Nov 6.
- 348.Yotter RA, Danhke R, **Thompson PM**, Gaser C (2010). Topological Correction of Brain Surface Meshes Using Spherical Harmonics, **Human Brain Mapping**, 2010 Jul 27. [Epub ahead of print].
- 349.Iglesias JE, **Thompson PM**, Liu CY, Tu Z (2011). *Fast Approximate Stochastic Tractography*, **Neuroinformatics**, Apr 8. [Epub ahead of print].
- 350.Finegersh A, Avedissian C, Shamim S, Dustin I, **Thompson PM**, Theodore WH (2011) *Bilateral hippocampal atrophy in temporal lobe epilepsy: Effect of depressive symptoms and febrile seizures*. **Epilepsia**. Apr;52(4):689-97.
- 351.Frisoni GB, Fox NC, Jack CR Jr, Scheltens P, **Thompson PM** (2010). *The Clinical Use of Structural MRI in Alzheimer's Disease*, **Nature Reviews Neurology**, 2010 Feb;6(2):67-77.
- 352.Chiang GC, Insel PS, Tosun D, Schuff N, Truran-Sacrey D, Raptentsetsang ST, **Thompson PM**, Reiman EM, Jack CR, Fox NC, Jagust WJ, Harvey DJ, Beckett LA, Gamst A, Aisen PS, Petersen RC, Weiner MW and the ADNI (2011). *Impact of ApoE4-CSF Abeta interaction on hippocampal volume loss over 1 year in MCI*, **Journal of Alzheimer's Dementia**, 2011 Sep;7(5):514-20. doi: 10.1016/j.jalz.2010.12.010, 2011.



353. Kochunov P, Glahn D, Fox P, Lancaster J, Saleem K, Shelledy W, Zilles K, **Thompson PM**, Coulon O, Mangin JF, Blangero DJ, Rogers J (2010). *Genetics of primary cerebral gyration: Heritability of length, depth and area of primary sulci in an extended pedigree of Papio baboons*, **NeuroImage, Special Issue on Imaging and Genetics**, Nov. 15 2010.
354. Frisoni GB, Prestia A, Geroldi C, Adorni A, Ghidoni R, Amicucci G, Bonetti M, Soricelli A, Rasser PE, **Thompson PM**, Giannakopoulos P (2011). *Alzheimer's CSF markers in older schizophrenia patients*, *Int J Geriatr Psychiatry*. 2011 Jun;26(6):640-8. doi: 10.1002/gps.2575. Epub 2010 Sep 27.
355. Patel V, Dinov ID, van Horn JD, **Thompson PM**, Toga AW (2010). LONI MiND: Meta-data in NifTI for DWI, **NeuroImage**, Volume: **51** Issue: **2** Pages: **665-676** Published: **JUN 2010**.
356. Apostolova LG, Hwang KS, Andrawis JP, Green AE, Babakchian S, Morra JH, Cummings JL, Toga AW, Trojanowski JQ, Shaw LM, Jack CRJ, Koeppe RA, Mathis CA, Weiner MW, **Thompson PM** (2010). 3D PIB and CSF biomarker associations with hippocampal atrophy in ADNI subjects. **Neurobiol Aging**, ADNI special issue, 2010, 31: 1284-303; epub <http://dx.doi.org/10.1016/j.neurobiolaging.2010.05.003>.
357. Sowell ER, Leow AD, Bookheimer SY, Smith LM, O'Connor MJ, Kan E, Rosso C, Houston S, Dinov ID, **Thompson PM** (2010). *Differentiating prenatal exposure to methamphetamine and alcohol versus alcohol and not methamphetamine using tensor based brain morphometry and discriminant analysis*", **Journal of Neuroscience**, Mar 17;30(11):3876-85.
358. Hua X, Hibar DP, Lee S, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2010). *Sex and age differences in brain atrophic rates: an ADNI study with N=1368 MRI scans*, **Neurobiology of Aging, Special Issue on ADNI**, 2010 Aug;31(8):1463-80.
359. Kohannim O, Hua X, Hibar DP, Lee S, Chou YY, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2010). Boosting power for clinical trials using classifiers based on multiple biomarkers, **Neurobiology of Aging, Special Issue on ADNI**, 2010 Aug;31(8):1429-42. Epub 2010 Jun 11.
360. Ho AJ, Raji CA, Becker JL, Lopez OL, Kuller LH, Hua X, Lee S, Hibar D, Dinov ID, Stein JL, Jack CR, Weiner MW, Toga AW, **Thompson PM** (2010). Obesity is linked with lower brain volume in 700 MCI and AD patients, **Neurobiology of Aging, Special Issue on ADNI**, 2010 Aug;31(8):1326-39. Epub 2010 Jun 8.
361. Madsen SK, Ho AJ, Hua X, Saharan PS, Toga AW, Jack CR, Weiner MW, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative\* (2010). Caudate Atrophy & Clinical Correlates in 400 Alzheimer's Disease, MCI, & Healthy Elderly Subjects, **Neurobiology of Aging, Special Issue on ADNI**, 2010 Aug;31(8):1312-25. Epub 2010 Jun 11.
362. Chou YY, Leporé N, Saharan P, Madsen SK, Hua X, Jack CR, Shaw LM, Trojanowski JQ, Weiner MW, Toga AW, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative (2010). Ranking the Clinical and Pathological Correlates of Ventricular Expansion Mapped in 804 Alzheimer's Disease, MCI, and Normal Elderly Subjects, **Neurobiology of Aging, Special Issue on ADNI**, 2010 Aug;31(8):1386-400.
363. Leow AD, Aifeng Zhang<sup>1</sup>, Frank McFadden<sup>5</sup>, **Paul M. Thompson**<sup>3</sup>, and Anand Kumar (2012). *Theoretical Limits to Fiber-crossing Angular Resolution in HARDI*, submitted to **Magnetic Resonance in Medicine**, Feb 2010.
364. Jack Jr CR, Bernstein MA, Borowski BJ, Gunter JL, Fox NC, **Thompson PM**, Schuff N, Krueger G, Killiany RJ, DeCarli CS, Dale AM, Carmichael OT, Tosun D, Weiner MW, and the Alzheimer's Disease Neuroimaging Initiative (2010). *Update on the MRI Core of the Alzheimer's Disease Neuroimaging Initiative*, **Journal of**

365. Cole J, Toga AW, Hojatkashani C, **Thompson PM**, Costafreda SG, Cleare AJ, Williams SCR, Bullmore ET, Scott J, Mitterschiffthaler MT, Walsh ND, Donaldson C, Mirza M, Marquand A, Nosarti C, McGuffin P, Fu CHY (2008). *Sub-regional deformations in hippocampal morphology in depression*, *Journal of Affective Disorders*, 2010 Oct;126(1-2):272-7. Epub 2010 Apr 14.
366. Minnerop M; Luders E; Specht K; Ruhlmann J; Schimke, N; **Thompson PM**; Chou YY; Toga AW; Abele M; Wüllner U; Klockgether T (2010). Callosal tissue loss in multiple system atrophy: a one-year follow-up study, **Movement Disorders**, 2010 Jul 8. [Epub ahead of print]
367. Luders E, Cherbuin N, **Thompson PM**, Boris Gutman, Kaarin J. Anstey, Perminder Sachdev, Arthur W. Toga (2010). When more is less: associations between corpus callosum size and handedness lateralization, **NeuroImage**, 2010 Aug 1;52(1):43-9. Epub 2010 Apr 13.
368. **Thompson PM**, Martin NG, Wright MJ (2010). *Imaging Genomics*, Invited Review paper for: **Current Opinion in Neurology**, 2010 Aug;23(4):368-73.
369. Blokland G, Katie L. McMahon<sup>2</sup>, **Paul M. Thompson**<sup>4</sup>, Nicholas G. Martin<sup>1</sup>, Greig I. de Zubicaray<sup>3,2</sup>, Margaret J. Wright<sup>1</sup> (2011). Heritability of working memory brain activation, **Journal of Neuroscience**, **31(30):10882-10890, JUL 27 2011**.
370. Saykin AJ, Shen L, Foroud TM, Potkin SG, Swaminathan S, Kim S, Risacher SL, Nho K, Huentelman MJ, Craig DW, **Thompson PM**, Stein JL, Moore JH, Farrer LA, Green RC, Bertram L, Jack CR, Weiner MW, and the Alzheimer's Disease Neuroimaging Initiative (2010 in press). ADNI biomarkers as quantitative phenotypes: Genetics core aims, progress, and plans, *Alzheimer's and Dementia* **Journal of the Alzheimer's Association**, doi:10.1016/j.jalz.2010.03.013 (NIHMS196486, Publ.ID: JALZ1118), **Volume 6, Issue 3, Pages 265-273, May 2010**.
371. Brooks JO 3rd, Foland-Ross LC, **Thompson PM**, Altshuler LL (2011). Preliminary evidence of within-subject changes in gray matter density associated with remission of bipolar depression. **Psychiatry Res**. 2011 Jul 30;193(1):53-5. Epub 2011 May 10.
372. Goh A, Lenglet C, **Thompson PM**, Vidal R (2011). *A Convex Riemannian Framework for Estimation of Orientation Distribution Functions with Non-Negativity Constraints and Spatial Regularity*, submitted to **Medical Image Analysis**, April 2010.
373. Protas HD, Huang SC, Kepe V, Hayashi K, Klunder A, Braskie MN, Ercoli L, Bookheimer S, **Thompson PM**, Small GW, Barrio JR. FDDNP binding using MR derived cortical surface maps. **Neuroimage**. 2010 Jan 1;49(1):240-8. Epub 2009 Aug 22.
374. Prestia A, PsyD<sup>(1)</sup>, Valeria Drago, MD<sup>(1)</sup>, Paul E. Rasser, MSc<sup>(2)(3)</sup>, Matteo Bonetti, MD<sup>(4)</sup>, **Paul M. Thompson**, PhD<sup>(5)</sup>, and Giovanni B. Frisoni, MD<sup>(1)(6)</sup> (2010). Cortical changes in incipient Alzheimer's disease, **Journal of Alzheimer's Disease**, 2010;22(4):1339-49.
375. Erickson KI\*, Raji CA\*, Lopez OL, Becker JT, Rosano C, Newman AB, HM Gach, **Thompson PM**, Ho AJ, Kuller LH (2010). *Physical Activity and Gray Matter Volume in Late Adulthood: the Cardiovascular Health Cognition Study*, **Neurology**, 2010 Oct 19;75(16):1415-22. Epub 2010 Oct 13.
376. Jahanshad N, Lee AD, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW,

- Thompson PM** (2010). *Genetics Influences on Brain Asymmetry: A DTI Study of 374 Twins and Siblings*, **NeuroImage**, 2010 Aug 15;52(2):455-69. Epub 2010 Apr 27.
377. Rasser PE, Schall U, Peck G, Cohen M, Johnston P, Carr VJ, Ward PB, **Thompson PM** (2010). *Cerebellar grey matter deficits in first-episode schizophrenia mapped using cortical pattern matching*, 2010 Dec;53(4):1175-80. Epub 2010 Jul 12.
378. Frisoni GB, Annapaola Prestia, PsyD<sup>(1)</sup>, Cristina Geroldi, MD<sup>(1)(2)</sup>, Andrea Adorni, MD<sup>(1)(2)</sup>, Roberta Ghidoni<sup>(3)(4)</sup>, Giovanni Amicucci, MD<sup>(5)</sup>, Matteo Bonetti, MD<sup>(6)</sup>, Andrea Soricelli, MD<sup>(7)</sup>, Paul E. Rasser<sup>(8)(9)</sup>, **Paul M. Thompson**, PhD<sup>(10)</sup>, and Panteleimon Giannakopoulos, MD<sup>(11)(12)</sup> (2010). Alzheimer's disease markers in the CSF in older schizophrenia patients *International Journal of Geriatric Psychiatry*. 2010 Sep 27. [Epub ahead of print].
379. Wu X<sup>a</sup>, Kewei Chen<sup>b,c,d,e,m,\*</sup>, Li Yao<sup>a,m</sup>, Napatkamon Ayutyanont<sup>b,e</sup>, Jessica B.S. Langbaum<sup>b,e</sup>, Adam. Fleisher<sup>b,e</sup>, Cole Reschke<sup>b,e</sup>, Wendy Lee<sup>b,e</sup>, Xiaofen Liu<sup>b,e</sup>, Gene E Alexander<sup>e,g</sup>, Dan Bandy<sup>b,e</sup>, Norman L Foster<sup>h</sup>, **Paul M. Thompson**<sup>f</sup>, Danielle J. Harvey<sup>n</sup>, Michael W Weiner<sup>l,j</sup>, Robert A Koeppe<sup>k</sup>, William J Jagust<sup>l</sup>, Eric M. Reiman<sup>b,e</sup> and the Alzheimer's Disease Neuroimaging Initiative<sup>#</sup> (2010). The Assessment of Detection Reliability of Hypometabolism in Probable Alzheimer's Disease and Amnesic Mild Cognitive Impairment Patients from the Alzheimer's Disease Neuroimaging Initiative, **Journal of Neuroscience Methods**, 2010 Oct 15;192(2):277-85. Epub 2010 Aug 1.
380. Chen K, Ayutyanont N, Langbaum JB, Fleisher AS, Reschke C, Lee W, Liu X, Bandy D, Alexander GE, **Thompson PM**, Shaw L, Trojanowski JQ, Jack CR Jr, Landau SM, Foster NL, Harvey DJ, Weiner MW, Koeppe RA, Jagust WJ, **Reiman EM**; and the Alzheimer's Disease Neuroimaging Initiative (2011). **Characterizing Alzheimer's Disease Using a Hypometabolic Convergence Index**, **NeuroImage**, 2011 May 1;56(1):52-60. Epub 2011 Jan 27.
381. Bearden CE, Theo G. M. van Erp<sup>2</sup>, Rebecca A. Dutton<sup>3</sup>, Christina Boyle<sup>3</sup>, Sarah Madsen<sup>3</sup>, Tuula Kieseppa<sup>4</sup>, Annamari Tuulio-Henriksson<sup>5,6</sup>, Jari Haukka<sup>5</sup>, Matti Huttunen<sup>5</sup>, Timo Partonen<sup>5</sup>, Veli-Pekka Poutanen<sup>7</sup>, Jaakko Kaprio<sup>8</sup>, Jouko Lönnqvist<sup>5</sup>, Paul M. Thompson<sup>3</sup> and Tyrone D. Cannon<sup>1,2</sup> (2011). **MAPPING CORPUS CALLOSUM MORPHOLOGY IN TWIN PAIRS DISCORDANT FOR BIPOLAR DISORDER**, **Cerebral Cortex**, 2011; published online, March 2011; doi: 10.1093/cercor/bhr030.
382. Lu PH, Lee GJ, Raven EP, Tingus K, Khoo T, **Thompson PM**, **Bartzokis G** (2011). *Age-Related Slowing in Cognitive Processing Speed is Associated with Myelin Integrity in a Very Healthy Elderly Sample*, **Journal of Clinical and Experimental Neuropsychology**, 2011 Dec;33(10):1059-68. Epub 2011 Aug 26.
383. Andrawis J, Hwang K, Green AE, Kotlerman J, Elashoff D, Morra JH, Cummings JL, Toga AW, **Thompson PM**, Apostolova LG (2012). *Effects of ApoE4 and maternal history of dementia on hippocampal atrophy*, **Neurobiology of Aging**, Volume: **33** Issue: **5** Pages: **856-866**, **May 2012**.
384. Braskie MN,\* Jahanshad N,\* Stein JL,\* Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Ringman JM, Toga AW, **Thompson PM** (2011). Common Alzheimer's disease risk variant within the *CLU* gene affects white matter microstructure in young adults, **Journal of Neuroscience**, 2011 May 4;31(18):6764-70. [\*equal contribution].
385. Stein JL, Derrek P. Hibar<sup>1</sup>, Sarah K. Madsen<sup>1</sup>, Mathew Khamis<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Narelle K. Hansell<sup>4</sup>, Grant W. Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Andrew J. Saykin<sup>5</sup>, Clifford R. Jack, Jr<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative\* (2011). **Discovery and replication of dopamine-related gene effects on caudate volume in young and elderly populations (N=1198) using genome-wide search**, **Molecular Psychiatry**, 16:

- 927-937; advance online publication, April 19, 2011; doi:10.1038/mp.2011.32, **Volume 16, Issue 9 (September 2011)**).
386. Stein JL, Derrek P. Hibar<sup>1</sup>, Sarah K. Madsen<sup>1</sup>, Mathew Khamis<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Narelle K. Hansell<sup>4</sup>, Grant W. Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Andrew J. Saykin<sup>5</sup>, Clifford R. Jack, Jr<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative\* (2011). **Genome-wide association reveals dopamine-related genetic effects on caudate volume**, *Mol Psychiatry* 16: 881; doi:10.1038/mp.2011.98, **Volume 16, Issue 9 (September 2011)**).
387. Westerhausen R, Luders E, Specht K, Ofte SH, Toga AW, **Thompson PM**, Helland T, Hugdahl K (2010). *Structural and functional reorganization of the corpus callosum between the age of 6 and 8 years*, **Cerebral Cortex**, *Cereb Cortex*. 2010 Sep 16. [Epub ahead of print].
388. Thomason ME, **Thompson PM** (2011). *Diffusion Imaging, White Matter and Psychopathology*, **Annual Review of Clinical Psychology** 2011 Apr;7:63-85.
389. Chiang MC<sup>1</sup>, Marina Barysheva<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Sarah E. Medland<sup>2</sup>, Narelle K. Hansell<sup>2</sup>, Michael R. James<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, **Paul M. Thompson<sup>1</sup>** (2010). *BDNF Gene Effects on Brain Circuitry and Intelligence Replicated in 455 Twins*, **NeuroImage**, 2011 Mar 15;55(2):448-54. Epub 2010 Dec 30.
390. Luders E, **Paul M. Thompson**, Katherine L. Narr, Alen Zamanyan, Yi-Yu Chou, Boris Gutman, Ivo D. Dinov, Arthur W. Toga (2010). The link between callosal thickness and intelligence in healthy children and adolescents, **NeuroImage**, 2011 Feb 1;54(3):1823-30. Epub 2010 Oct 13.
391. Cavado E, Boccardi M, Ganzola R, Canu E, Beltramello A, Caltagirone C, **Thompson PM**, Frisoni GB (2011). *Amygdalar local structural differences with 3T MRI in patients with Alzheimer disease*. **Neurology**. 2011 Feb 22;76(8):727-33.
392. Gothelf D, Hoeft F, Ueno T, Sugiura L, Lee AD, **Thompson PM**, Reiss AL (2010). *Developmental Changes in Multivariate Neuroanatomical Patterns that Predict Risk for Psychosis in 22q11.2 Deletion Syndrome*, **Journal of Psychiatric Research**, 2010 Sep 1. [Epub ahead of print].
393. Cohen M, Rasser PE, Peck G, Carr VJ, Ward PB, **Thompson PM**, Johnston P, Baker A, Schall U (2011). Cerebellar grey-matter deficits, cannabis use and first-episode schizophrenia in adolescents and young adults, **The International Journal of Neuropsychopharmacology**, May 4:1-11. [Epub ahead of print].
394. Apostolova LG, Green AE, Babakchanian S, Hwang KS, Chou YY, Toga AW, **Thompson PM** (2012). Hippocampal atrophy and lateral ventricle enlargement in Alzheimer's disease and mild cognitive impairment, **Journal of Alzheimer's Disease and Associated Disorders**, 2012 Jan;26(1):17-27.
395. Thomason ME, Emily L. Dennis,<sup>2,3</sup> Anand A. Joshi,<sup>2,3</sup> Shantanu H. Joshi,<sup>2,3</sup> Ivo D. Dinov,<sup>4</sup> Catie Chang,<sup>1</sup> Melissa L. Henry,<sup>1</sup> Rebecca F. Johnson,<sup>2,3</sup> Paul M. Thompson,<sup>2,3</sup> Arthur W. Toga,<sup>4</sup> Gary H. Glover,<sup>2,3</sup> Jack D. Van Horn, and <sup>1</sup>Ian H. Gotlib (2010). **Resting-state fMRI can reliably map neural networks in children**, **NeuroImage**, 2010 Dec 4. [Epub ahead of print].

- 396.Zhan L<sup>1,\*</sup>, Alex D. Leow<sup>2,3,\*</sup>, Neda Jahanshad<sup>1</sup>, Agatha D. Lee<sup>1</sup>, Marina Barysheva<sup>1</sup>, Aifeng Zhang<sup>2</sup>, Anand Kumar<sup>2</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>5</sup>, Nicholas G. Martin<sup>6</sup>, Margaret J. Wright<sup>5,6</sup>, Paul M. Thompson<sup>1</sup> (2012). **Heritability of white matter microstructure assessed using the tensor distribution function, revised version submitted to Human Brain Mapping, May 2011.**
- 397.Hua X<sup>1</sup>, **Paul M. Thompson<sup>1</sup>**, Alex D. Leow<sup>1,4</sup>, Sarah K. Madsen<sup>1</sup>, Rochelle Caplan<sup>3</sup>, Jeffrey R. Alger<sup>2</sup>, Joseph O'Neill<sup>3</sup>, Kishori Joshi<sup>3</sup>, Arthur W. Toga<sup>1</sup> and Jennifer G. Levitt<sup>3\*</sup> (2011). **Brain Growth Rate Abnormalities Visualized in Adolescents with Autism, Human Brain Mapping**, 2011 Oct 20. doi: 10.1002/hbm.21441. [Epub ahead of print].
- 398.Apostolova L, Alves G, Hwang KS, Babakchian S, Bronnick KS, Larsen JP, **Thompson PM**, Chou YY, Tysnes OB, Vefring HK, Beyer MK (2011). Hippocampal and ventricular changes in Parkinson's disease mild cognitive impairment., *Neurobiol Aging*. 2011 Aug 1. [Epub ahead of print].
- 399.Beyer MK, Guido Alves MD, PhD<sup>1</sup>, Kristy S. Hwang BS<sup>2</sup>, Sona Babakchian BS<sup>2</sup>, Kolbjørn S. Brønnick PhD<sup>1</sup>, Yi-Yu Chou PhD<sup>3</sup>, Jan P Larsen MD, PhD<sup>1</sup>, Ezra Mulugeta, PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>2,3</sup>**, Ole Bjørn Tysnes MD, PhD<sup>4</sup>, Liana G Apostolova MD<sup>2</sup> (2012). The relation between CSF Aβ and tau biomarkers and hippocampal atrophy and lateral ventricle enlargement in Parkinson's disease with and without mild cognitive impairment, **to be re-submitted to Brain, Oct. 2010.**
- 400.Braskie M, Ringman J, **Thompson PM** (2011). Neuroimaging measures as endophenotypes in Alzheimer's disease, **International Journal of Alzheimer's Disease**, Special Issue on "Genetics and Genomics of Late-Onset Alzheimer's Disease and Its Endophenotypes", **2011 Mar 31;2011:490140.**
- 401.Ho AJ, Cyrus A. Raji PhD<sup>2,3\*</sup>, Priya Saharan<sup>1</sup>, Andrew DeGiorgio<sup>1</sup>, Sarah K. Madsen<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1</sup>, James T. Becker PhD<sup>4,5,6</sup>, Oscar L. Lopez MD<sup>6</sup>, Arthur W. Toga PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2011). *Hippocampal volume is related to body mass index in Alzheimer's disease*, **Neuroreport**, **2011 Jan 5;22(1):10-4.**
- 402.van Erp TGM, **Thompson PM**, Kieseppä T, Bearden CE, Marino A, Hoftman GD, Haukka J, Partonen T, Huttunen M, Kaprio J, Lönnqvist J, Poutanen VP, Toga AW, Cannon TD (2011). Hippocampal Morphology in Lithium and Non-Lithium-Treated Bipolar I Disorder Patients, Non-Bipolar Co-Twins, and Control Twins, **Human Brain Mapping**, 2011 Mar 31. doi: 10.1002/hbm.21239. [Epub ahead of print].
- 403.Kochunov P, Glahn DC, Lancaster J, **Thompson PM**, Kochunov V, Rogers B, Fox P, Blangero J, Williamson DE. (2011). Fractional Anisotropy of Cerebral White Matter and Thickness of Cortical Gray Matter across the Lifespan, **NeuroImage**, 58(1):14-49, 2011 May 26. [Epub ahead of print].
- 404.Jahanshad N; Liang Zhan, MS; Matt A Bernstein, PhD; Bret J Borowski, RTR; Clifford R Jack, Jr., MD; Arthur W Toga, PhD; **Thompson PM** (2011). Trade-offs between directional and spatial resolution in diffusion tensor imaging within clinical time constraints, submitted to **NeuroImage**, Sept. 14 2010, under revision, June 2011.
- 405.Joshi AA, Lepore N, Joshi SH, Lee AD, Barysheva M, Stein JL, Ryles A, Biglarian S, McMahon KL, Johnson K, de Zubicaray GI, Martin NG, Wright MJ, Toga AW, **Thompson PM** (2011). The Contribution of Genes to Cortical Thickness and Volume, **NeuroReport**, 2011 Feb 16;22(3):101-5.
- 406.Chiang MC; Katie McMahon; Greig de Zubicaray; Nicholas Martin; Ian Hickie; Arthur Toga; Margaret Wright;

- Thompson PM** (2010). Genetics of White Matter Development: A DTI Study of 705 Twins and Their Siblings Aged 12 to 29, **NeuroImage**, 2011 Feb 1;54(3):2308-17. Epub 2010 Oct 13.
- 407.Goh A, Lenglet C, **Thompson PM**, Vidal R (2011). *A Nonparametric Riemannian Framework for Processing High Angular Resolution Diffusion Images (HARDI) and its Application to ODF-based morphometry*, **NeuroImage**, 2011 Jun 1;56(3):1181-201. Epub 2011 Feb 1.
- 408.Jahanshad N, Jason L. Stein<sup>1</sup>, Marina Barysheva<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>4,5</sup>, Stuart MacGregor<sup>5</sup>, Alex W. Hewitt<sup>6</sup>, Christopher J. Hammond<sup>7</sup>, Terri L. Young<sup>8</sup>, David A. Mackey<sup>6,9,10</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** (2011). **Diffusion imaging reveals visual pathway alterations in carriers of a common variant in the *Raftlin* gene**, submitted to *Nature Neuroscience*: Oct. 3, 2010.
- 409.Iglesias JE, Liu B, **Thompson PM**, Tu Z (2011). *Robust Brain Extraction Across Datasets*, **IEEE Transactions on Medical Imaging**, 2011 Sep;30(9):1617-34.
- 410.Yotter RA, Nenadic I, Ziegler G, **Thompson PM**, Gaser C (2011). Local cortical surface complexity maps from spherical harmonic reconstructions, **NeuroImage**, 2011 Jun 1;56(3):961-73. Epub 2011 Feb 17.
- 411.Kumar R,<sup>1</sup> Haidang D. Nguyen,<sup>1</sup> Jennifer A. Ogren,<sup>2</sup> Paul M. Macey,<sup>2,5</sup> **Paul M. Thompson<sup>4,5</sup>** Gregg C. Fonarow,<sup>3</sup> Michele A. Hamilton,<sup>3</sup> Ronald M. Harper,<sup>1,5</sup> and Mary A. Woo (2011). **Global and regional putamen volume loss in patients with heart failure**, **European Journal of Heart Failure**, 2011 Jun;13(6):651-5. Epub 2011 Mar 9.
- 412.Braber AD, Ent DV, Boomsma DI, Cath DC, Veltman DJ, **Thompson PM**, Geus EJ. (2011). White Matter Differences in Monozygotic Twins Discordant or Concordant for Obsessive-Compulsive Symptoms: A Combined Diffusion Tensor Imaging/Voxel-Based Morphometry Study, **Biological Psychiatry**, 2011 May 4. [Epub ahead of print].
- 413.Hibar D, Jason L. Stein<sup>1</sup>, Omid Kohannim<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Andrew J. Saykin<sup>2</sup>, Li Shen<sup>2</sup>, Sungeun Kim<sup>2</sup>, Nathan Pankratz<sup>3</sup>, Tatiana Foroud<sup>3</sup>, Matthew J. Huentelman<sup>4</sup>, Steven G. Potkin<sup>5</sup>, Clifford R. Jack, Jr.<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Voxelwise gene-wide association study (vGeneWAS): multivariate gene-based association testing in 731 elderly subjects**, **NeuroImage**, 2011 Jun 15;56(4):1875-1891. Epub 2011 Apr 8.
- 414.Kohannim O, Hibar D, Jason L. Stein, Neda Jahanshad<sup>1</sup>, Andrew J. Saykin<sup>2</sup>, Li Shen<sup>2</sup>, Sungeun Kim<sup>2</sup>, Nathan Pankratz<sup>3</sup>, Tatiana Foroud<sup>3</sup>, Matthew J. Huentelman<sup>4</sup>, Steven G. Potkin<sup>5</sup>, Clifford R. Jack, Jr.<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (2010). *Boosting power to detect genetic associations in imaging using multi-locus, genome-wide scanning and ridge regression, to be submitted to Human Brain Mapping, Nov. 1 2010.*
- 415.Raji CA, Oscar L. Lopez, Lewis H. Kuller, Owen T. Carmichael, W. T. Longstreth, Jr., H. Michael Gach, John Boardman, Charles B. Bernick, **Paul M. Thompson**, James T. Becker (2011). *White Matter Lesions, and Brain Gray Matter Volume in Cognitively Normal Elderly*, **Neurobiol Aging**. 2011 Sep 22. [Epub ahead of print].
- 416.Wong TW, Lui LM, **Thompson PM**, Chan TF (2012). *Intrinsic Feature Extraction on Hippocampal Surfaces and its Applications*, **SIAM Journal on Imaging Sciences**, 5(2): 746-768 (23 pages).

417. Aganj I, Lenglet C, Jahanshad N, Yacoub E, Harel N, **Thompson PM**, Sapiro G (2011). *A Hough Transform Global Probabilistic Approach to Multiple-Subject Diffusion MRI Tractography*, **Medical Image Analysis**, 2011 Aug;15(4):414-25. Epub 2011 Jan 26. Preprint at <http://www.ima.umn.edu/preprints/apr2010/2305.pdf>.
418. Hua X, Gutman B, Boyle C, Rajagopalan P, Leow AD, Yanovsky I, Anand R, Kumar A, Toga AW, Jack Jr CR, Schuff N, Alexander GE, Chen K, Reiman EM, Weiner MW, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative (2011). *Accurate Measurement of Brain Changes in Longitudinal MRI Scans using Tensor-Based Morphometry*, **NeuroImage**, epub Feb 2011.
419. Ewers M, Frisoni GB, Teipel SJ, Grinberg LT, Amaro E Jr, Heinsen H, **Thompson PM**, Hampel H (2011). *Staging Alzheimer's disease progression with Neuroimaging*, **Progress in Neurobiology**, 2011 Jun 22. [Epub ahead of print].
420. Pievani M, Galluzzi S, Bonetti M, **Thompson PM**, Frisoni GB (2011). *APOE4 is associated with greater atrophy in disease-specific regions of the hippocampal formation in Alzheimer's disease: an in vivo MR study*, **NeuroImage**, 2011 Apr 1;55(3):909-19. Epub 2011 Jan 9.
421. Cohen RA, Harezlak J, Gongvatana A, Buchthal S, Schifitto G, Clark U, Paul R, Taylor M, **Thompson P**, Tate D, Alger J, Brown M, Zhong J, Campbell T, Singer E, Daar E, McMahon D, Tso Y, Yiannoutsos CT, Navia B; HIV Neuroimaging Consortium. *Cerebral metabolite abnormalities in human immunodeficiency virus are associated with cortical and subcortical volumes*. **J Neurovirol**. 2010 Dec;16(6):435-44. Epub 2010 Oct 20.
422. Rossi R, Lanfredi M, Pievani M, Boccardi M, Giannakopoulos P, **Thompson PM**, Rossi G, Frisoni GB (2012). *Volumetric differences in hippocampal subdivisions in Borderline Personality and Bipolar disorders: an MRI study*, **Psychiatry Research: Neuroimaging** 2012 Aug-Sep;203(2-3):132-8.
423. Leow AD, J.J. GadElkarim<sup>1,2</sup>, L. Zhan<sup>3</sup>, S.L. Yang<sup>1</sup>, A.F. Zhang<sup>1</sup>, L.L. Altshuler<sup>4</sup>, M. Lamar<sup>1</sup>, O. Ajilore<sup>1</sup>, **P.M. Thompson<sup>3</sup>**, A. Kumar<sup>1</sup> (2011). **Probabilistic Tractography using the Tensor Distribution Function: TDF-Tract, submitted to Magnetic Resonance in Medicine, Feb. 2011.**
424. Rajagopalan P, Hua X, Jack CR, Weiner MW, Toga AW, **Thompson PM**, and the ADNI (2011). **Homocysteine levels are associated with regional brain volumes in 732 elderly subjects**, **NeuroReport**, 2011 Jun 11;22(8):391-5.
425. Cole J, Weinberger DR, Mattay VS, Cheng X, Toga AW, Thompson PM, Powell-Smith G, Cohen-Woods S, Simmons A, McGuffin P, Fu CH (2011). **No effect of 5HTTLPR or BDNF Val66Met on the hippocampus in major depression or healthy individuals**, **Genes, Brains and Behavior**, 2011 Oct;10(7):756-764. doi: 10.1111/j.1601-183X.2011.00714.x. Epub 2011 Jul 12.
426. Foland-Ross LC, **Paul M. Thompson, PhD<sup>1</sup>**; Catherine A. Sugar, PhD<sup>2,3</sup>; Katherine L. Narr PhD<sup>1</sup>; Conor Penfold, BA<sup>2</sup>; Roxanne Vasquez, BA<sup>2</sup>; Jennifer Townsend, BA<sup>2</sup>; Jeffrey Fischer, BA<sup>2</sup>; Priya Saharan, BS<sup>1</sup>; Carrie Bearden, PhD<sup>2</sup>, Lori L. Altshuler, MD (2011). **No evidence of abnormal amygdalar or hippocampal structure in euthymic adults with bipolar disorder not treated with lithium, to be submitted to Neuropsychopharmacology, March 2011.**
427. Jamie D. Feusner, M.D., Donatello Arienzo, Ph.D., Wei Li, B.S, Liang Zhan, M.S, Johnson GadElkarim B.S., **Paul Thompson, Ph.D.**, Alex Leow, M.D., Ph.D. (2011). **White matter integrity and symptom correlates in body dysmorphic disorder, submitted to Biological Psychiatry, April 2011.**
428. Colby JB, Soderberg L, Lebel C, Dinov ID, **Thompson PM**, Sowell ER (2011). Along-tract statistics allow for

- enhanced tractography analysis, **NeuroImage**, 2011 Nov 9. [Epub ahead of print].
- 429.Looi J, Rajagopalan P, Walterfang M, Madsen S, **Thompson PM**, Matthew Macfarlane, Chua P, Velakoulis D (2011). Differential putaminal morphology in Huntington's disease, frontotemporal dementia and Alzheimer's disease, *Aust N Z J Psychiatry*. 2012 Dec;46(12):1145-58.
- 430.Jack CR Jr, Barkhof F, Bernstein MA, Cantillon M, Cole PE, Decarli C, Dubois B, Duchesne S, Fox NC, **Frisoni GB**, Hampel H, Hill DL, Johnson K, Mangin JF, Scheltens P, Schwarz AJ, Sperling R, Suhy J, **Thompson PM**, Weiner M, Foster NL (2011). **Steps to standardization of hippocampal volumetry as a biomarker for clinical trials and diagnostic criterion for Alzheimer's disease**, *Journal of ALZHEIMERS & DEMENTIA*, 2011 Jul;7(4):474-485.
- 431.Wang YL, Shi J, Yin X, Gu X, Chan TF, Yau ST, Toga AW, **Thompson PM** (2012). *Brain Surface Conformal Parameterization with the Ricci Flow*, *IEEE Trans Med Imaging*. 2012 Feb;31(2):251-64.
- 432.Yang Y, Nuechterlein KH, Phillips OR, Gutman B, Kurth F, Dinov I, **Thompson PM**, Asarnow RF, Toga AW, Narr KL (2011). Disease and Genetic Contributions toward Local Tissue Volume Disturbances in Schizophrenia: a Tensor Based Morphometry Study, **Human Brain Mapping**, doi: 10.1002/hbm.21349. [Epub ahead of print].
- 433.Tameem HZ, Ardekani S, Seeger L, Thompson PM, Sinha US (2011). **Initial results on development and application of statistical atlas of femoral cartilage in osteoarthritis to determine sex differences in structure: data from the Osteoarthritis Initiative**, *J Magn Reson Imaging*. 2011 Aug;34(2):372-83. doi: 10.1002/jmri.22643. Epub 2011 Jun 20.
- 434.Jahanshad N, Kohannim O, Hibar DP, Stein JL, McMahon KL, de Zubicaray GI, Medland SE, Montgomery GW, Whitfield JB, Martin NG, Wright MJ, Toga AW, **Thompson PM (2012)**. [Brain structure in healthy adults is related to serum transferrin and the H63D polymorphism in the HFE gene](#), *Proc Natl Acad Sci U S A*. 2012 Apr 3;109(14):E851-9. Epub 2012 Jan 9.
- 435.Cherbuin N, Luders E, Chou YY, **Thompson PM**, Toga AW, Anstey KJ (2011). [Right, left, and center: How does cerebral asymmetry mix with callosal connectivity?](#), **Human Brain Mapping**, 2012 Mar 15. doi: 10.1002/hbm.22022. [Epub ahead of print].
- 436.Lutkenhoff E, Katherine H. Karlsgodt, Jason Stein, **Thompson PM**, Tyrone D. Cannon, J. David Jentsch (2012). **Structural and Functional Neuroimaging Phenotypes in Dysbindin Mutant Mice**, [Neuroimage](#). 2012 Aug 1;62(1):120-9. doi: 10.1016/j.neuroimage.2012.05.008. Epub 2012 May 11.
- 437.Becker JT, Sanders J, Madsen SK, Ragin A, Kingsley L, Maruca V, Cohen B, Goodkin K, Martin E, Miller EN, Sacktor N, Alger JR, Barker PB, Saharan P, Carmichael OT, **Thompson PM**; Multicenter AIDS Cohort Study. (2011). Subcortical brain atrophy persists even in HAART-regulated HIV disease., **Brain Imaging and Behavior**, 2011 Jun;5(2):77-85. [Cover Image].
- 438.Duarte-Carvajalino JM, Neda Jahanshad, Christophe Lenglet, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, **Thompson PM**, Sapiro G (2011). *Hierarchical Topological Network Analysis of Anatomical Human Brain Connectivity and Differences related to Sex and Kinship*, [Neuroimage](#). 2012 Feb 15;59(4):3784-804. doi: 10.1016/j.neuroimage.2011.10.096. Epub 2011 Nov 12.
439. **Annapaola Prestia, PsyD <sup>(1)</sup>, Annalisa Baglieri, PsyD <sup>(2)</sup>, Michela Pievani, PhD <sup>(1)</sup>, Matteo Bonetti, MD <sup>(3)</sup>, Paul**



- E. Rasser, MSc, <sup>(4)</sup>, **Paul M. Thompson, PhD** <sup>(5)</sup>, and Giovanni B. Frisoni, MD (2011). The *in vivo* topography of cortical changes in healthy aging and prodromal Alzheimer's disease. **Clinical Neurophysiology** [invited paper], submitted June 1 2011.
440. Nitin Gogtay<sup>1†</sup>, Xue Hua<sup>2†</sup>, Reva Stidd<sup>1</sup>, Christina P. Boyle<sup>2</sup>, Suh Lee<sup>2</sup>, Alex Chavez<sup>1</sup>, Jay N. Giedd<sup>1</sup>, Liv Clasen<sup>1</sup>, Arthur W. Toga<sup>2</sup>, Judith L. Rapoport<sup>1</sup>, and **Paul M. Thompson**<sup>2</sup> (2012). Delayed white matter growth trajectory in young nonpsychotic siblings of patients with childhood-onset schizophrenia, Arch Gen Psychiatry. 2012 Sep;69(9):875-84. doi: 10.1001/archgenpsychiatry.2011.2084.
441. Liana G. Apostolova<sup>1,2</sup>, Sona Babakchanian<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Amity E. Green<sup>3</sup>, Dimitar Zlatev<sup>4</sup>, Yi-Yu Chou<sup>5</sup>, Clifford R. Jack, Jr <sup>6</sup>, Ronald C. Petersen<sup>6</sup>, Paul S. Aisen<sup>7</sup>, Jeffrey L. Cummings<sup>8</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson**<sup>1,2</sup> (2011). **Ventricular atrophy and its clinical correlates in the imaging cohort from the ADCS MCI Donepezil/Vitamin E study, to be submitted, June 2011.**
442. Kristy S. Hwang<sup>1,2</sup>, Giovanni Coppola<sup>1</sup>, Sterling Johnson<sup>3,4,5</sup>, **Paul M. Thompson**<sup>1,2</sup>, Jason J. Lee<sup>1</sup>, Jeffrey L. Cummings<sup>6</sup>, Liana G. Apostolova<sup>1,2</sup> (2011). **Mapping the effects of TOMM40 and TOMM40 polyT polymorphism on hippocampal atrophy in cognitively normal elderly and MCI, to be submitted, June 2011.**
443. Boccardi M, Frisoni GB, Hare RD, Cavedo E, Najt P, Pievani M, Rasser PE, Laakso MP, Aronen HJ, Repo-Tiihonen E, Vaurio O, **Thompson PM**, Tiihonen J. (2011). Cortex and amygdala morphology in psychopathy. **Psychiatry Res.** 2011 Jun 13. [Epub ahead of print].
444. Wang Y, Song Y, Rajagopalan P, An T, Liu K, Chou YY, Gutman B, Toga AW, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative (2011). *Surface-based TBM Boosts Power to Detect Disease Effects on the Brain: An N=804 ADNI Study*, **Neuroimage**. 2011 Jun 15;56(4):1993-2010. Epub 2011 Mar 23.
445. Foland-Ross LC, Bookheimer SY, Lieberman MD, Sugar CA, Townsend JD, Fischer J, Torrisi S, Penfold C, Madsen SK, Thompson PM, Altshuler LL (2011). *Normal amygdala activation but deficient ventrolateral prefrontal hypoactivation in adults with bipolar disorder during euthymia*, **NeuroImage**, 2011 Aug 10. [Epub ahead of print].
446. Dennis EL, Ian H. Gotlib, **Thompson PM**, Moriah E. Thomason (2011). Anxiety Modulates Insula Recruitment in Resting-State fMRI in Youth and Adults, **Brain Connectivity**, 2011;1(3):245-54. doi: 10.1089/brain.2011.0030..
447. Zhan L, Neda Jahanshad<sup>1</sup>, Daniel B. Ennis PhD<sup>2</sup>, Matthew A. Bernstein PhD<sup>3</sup>, Bret J. Borowski RTR<sup>3</sup>, Clifford R. Jack Jr. MD<sup>3</sup>, Arthur W. Toga PhD<sup>1</sup>, Alex D. Leow MD PhD<sup>4,5</sup>, **Thompson PM** (2012). **Angular versus spatial resolution trade-offs for diffusion imaging under time constraints**, Hum Brain Mapp. 2012 Apr 21. doi: 10.1002/hbm.22094.
448. Hibar D\*, Omid Kohannim\*, Jason L. Stein, Chiang MC, **Thompson PM** (2011). Multilocus genetic analysis of brain images, **Frontiers in Statistical Genetics and Methodology**, Oct 1 2011 [online only].
449. Kochunov P<sup>1,2</sup>, Glahn DC<sup>3</sup>, Nichols TE<sup>4</sup>, Winkler A<sup>3</sup>, Hong E<sup>1</sup>, Holcomb HH<sup>1</sup>, Stein JL<sup>5</sup>, **Thompson PM**<sup>5</sup>, Curran JE<sup>2</sup>, Carless MA<sup>2</sup>, Olvera RL<sup>5</sup>, Johnson MP<sup>2</sup>, Cole SA<sup>2</sup>, Kent J<sup>2</sup>, Kochunov V<sup>1</sup>, Blangero J<sup>2</sup> (2011). Genetic Analysis of Cortical Thickness and Fractional Anisotropy of Water Diffusion in the Brain, **Frontiers in Neurogenomics**, Oct 19 2011 [online only].
450. Riverol M, Becker JT, Oscar L. Lopez, Cyrus Raji, **Paul M. Thompson**, Owen Carmichael, H. Michael Gach,

Will Longstreth, Linda Fried, Russell P. Tracy, Lewis H. Kuller, M.D. (2012). **Cystatin C, Gray Matter Volume and Cognitive Function Among Cognitively Normal Elders**, submitted to *Brain*, Sept 1 2011.

451. Vounou M, Janousova E, Wolz R, Stein JL, Thompson PM, Rueckert D, Montana G, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Sparse reduced-rank regression detects genetic associations with voxel-wise longitudinal phenotypes in Alzheimer's disease**, *NeuroImage*, 2012 Mar;60(1):700-16. Epub 2011 Dec 22.
452. Toga AW, Dinov ID, **Thompson PM**, Woods RP, Van Horn JD, Shattuck DW, Parker DS (2011). **The Center for Computational Biology –Resources, Achievements and Challenges**, *J Am Med Inform Assoc*. 2012 Mar-Apr;19(2):202-6. Epub 2011 Nov 10.
453. Di Paola M, Luders E, Cherubini A, Sanchez-Castaneda C, **Thompson PM**, Toga AW, Caltagirone C, Orobello S, Elifani F, Squitieri F, Sabatini U (2012). Multimodal MRI analysis of the corpus callosum reveals white matter differences in presymptomatic and early Huntington's Disease, *Cerebral Cortex*, 2012 Jan 5. [Epub ahead of print].
454. Ming-Chang Chiang<sup>1,2</sup>, Marina Barysheva<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Kori Johnson<sup>3</sup>, Nicholas G. Martin<sup>5</sup>, Arthur W. Toga<sup>2</sup>, Margaret J. Wright<sup>5</sup>, **Paul M. Thompson<sup>2</sup>** (2012). Gene Network Effects on Brain Microstructure and Intellectual Performance Identified in 472 Twins, *Journal of Neuroscience*, published online June 2012.
455. Julio Villalon MD<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Elliott Beaton PhD<sup>2</sup>, Arthur W. Toga PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>1</sup>**, Tony J. Simon PhD<sup>2</sup> (2013). White matter microstructural abnormalities in children with chromosome 22q11.2 deletion syndrome, Fragile X or Turner syndrome as evidenced by diffusion tensor imaging, *NeuroImage*, in press, April 10 2013.
456. Hegarty CE, Foland-Ross LC, Narr KL, Townsend JD, Bookheimer SY, **Thompson PM**, Altshuler LL (2012). Anterior cingulate activation relates to local cortical thickness, *Neuroreport*. 2012 May 9;23(7):420-4.
457. Jason L. Stein<sup>1\*</sup>, Sarah E. Medland<sup>2,3,4\*</sup>, Alejandro Arias Vasquez<sup>5,6\*</sup>, Derrek P. Hibar<sup>1\*</sup>, Rudy E. Senstad<sup>1</sup>, Anderson M. Winkler<sup>7</sup>, Roberto Toro<sup>8,9,10</sup>, Katja Appel<sup>11,12</sup>, Richard Bartecek<sup>13</sup>, Ørjan Bergmann<sup>14</sup>, Manon Bernard<sup>15</sup>, Andrew A. Brown<sup>14,16</sup>, Dara M. Cannon<sup>17</sup>, Mallar Chakravarty<sup>18</sup>, Andrea Christoforou<sup>19,20</sup>, Martin Domin<sup>21</sup>, Oliver Grimm<sup>22</sup>, Marisa Hollinshead<sup>23,24</sup>, Avram J. Holmes<sup>23</sup>, Georg Homuth<sup>25</sup>, Jouke-Jan Hottenga<sup>26</sup>, Camilla Langan<sup>17</sup>, Lorna M. Lopez<sup>27,28</sup>, Narelle K. Hansell<sup>2</sup>, Kristy S. Hwang<sup>1,29</sup>, Sungeun Kim<sup>30,31</sup>, Gonzalo Laje<sup>32</sup>, Phil H. Lee<sup>33,34</sup>, Xinmin Liu<sup>32,35</sup>, Eva Loth<sup>36</sup>, Anbarasu Lourdasamy<sup>36</sup>, Susana Muñoz Maniega<sup>27,37,38</sup>, Morten Mattingsdal<sup>14,39</sup>, Sebastian Mohnke<sup>40</sup>, Kwangsik Nho<sup>30,41</sup>, Allison C. Nugent<sup>42</sup>, Carol O'Brien<sup>43</sup>, Martina Pappmeyer<sup>44</sup>, Benno Pütz<sup>45</sup>, Adaikalavan Ramasamy<sup>46</sup>, Jerod Rasmussen<sup>47</sup>, Mark Rijpkema<sup>48</sup>, Shannon L. Risacher<sup>30</sup>, Emma J. Rose<sup>43</sup>, Mina Ryten<sup>49</sup>, Li Shen<sup>30,31</sup>, Emma Sprooten<sup>44</sup>, Eric Strengman<sup>50</sup>, Alexander Teumer<sup>25</sup>, Daniah Tratzuni<sup>49</sup>, Jessica Turner<sup>51</sup>, Kristel van Eijk<sup>50</sup>, Theo G.M. van Erp<sup>47</sup>, Marie-Jose van Tol<sup>52,53</sup>, Katharina Wittfeld<sup>11</sup>, Christiane Wolf<sup>45</sup>, Saskia Woudstra<sup>54</sup>, Andre Aleman<sup>53</sup>, Saud Alhusaini<sup>55</sup>, Laura Almasy<sup>56</sup>, Elisabeth B. Binder<sup>45</sup>, David G. Brohawn<sup>33</sup>, Rita M. Cantor<sup>57</sup>, Melanie A. Carless<sup>56</sup>, Aiden Corvin<sup>43</sup>, Michael Czisch<sup>45</sup>, Joanne E. Curran<sup>56</sup>, Gail Davies<sup>28</sup>, Norman Delanty<sup>55,58</sup>, Chantal Depondt<sup>59</sup>, Ravi Duggirala<sup>56</sup>, Thomas D. Dyer<sup>56</sup>, Susanne Erk<sup>60</sup>, Jesen Fagerness<sup>61</sup>, Peter T. Fox<sup>62</sup>, Nelson B. Freimer<sup>57</sup>, Michael Gill<sup>43</sup>, Harald H.H. Göring<sup>56</sup>, David Hoehn<sup>45</sup>, Norbert Hosten<sup>21</sup>, Matthew P. Johnson<sup>56</sup>, Dalia Kasperaviciute<sup>63</sup>, Jack W. Kent, Jr.<sup>56</sup>, Peter Kochunov<sup>62,64</sup>, Jack L. Lancaster<sup>62</sup>, Stephen M. Lawrie<sup>44</sup>, David C. Liewald<sup>27</sup>, René Mandl<sup>13</sup>, Mar Matarin<sup>63</sup>, Manuel Mattheisen<sup>65,66</sup>, Eva Meisenzahl<sup>67</sup>, Ingrid Melle<sup>14,68</sup>, Eric K. Moses<sup>56</sup>, Thomas W. Mühleisen<sup>65,66</sup>, Matthias Nauck<sup>69</sup>, Markus M. Nöthen<sup>65,66</sup>, Rene L. Olvera<sup>70</sup>, Massimo Pandolfo<sup>59</sup>, G. Bruce Pike<sup>71</sup>, Ralf Puls<sup>21</sup>, Ivar Reinvang<sup>72,73</sup>, Miguel E. Rentería<sup>2,74</sup>, Marcella Rietschel<sup>22</sup>, Joshua L. Roffman<sup>34</sup>, Natalie A. Royle<sup>27,37,38</sup>, Dan Rujescu<sup>67</sup>, Jonathan Savitz<sup>42,75</sup>, Hugo G. Schnack<sup>13</sup>, Knut Schnell<sup>76,77</sup>, Nina Seiferth<sup>78</sup>, Colin Smith<sup>79</sup>, Vidar M.

Steen<sup>19,20</sup>, Maria C. Valdés Hernández<sup>27,37,38</sup>, Martijn Van den Heuvel<sup>13</sup>, Nic J. van der Wee<sup>52</sup>, Neeltje E.M. Van Haren<sup>13</sup>, Joris A. Veltman<sup>5</sup>, Henry Völzke<sup>80</sup>, Robert Walker<sup>79</sup>, Ingrid Agartz<sup>14,81</sup>, Dorret I. Boomsma<sup>26</sup>, Gianpiero L. Cavalleri<sup>55</sup>, Anders M. Dale<sup>82,83</sup>, Srdjan Djurovic<sup>14,84</sup>, Wayne C. Drevets<sup>42,75</sup>, Peter Hagoort<sup>48,85</sup>, Jeremy Hall<sup>44</sup>, Andreas Heinz<sup>78</sup>, Clifford R. Jack, Jr.<sup>86</sup>, Tatiana M. Foroud<sup>31,87</sup>, Stephanie Le Hellard<sup>19,20</sup>, Fabio Macciardi<sup>47</sup>, Grant W. Montgomery<sup>2</sup>, Jean Baptiste Poline<sup>88</sup>, David J. Porteous<sup>27,89</sup>, J. Cooper Roddey<sup>82</sup>, Sanjay M. Sisodiya<sup>63</sup>, John M. Starr<sup>27,90</sup>, Jessika Sussmann<sup>44</sup>, Arthur W. Toga<sup>1</sup>, Dick J. Veltman<sup>54</sup>, Henrik Walter<sup>60,77</sup>, Michael W. Weiner<sup>91,92</sup>, the Alzheimer's Disease Neuroimaging Initiative, IMAGEN Consortium, Saguenay Youth Study Group, Joshua C. Bis<sup>93</sup>, M. Arfan Ikram<sup>94,95,96</sup>, Albert V. Smith<sup>97,98</sup>, Christophe Tzourio<sup>99</sup>, Meike W. Vernooij<sup>94,95,96</sup>, Lenore J. Launer<sup>100</sup>, Charles DeCarli<sup>101</sup>, Sudha Seshadri<sup>102,103</sup>, for the CHARGE Consortium, Ole A. Andreassen<sup>14,68</sup>, Liana G. Apostolova<sup>1,29</sup>, Mark E. Bastin<sup>27,37,38,104</sup>, John Blangero<sup>56</sup>, Han G. Brunner<sup>5</sup>, Randy L. Buckner<sup>23,24,61</sup>, Sven Cichon<sup>65,66,105</sup>, Giovanni Coppola<sup>29,106</sup>, Greig I. de Zubicaray<sup>74</sup>, Ian J. Deary<sup>27,28</sup>, Gary Donohoe<sup>43</sup>, Eco J.C. de Geus<sup>26</sup>, Thomas Espeseth<sup>72,73,107</sup>, Guillén Fernández<sup>48,108</sup>, David C. Glahn<sup>7,109</sup>, Hans J. Grabe<sup>11,110</sup>, John Hardy<sup>49</sup>, Hilleke E. Hulshoff Pol<sup>13</sup>, Mark Jenkinson<sup>111</sup>, René S. Kahn<sup>13</sup>, Colm McDonald<sup>17</sup>, Andrew M. McIntosh<sup>44</sup>, Francis J. McMahon<sup>32</sup>, Katie L. McMahon<sup>112</sup>, Andreas Meyer-Lindenberg<sup>22</sup>, Derek W. Morris<sup>43</sup>, Bertram Müller-Myhsok<sup>45</sup>, Thomas E. Nichols<sup>111,113</sup>, Roel A. Ophoff<sup>13,57</sup>, Tomas Paus<sup>18</sup>, Zdenka Pausova<sup>15</sup>, Brenda W. Penninx<sup>52,54,114</sup>, Steven G. Potkin<sup>47</sup>, Philipp G. Sämann<sup>45</sup>, Andrew J. Saykin<sup>30,31,87</sup>, Gunter Schumann<sup>36</sup>, Jordan W. Smoller<sup>33,34</sup>, Joanna M. Wardlaw<sup>27,37,38</sup>, Michael E. Weale<sup>46</sup>, Margaret J. Wright<sup>2#</sup>, Barbara Franke<sup>5,6#</sup>, Nicholas G. Martin<sup>2#</sup>, **Paul M. Thompson<sup>1#</sup>**, for the Enhancing NeuroImaging Genetics through Meta-Analysis (ENIGMA) Consortium (2012). Identification of common variants associated with human hippocampal and intracranial volumes., *Nature Genetics*, 2012 Apr 15. doi: 10.1038/ng.2250. [Epub ahead of print].

458. Joshua C. Bis, PhD<sup>1\*</sup>, Charles DeCarli, MD<sup>2\*</sup>, Albert Vernon Smith PhD<sup>3,4\*</sup>, Fedde van der Lijn, PhD<sup>5\*</sup>, Fabrice Crivello, PhD<sup>6\*</sup>, Myriam Fornage, PhD<sup>7,8\*</sup>, Stephanie Debette, MD, PhD<sup>9,10\*\*</sup>, Joshua M. Shulman, MD<sup>11,12</sup>, Helena Schmidt MD, PhD<sup>13</sup>, Velandai Srikanth, FRACP, PhD<sup>14</sup>, Maaïke Schuur, MD, PhD<sup>15,16</sup>, Lei Yu, PhD<sup>17</sup>, Sigurdur Sigurdsson, MSc<sup>3</sup>, Benjamin F.J. Verhaaren, MD<sup>15,18</sup>, Anita L. DeStefano, PhD<sup>19-21</sup>, Jean-Charles Lambert, PhD<sup>22-24</sup>, Clifford R. Jack, MD<sup>25</sup>, Maksim Struchalin, MSc<sup>15#</sup>, Jim Stankovich, PhD<sup>26</sup>, Carla A. Ibrahim-Verbaas, MD<sup>15,16</sup>, Debra Fleischman, PhD<sup>17</sup>, XX, Alex Zijdenbos, PhD<sup>27</sup>, Tom den Heijer, MD, PhD<sup>15,16</sup>, Seung-Hoan Choi, BS<sup>19</sup>, Bernard Mazoyer, MD, PhD<sup>28</sup>, Laura H. Coker, PhD<sup>29</sup>, Christian Enzinger, MD<sup>30</sup>, Matthew Brown, FRACP, PhD<sup>31</sup>, Najaf Amin, MD, PhD<sup>15</sup>, Konstantinos Arfanakis, PhD<sup>17</sup>, XX, Mark van Buchem, MD, PhD<sup>32</sup>, Renée F.A.G. de Bruijn, MD<sup>15,16</sup>, Alexa Beiser, PhD<sup>19-21</sup>, Carole Dufouil, PhD<sup>9</sup>, Juebin Huang, MD, PhD<sup>33</sup>, Margherita Cavalieri, MD<sup>30</sup>, Russell Thomson, PhD<sup>26</sup>, Wiro J. Nissen, PhD<sup>5,18</sup>, Lori B. Chibnik, PhD<sup>11,12</sup>, Gauti K. Gislason, MSc<sup>3</sup>, Albert Hofman, MD, PhD<sup>15</sup>, Aleksandra Pikula, MD<sup>20</sup>, Philippe Amouyel, MD<sup>22-24,34</sup>, PhD, Kevin B. Freeman, PhD<sup>35</sup>, Thanh Phan, FRACP, PhD<sup>14</sup>, Ben A. Oostra, PhD<sup>36</sup>, Jason L. Stein<sup>37</sup>, Sarah E. Medland<sup>38,39†</sup>, Alejandro Arias Vasquez<sup>40,41†</sup>, Margaret J. Wright<sup>38†</sup>, Barbara Franke<sup>40,41†</sup>, Nicholas G. Martin<sup>38†</sup>, **Paul M. Thompson<sup>37†</sup>**, for the ENIGMA Consortium<sup>†</sup>, Michael A. Nalls, PhD<sup>42</sup>, Andre G. Uitterlinden, PhD<sup>43</sup>, Rhoda Au, PhD<sup>20,21</sup>, Alexis Elbaz, MD, PhD<sup>9</sup>, Richard Beare, PhD<sup>14</sup>, John C. van Swieten, MD<sup>16</sup>, Oscar Lopez, MD<sup>44</sup>, XX, Tamara B. Harris<sup>45</sup>, MD, Monique M.B. Breteler, MD, PhD<sup>15</sup>, Philip L. De Jager MD, PhD<sup>11,12</sup>, James Becker, MD<sup>44</sup>, Meike W. Vernooij, MD, PhD<sup>15,18</sup>, David Knopman, MD<sup>46</sup>, Franz Fazekas, MD<sup>30</sup>, Philip A. Wolf, MD<sup>20,21</sup>, Aad van der Lugt, MD, PhD<sup>18</sup>, Vilmundur Gudnason, MD, MSc<sup>3,4</sup>, W.T. Longstreth Jr. MD<sup>1,47,48</sup>, Patrick Demoy, MD<sup>31</sup>, David A. Bennett, MD<sup>17</sup>, Cornelia M. van Duijn PhD<sup>15\*\*</sup>, Thomas H. Mosley PhD<sup>49\*\*</sup>, Reinhold Schmidt MD, PhD<sup>30\*\*</sup>, Christophe Tzourio, MD<sup>9\*\*</sup>, Lenore J. Launer PhD<sup>45\*\*</sup>, M. Arfan Ikram MD, PhD<sup>15\*\*</sup>, Sudha Seshadri MD<sup>20,21\*\*</sup>, and the CHARGE consortium (2012). Common variants at 12q14 and 12q24 are associated with hippocampal volume. *Nature Genetics*, 2012 Apr 15. doi: 10.1038/ng.2237. [Epub ahead of print].

459. Napatkamon Ayutyanont, Ph.D.<sup>1,12</sup>, Kewei Chen, Ph.D.<sup>1,2,12</sup>, Jessica B.S. Langbaum, Ph.D.<sup>1,12</sup>, Adam Fleisher, M.D.<sup>1,12</sup>, Cole Reschke, B.S.<sup>1,12</sup>, Wendy Lee, M.S.<sup>1,14</sup>, Xiaofen Liu, M.S.<sup>1,12</sup>, Gene E Alexander, Ph.D.<sup>3,12</sup>, Dan Bandy, M.S.<sup>1,12</sup>, Norman L. Foster, M.D.<sup>5</sup>, Michael W. Weiner, M.D.<sup>6,7,8</sup>, Robert A. Koeppe, Ph.D.<sup>9</sup>, **Paul Thompson, Ph.D.**, William J. Jagust, M.D.<sup>10</sup>, Eric M. Reiman, M.D.<sup>1,4,11,12</sup>, and the Alzheimer's Disease

- Neuroimaging Initiative (2011). Letter to the Editor, Re: Gomar JJ, Bobes-Bascaran MT, Conejero-Goldberg C, Davies P, Goldberg TE. Utility of Combinations of Biomarkers, Cognitive Markers, and Risk Factors to Predict Conversion From Mild Cognitive Impairment to Alzheimer Disease in Patients in the Alzheimer's Disease Neuroimaging Initiative. *Arch Gen Psychiatry* 2011;68:961-969.
460. Yang Y, Anand A, Joshi<sup>2</sup>, Shantanu H. Joshi<sup>1</sup>, Laura A. Baker<sup>5</sup>, Katherine L. Narr<sup>1</sup>, Adrian Raine<sup>3</sup>, **Paul M. Thompson<sup>1</sup>**, Richard M. Leahy<sup>2</sup>, & Hanna Damasio<sup>5</sup> (2012). Genetic and Environmental Influences on Cortical Thickness among 14-Year-Old Twins, Neuroreport. 2012 Aug 22;23(12):702-6. doi: 10.1097/WNR.0b013e328355a62a.
461. Apostolova LG, Hwang KS, Medina LD, Green AE, Braskie MN, Dutton RA, Lai J, Geschwind D, Cummings JL, **Thompson PM**, Ringman JM (2011). *Cortical and Hippocampal Atrophy in Patients with Autosomal Dominant Familial Alzheimer's Disease*. **Dement Geriatr Cogn Disord**. 2011 Sep 23;32(2):118-125. [Epub ahead of print].
462. Gonzalez JE, **Thompson PM**, Zhao A, Tu Z (2011). Modeling diffusion-weighted MRI as a spatially variant Gaussian mixture: application to image denoising. *Med Phys*. 2011 Jul;38(7):4350-64.
463. Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1</sup>, April B. Ryles<sup>1</sup>, Omid Kohannim<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Sarah E. Medland<sup>2,3,4</sup>, Narelle K. Hansell<sup>2</sup>, Katie L. McMahon<sup>5</sup>, Greig I. de Zubicaray<sup>6</sup>, Grant W. Montgomery<sup>2</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Clifford R. Jack, Jr.<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative\* (2012). **Genome-wide association identifies genetic variants associated with lentiform nucleus volume in N=1345 young and elderly subjects, submitted to Brain Imaging and Behavior**, 2012 Aug 18. [Epub ahead of print].
464. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Jeffrey D. Rudie<sup>2</sup>, Mirella Dapretto<sup>2,3</sup>, Jesse A. Brown<sup>3</sup>, Susan Y. Bookheimer<sup>3</sup>, Kori Johnson<sup>4,5</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>6</sup>, Grant Montgomery<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5,6</sup>, **Paul M. Thompson<sup>1</sup>** (2012). Abnormal Structural Brain Connectivity in Healthy Carriers of the Autism Risk Gene, *CNTNAP2*, **Brain Connectivity**, published online, 2012.
465. Florian Kurth<sup>1\*</sup>, Emeran A. Mayer<sup>1</sup>, Arthur W. Toga<sup>2</sup>, **Paul M. Thompson<sup>2</sup>**, Eileen Luders (2012). The right inhibition? Callosal correlates of hand performance in healthy children and adolescents, *Hum Brain Mapp*. 2012 Mar 22. doi: 10.1002/hbm.22060. [Epub ahead of print].
466. Lui LM, Wong TW, Zeng W, Gu X, **Thompson PM**, Chan TF, Yau ST (2011). A Survey on Recent Developments in Quasi-conformal Geometry and its Applications, **American Mathematical Society (AMS) Studies in Advanced Mathematics**, Volume 51, 2011.
467. Foland-Ross LC, John O. Brooks III, PhD, MD<sup>2</sup>, George Bartzokis, MD<sup>2</sup>, Jennifer Townsend, BA<sup>2</sup>, Jim Mintz<sup>3</sup>, PhD, **Thompson PM**, Lori L. Altshuler (2012). **Mood state effects on amygdala volume in bipolar disorder**, *J Affect Disord*. 2012 Aug;139(3):298-301. doi: 10.1016/j.jad.2012.03.003. Epub 2012 Apr 21.
468. Raine A, Laufer WS, Yang Y, Narr KL, **Thompson P**, Toga AW (2011). Increased executive functioning, attention, and cortical thickness in white-collar criminals. **Hum Brain Mapp**. 2011 Oct 17. doi: 10.1002/hbm.21415. [Epub ahead of print].
469. Lee GJ, Lu PH, Medina LD, Rodriguez-Agudelo Y, Melchor S, Coppola G, Braskie MN, Hua X, Apostolova LG, Leow AD, **Thompson PM**, Ringman JM (2012). Regional brain volume differences in symptomatic and presymptomatic carriers of familial Alzheimer's disease mutations, **J Neurol Neurosurg Psychiatry**. 2012 Oct 20. [Epub ahead of print].

470. Liu F, van der Lijn F, Schurmann C, Zhu G, Chakravarty MM, Hysi PG, Wollstein A, Lao O, de Bruijne M, Ikram MA, van der Lugt A, Rivadeneira F, Uitterlinden AG, Hofman A, Niessen WJ, Homuth G, de Zubicaray G, McMahon KL, **Thompson PM**, Daboul A, Puls R, Hegenscheid K, Bevan L, Pausova Z, Medland SE, Montgomery GW, Wright MJ, Wicking C, Boehringer S, Spector TD, Paus T, Martin NG, Biffar R, Kayser M for the International Visible Trait Genetics (VisiGen) Consortium (2012). A genome-wide association study of shape variations in the human face, **PLoS Genetics**. 2012 Sep;8(9):e1002932. doi: 10.1371/journal.pgen.1002932. Epub 2012 Sep 13.
471. Rajagopalan P, Neda Jahanshad<sup>1,2</sup>, Jason L. Stein<sup>1</sup>, Omid Kohannim<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Xue Hua<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Andrew J. Saykin<sup>4</sup>, Robert C. Green<sup>5</sup>, Michael W. Weiner<sup>6,7</sup>, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative (2012). **Commonly carried C677T risk variant in the folate pathway candidate gene, MTHFR, promotes brain deficits in the cognitively impaired elderly, Neuroimage-Clinical, published online, Oct. 2012 [epub].**
472. Braskie MN, Neda Jahanshad, BS<sup>a,f</sup>, Jason L Stein, BA<sup>a</sup>, Marina Barysheva, BS<sup>a</sup>, Kori Johnson, BPsy<sup>b,d</sup>, Katie L McMahon, PhD<sup>b</sup>, Greig I de Zubicaray, PhD<sup>c</sup>, Nicholas G Martin, PhD<sup>d</sup>, Margaret J Wright, PhD<sup>d</sup>, John M Ringman, MD<sup>e</sup>, Arthur W Toga, PhD<sup>a</sup>, **Paul M Thompson, PhD<sup>a</sup> (2012). Relationship of a Variant in the NTRK1 Gene to White Matter Microstructure in Young Adults, Journal of Neuroscience, Volume: 32 Issue: 17 Pages: 5964-5972 DOI: 10.1523/JNEUROSCI.5561-11.2012 Published: APR 25 2012.**
473. Wang Y, Panigrahy A, Shi J, Ceschin R, Nelson MD, Gutman B, **Thompson PM**, Lepore N (2012). **Ventricular and thalamic surface morphometry in premature neonates, submitted, Nov. 8 2011.**
474. Engel JP, **Thompson PM** (2012). Going beyond hippocampocentricity in the concept of mesial temporal lobe epilepsy. **Epilepsia**, 2012 Jan;53(1):220-3. doi: 10.1111/j.1528-1167.2011.03366.x.
475. **Rudie JD**, Hernandez LM, Brown JA, Beck-Pancer D, Colich NL, Gorrindo P, **Thompson PM**, Geschwind DH, Bookheimer SY, Levitt P, Dapretto M (2012). Autism-associated promoter variant in MET impacts functional and structural brain networks, **Neuron**. 2012 Sep 6;75(5):904-15. doi: 10.1016/j.neuron.2012.07.010.
476. Grill JD, Di L, Lu PH, Lee C, Ringman J, Apostolova LG, Chow N, Kohannim O, Cummings JL, **Thompson PM**, Elashoff D; Alzheimer's Disease Neuroimaging Initiative. (2012). **Estimating sample sizes for prodementia Alzheimer's trials based on the Alzheimer's Disease Neuroimaging Initiative, Neurobiol Aging**. 2012 Apr 12. [Epub ahead of print].
477. Levine AJ, Service S, Miller EN, Reynolds SM, Singer EJ, Shapshak P, Martin EM, Sacktor N, Becker JT, Jacobson LP, **Thompson PM**, Freimer N (2012). Genome-wide association study of neurocognitive impairment and dementia in HIV-infected adults, **Am J Med Genet B Neuropsychiatr Genet**. 2012 Sep;159B(6):669-83. doi: 10.1002/ajmg.b.32071. Epub 2012 May 24.
478. Orešič M, Seppänen-Laakso T, Sun D, Tang J, Therman S, Viehman R, Mustonen U, van Erp TG, Hyötyläinen T, **Thompson P**, Toga AW, Huttunen MO, Suvisaari J, Kaprio J, Lönnqvist J, Cannon TD (2012). Phospholipids and insulin resistance in psychosis: a lipidomics study of twin pairs discordant for schizophrenia, **Genome Med**. 2012 Jan 18;4(1):1. doi: 10.1186/gm300.
479. Beau K. Nakamoto, M.D., Ph.D.<sup>1,2</sup> \*; Neda Jahanshad, B.S.<sup>3</sup> \*; Aaron McMurtray, M.D., Ph.D.<sup>4</sup>; Kalpana J. Kallianpur, Ph.D.<sup>1</sup>; Dominic C. Chow, M.D.<sup>1</sup>; Victor G. Valcour, M.D.<sup>5</sup>; Robert H. Paul, Ph.D.<sup>6</sup>; **Paul M. Thompson, Ph.D.<sup>3</sup>**; Cecilia M. Shikuma, M.D.<sup>1</sup> (2012). **Cerebrovascular Risk Factors and Brain Microstructural Abnormalities on Diffusion Tensor Images in HIV-infected Individuals, Journal of Neurovirology, 18(4): 303-312, Aug. 2012.**

480. Ge T, Feng J, Hibar DP, **Thompson PM**, Nichols TE and the Alzheimer's Disease Neuroimaging Initiative (2012). Increasing Power for Voxel-wise Genome-wide Association Studies: The Random Field Theory, Least Square Kernel Machines and Fast Permutation Procedures, **Neuroimage**. 2012 Nov 1;63(2):858-73. doi: 10.1016/j.neuroimage.2012.07.012. Epub 2012 Jul 16.
481. Meredith N. Braskie, Arthur W. Toga, **Paul M. Thompson** (2013). **Recent advances in imaging Alzheimer's disease**, review paper for a Special Issue of **Journal of Alzheimer's Disease**, on **Alzheimer's Disease: Advances for a New Century**, J Alzheimers Dis. 2013 Jan 1;33(0):S313-27. doi: 10.3233/JAD-2012-129016.
482. Novak NM, Stein JL, Medland SE, Hibar DP, **Thompson PM**, Toga AW (2012). EnigmaVis: online interactive visualization of genome-wide association studies of the Enhancing NeuroImaging Genetics through Meta-Analysis (ENIGMA) consortium, **Twin Research in Human Genetics**, 2012 Jun;15(3):414-8. doi: 10.1017/thg.2012.17.
483. Di Paola M, Luders E, Rubino IA, Siracusano A, Manfredi G, Girardi P, Martinotti G, **Thompson PM**, Chou YY, Toga AW, Caltagirone C, Spalletta G (2012). The structure of the corpus callosum in obsessive compulsive disorder, **European Psychiatry**, 2012 Oct 15. doi:pii: S0924-9338(12)00085-5. 10.1016/j.eurpsy.2012.07.001. [Epub ahead of print].
484. Eileen Luders<sup>1\*</sup>, **Paul M. Thompson**<sup>1</sup>, Florian Kurth<sup>2</sup>, Gilbert Hong<sup>2</sup>, Owen R. Phillips<sup>1</sup>, Yalin Wang<sup>3</sup>, Boris A. Gutman<sup>1</sup>, Katherine L. Narr<sup>1</sup>, Arthur W. Toga (2012). Global and regional alterations of hippocampal anatomy in long-term meditation practitioners, **Human Brain Mapping**, 2012 Jul 19. doi: 10.1002/hbm.22153. [Epub ahead of print].
485. Cole J, Filippetti ML, Walshe M, Nam KW, Murray RM, Rifkin L, **Thompson PM**, Allin M\*, Nosarti C\* (2012). **Hippocampal volume, subregional morphology and adolescent behavioural outcome following very preterm birth, to be submitted, Feb. 2012.**
486. Protas HD, Kepe V, Hayashi KM, Klunder AD, Braskie MN, Ercoli L, Siddarth P, Bookheimer SY, **Thompson PM**, Small GW, Barrio JR, Huang SC (2012). *Prediction of Cognitive Decline Based on Hemispheric Cortical Surface Maps of FDDNP PET*, 2012 Feb 28. [Epub ahead of print].
487. Wyman BT, Harvey DJ, Crawford K, Bernstein MA, Carmichael O, Cole PE, Crane P, DeCarli C, Fox NC, Gunter J, Hill D, Killiany R, Pachai C, Schwarz A, Schuff N, Senjem M, Suhy J, **Thompson PM**, Weiner MW, Jack CR. (2012). Standardization of Analysis Sets for Reporting Results from ADNI MRI data, *Journal of Alzheimer's & Dementia*, 2012 Oct 27. pii: S1552-5260(12)02379-5. doi: 10.1016/j.jalz.2012.06.004. [Epub ahead of print].
488. Braskie MN, Luis D. Medina<sup>a,b,1</sup>, Yaneth Rodriguez-Agudelo<sup>d</sup>, Daniel H. Geschwind<sup>b</sup>, Miguel Angel Macias-Islas<sup>c</sup>, **Paul M. Thompson**<sup>b,c</sup>, Jeffrey L. Cummings<sup>a,b</sup>, Susan Y. Bookheimer<sup>f</sup>, John M. Ringman (2012). **Memory performance and fMRI signal in preclinical familial Alzheimer's disease**, **Human Brain Mapping**, 2012 Jul 17. doi: 10.1002/hbm.22141. [Epub ahead of print].
489. Grace J. Lee, Po H. Lu, Xue Hua, Suh Lee, Stephanie Wu, Ken Nguyen, Edmond Teng, Alex D. Leow, Clifford R. Jack Jr., Arthur W. Toga, Michael W. Weiner, George Bartzokis, **Paul M. Thompson**, and the Alzheimer's Disease Neuroimaging Initiative (2012). Depressive Symptoms in Mild Cognitive Impairment Predict Greater Atrophy in Alzheimer's Disease Related Regions, **Biological Psychiatry**, 71 Issue: 9 Pages: 814-821, May 1 2012.

490. Massimo Filippi,<sup>1</sup> Federica Agosta,<sup>1</sup> Frederik Barkhof,<sup>2</sup> Bruno Dubois,<sup>3</sup> Nick C. Fox,<sup>4</sup> Giovanni B. Frisoni,<sup>5</sup> Clifford R. Jack,<sup>6</sup> Peter Johannsen,<sup>7</sup> Bruce L. Miller,<sup>8</sup> Peter J. Nestor,<sup>9</sup> Philip Scheltens,<sup>10</sup> Sandro Sorbi,<sup>11</sup> Stefan Teipel,<sup>12</sup> **Paul M. Thompson**,<sup>13</sup> Lars-Olof Wahlund.<sup>14</sup> (2012). **EFNS (European Federation of Neurological Societies) Task Force: The use of neuroimaging in the diagnosis of dementia**, *European Journal of Neurology*, 2012 Dec;19(12):1487-501. doi: 10.1111/j.1468-1331.2012.03859.x. Epub 2012 Aug 20.
491. Alex Leow, Olusola Ajilore, Liang Zhan, Donatello Arienzo, Johnson GadElkarim, Aifeng Zhang, Teena Moody, John Van Horn, Jamie Feusner, Anand Kumar, **Paul Thompson**, and Lori Altshuler (2013). Impaired inter-hemispheric integration in bipolar disorder revealed using with brain network analyses, **Biological Psychiatry**, 2013 Jan 15;73(2):183-193. doi: 10.1016/j.biopsych.2012.09.014. Epub 2012 Oct 31.
492. Christine Schneider<sup>1</sup>, Christoph Helmstaedter<sup>1</sup>, Eileen Luders<sup>2</sup>, **Paul M. Thompson**<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Christian Elger<sup>1</sup>, Bernd Weber (2012). Relation of callosal structure to cognitive abilities in temporal lobe epilepsy, to be submitted, March 2012.
493. Arthur W. Toga, Kristi A. Clark, **Paul M. Thompson**, David W. Shattuck, John Darrell Van Horn (2012). Mapping the Human Connectome, Cover Editorial – **Neurosurgery**, 2012 Jul;71(1):1-5. doi: 10.1227/NEU.0b013e318258e9ff.
494. J. D. Rudie<sup>1,2,3</sup>, J. A. Brown<sup>2,4</sup>, D. Beck-Pancer<sup>1</sup>, L. M. Hernandez<sup>1</sup>, E. L. Dennis<sup>2,5</sup>, **P.M. Thompson**<sup>5</sup>, S. Y. Bookheimer<sup>4</sup>, M. Dapretto (2012). Altered Functional and Structural Brain Network Organization in Autism, **NeuroImage-Clinical**, **accepted for publication, November 8, 2012**.
495. Matt Silver, Eva Janousova, Xue Hua, **Paul M. Thompson**, Giovanni Montana\*, and the Alzheimer's Disease Neuroimaging Initiative (2012). Identification of gene pathways implicated in Alzheimer's disease using longitudinal imaging phenotypes with sparse regression, **NeuroImage**, 2012 Nov 15;63(3):1681-94. doi: 10.1016/j.neuroimage.2012.08.002. Epub 2012 Aug 15.
496. Marina Boccardi,<sup>1,2</sup> Martina Bocchetta,<sup>2</sup> Hannu J. Aronen,<sup>3,4</sup> Eila Repo-Tiihonen,<sup>5</sup> Olli Vaurio,<sup>5</sup> **Paul M. Thompson**,<sup>6</sup> Jari Tiihonen,<sup>5,7,8</sup> Giovanni B. Frisoni<sup>1</sup> (2012). **Different nucleus accumbens morphology in psychopathy: another limbic piece in the puzzle**, *International Journal of Law and Psychiatry*, under revision, March 2012.
497. Kohannim O, Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Xue Hua, Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Greig I. de Zubicaray<sup>5</sup>, Katie L. McMahon<sup>6</sup>, Narelle Hansell<sup>7</sup>, Nicholas G. Martin<sup>7</sup>, Margaret J. Wright<sup>7</sup>, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative\* (2012). Discovery and replication of gene influences on brain structure using LASSO regression, *Frontiers in Neurogenomics*, **July 12 2012**.
498. Kohannim O<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Jason L. Stein<sup>1</sup>, Ming-Chang Chiang<sup>1,2</sup>, April H. Reese<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Sarah E. Medland<sup>5</sup>, Grant W. Montgomery<sup>5</sup>, Nicholas G. Martin, Margaret J. Wright<sup>5</sup>, **Paul M. Thompson**<sup>1</sup> (2012). **Predicting white matter integrity from common genetic variants**, *Neuropsychopharmacology (NPP)*, *Neuropsychopharmacology*. 2012 Apr 18. doi: 10.1038/npp.2012.49. [Epub ahead of print].
499. Yuan L, Wang Y, **Thompson PM**, Narayan VA, Ye J; for the Alzheimer's Disease Neuroimaging Initiative. (2012). MULTI-SOURCE FEATURE LEARNING FOR JOINT ANALYSIS OF INCOMPLETE MULTIPLE HETEROGENEOUS NEUROIMAGING DATA, **NeuroImage**, **61(3): 622-**

632, Jul 2 2012.

500. **Thompson PM, Jahanshad N (2012). Ironing out neurodegeneration: Is iron intake important during the teenage years? *Expert Review of Neurotherapeutics*, June 2012.**
501. Omid Kohannim<sup>a</sup>, Xue Hua<sup>a</sup>, Priya Rajagopalan<sup>a</sup>, Derrek P. Hibar<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Clifford R. Jack Jr<sup>b</sup>, Michael W. Weiner<sup>c,d</sup>, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative\* (2013). Multilocus genetic profiling to empower drug trials and predict brain atrophy, *Neuroimage-Clinical*, **published online, July 2013.**
502. **Yalin Wang PhD<sup>1\*</sup>, Jie Shi MS<sup>1</sup>, Lei Yuan BS<sup>1</sup>, Alexander Greve BS<sup>2</sup>, Jieping Ye PhD<sup>1</sup>, Arthur W. Toga PhD<sup>2</sup>, Allan L. Reiss MD<sup>3</sup>, and Paul M. Thompson PhD (2012). TENSOR-BASED MORPHOMETRY AND SPARSE LEARNING CAN IMPROVE MRI-BASED DISEASE CLASSIFICATION, to be submitted to *NeuroImage*, March 22 2012.**
503. Kristy S. Hwang<sup>1,2</sup>, Mona K. Beyer<sup>3</sup>, Amity E. Green<sup>5</sup>, Christine Chung<sup>6</sup>, Paul M. Thompson<sup>1,2,8</sup>, Carmen Janvin<sup>7</sup>, Jan P. Larsen<sup>8</sup>, Dag Aarsland<sup>7</sup>, Liana G. Apostolova (2012). **Mapping cortical atrophy in Parkinson's disease patients with cognitive impairment and dementia, to be submitted to *Neurobiology of Aging*, April 11 2012.**
504. **Thompson PM, Vinters HV (2012). *Pathologic Lesions in Neurodegenerative Diseases*, Prog Mol Biol Transl Sci. 2012;107:1-40; also printed as a book chapter in the Elsevier Book (edited by David Teplow), "The Molecular Biology of Neurodegenerative Diseases."2012.**
505. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Ian B. Hickie<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, **Paul M. Thompson (2013). Development of Brain Structural Connectivity between Ages 12 and 30: A 4-Tesla Diffusion Imaging Study in 439 Adolescents and Adults, *NeuroImage*, 2013 Jan 1;64:671-84. doi: 10.1016/j.neuroimage.2012.09.004. Epub 2012 Sep 14.**
506. Neda Jahanshad<sup>1,2</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, **Paul M. Thompson (2013). Connectome-Wide Genome-Wide Search Discovers *SPON1* Gene Variant Influencing Dementia Severity, *PNAS*, Feb. 2013.**
507. Yaling Yang, Ph.D.<sup>1</sup>, Katherine L. Narr, Ph.D.<sup>1</sup>, Laura A. Baker Ph.D.<sup>2</sup>, Shantanu Joshi, Ph.D.<sup>1</sup>, Neda Jahanshad, Ph.D.<sup>1</sup>, Boris Gutman, B.S.<sup>1</sup>, Owen R. Phillips, B.S.<sup>1</sup>, Adrian Raine, D. Phil.<sup>3</sup>, & **Paul M. Thompson, Ph.D.<sup>1</sup> (2012). Frontal and Striatal Alterations associated with Psychopathic Traits in Adolescents, to be submitted to the *American Journal of Psychiatry*, June 2012.**
508. Priya Rajagopalan, Helga Refsum, Xue Hua, Arthur W. Toga, Clifford R. Jack, Michael W. Weiner, Paul M. Thompson, and Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **Mapping Associations between Creatinine, Cystatin C and Brain Structure in the Elderly- An ADNI Study, submitted to the journal *Stroke*, July 20 2012.**
509. Xue Hua PhD<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Christopher R. K. Ching<sup>1</sup>, Christina P. Boyle<sup>1</sup>, Priya Rajagopalan MD<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Alex D. Leow MD PhD<sup>2,3,4</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>4</sup>, Danielle Harvey PhD<sup>5</sup>, Michael W. Weiner MD<sup>6,7,8</sup>, Paul M. Thompson PhD<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2012). **Unbiased Tensor-Based Morphometry: Improved Robustness and Sample Size Estimates for Alzheimer's Disease Clinical Trials, *NeuroImage*, Oct. 30 2012, in press [epub].**



510. Meredith N Braskie, PhD<sup>1</sup>, Omid Kohannim, MD, PhD<sup>1</sup>, Neda Jahanshad, PhD<sup>1,2</sup>, Ming-Chang Chiang, Marina Barysheva, BS<sup>1</sup>, Arthur W Toga, PhD<sup>4</sup>, John M Ringman, MD<sup>5</sup>, Katie L McMahon, PhD<sup>6</sup>, Greig I de Zubicaray PhD<sup>7</sup>, Nicholas G Martin, PhD<sup>8</sup>, Kori Johnson, Margaret J Wright, PhD<sup>8</sup>, Paul M Thompson, PhD (2012). **Relation between variants in the neurotrophin receptor gene, *NTRK3*, and white matter integrity in healthy young adults, NeuroImage, in press.**
511. Ming Li<sup>1,4,†</sup>, Xiong-jian Luo<sup>2,†</sup>, Xiao-sen Guo<sup>3,†</sup>, Cathryn M. Lewis<sup>5</sup>, Marcella Rietschel<sup>6,7</sup>, Angelika Erhardt<sup>8</sup>, Stéphane Jamain<sup>9,10</sup>, Marion Leboyer<sup>9,12</sup>, Mikael Landén<sup>13</sup>, Jason L. Stein<sup>14,b</sup>, Sarah E. Medland<sup>c,d,e</sup>, Alejandro Arias Vasquez<sup>f,g</sup>, Derrek P. Hibar<sup>14</sup>, Barbara Franke<sup>f,g</sup>, Nicholas G. Martin<sup>c</sup>, Margaret J. Wright<sup>c</sup>, Paul M. Thompson<sup>14</sup>, The Alzheimer's Disease Neuroimaging Initiative\*, Stacy Steinberg<sup>14</sup>, Sven Cichon<sup>15-17</sup>, Manuel Mattheisen<sup>16,17</sup>, Thomas G. Schulze<sup>18</sup>, Paul M. Thompson<sup>19</sup>, Sarah E. Bergen<sup>20,21</sup>, Gary Donohoe<sup>22</sup>, Ian W. Craig<sup>5</sup>, Gerome Breen<sup>5</sup>, Markus M. Nöthen<sup>16,17</sup>, Derek W. Morris<sup>22</sup>, April Hargreaves<sup>22</sup>, Michael Gill<sup>22</sup>, Aiden Corvin<sup>22</sup>, Christina Hultman<sup>23</sup>, Emma Flordal Thelander<sup>23</sup>, Arthur W. Toga<sup>19</sup>, Engilbert Sigurdsson<sup>24</sup>, Patrick F. Sullivan<sup>25</sup>, Hong Shi<sup>1</sup>, Hua Chen<sup>26</sup>, Darina Czamara<sup>8</sup>, Chantal Henry<sup>9,12</sup>, Frank Bellivier<sup>9,12</sup>, Bruno Etain<sup>9,11</sup>, Hreinn Stefansson<sup>14</sup>, Kari Stefansson<sup>14</sup>, Joshua C. Bis<sup>27</sup>, M. Arfan Ikram<sup>28,29</sup>, Myriam Fornage<sup>30</sup>, Stephanie Debette<sup>31-33</sup>, Lenore J. Launer<sup>34</sup>, Sudha Seshadri<sup>35,36</sup>, MoodS Bipolar Consortium<sup>37</sup>, Shan-shan Dong<sup>3</sup>, Lin Gan<sup>2</sup>, Jun Wang<sup>3</sup>, Bing Su<sup>1,§</sup> (2013). **Allelic differences between Europeans and Han Chinese for CREB1 SNPs and their implications in gene expression regulation, hippocampal function and bipolar disorder susceptibility, Mol Psychiatry, in press.**
512. Boris A. Gutman<sup>1</sup>, Xue Hua PhD<sup>1</sup>, Priya Rajagopalan MD<sup>1</sup>, Yi-Yu Chou<sup>1</sup>, Yalin Wang PhD<sup>2</sup>, Igor Yanovsky PhD<sup>3</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>4</sup>, Michael W. Weiner MD<sup>5,6,7</sup>, **Paul M. Thompson PhD<sup>1,8</sup>** for the Alzheimer's Disease Neuroimaging Initiative\* (2012). Maximizing Power to Track Alzheimer's Disease and MCI Progression by LDA-Based Weighting of Longitudinal Ventricular Surface Features, **NeuroImage, in press [epub, Dec. 2012].**
513. Dennis EL, **Thompson PM** (2012). **Mapping Connectivity in the Developing Brain**, Invited Review Article, submitted to **International Journal of Developmental Neuroscience**, Special Issue: "Neuroimaging before and after Birth", August 31 2012.
514. Braskie MN, Neda Jahanshad, BS<sup>a,f</sup>, Arthur W Toga, Katie L McMahon, PhD<sup>b</sup>, Greig I de Zubicaray, PhD<sup>c</sup>, Nicholas G Martin, PhD<sup>d</sup>, Margaret J Wright, PhD<sup>d</sup>, **Paul M Thompson, PhD<sup>a</sup>** (2012). **How a common variation in the growth factor receptor gene, *NTRK1*, affects the brain's white matter, BioArchitecture, 2012 Sep 1;2(5). [Epub ahead of print].**
515. Chhatwal JP\*, Schultz AP\*, Johnson KA, Benzinger TLS, Jack CR, Salloway S, Ringman J, Koeppe R, Marcus D, Thompson PM, Saykin AJ, Correia S, Schofield PR, Rowe C, Fox NC, Brickman AM, Mayeux R, McDade E, Bateman R, Fagan A, Goate A, Xiong C, Buckles V, Moulder K, Morris JC, Sperling RA\*\* for the Dominantly Inherited Alzheimer Network (DIAN)\*\*\* (2012). **Impaired default network functional connectivity in autosomal dominant Alzheimer's disease: Findings from the DIAN study**, submitted to Lancet Neurology, Sept. 7 2012.
516. Michela Pievani,<sup>1</sup> Martina Bocchetta,<sup>1</sup> Marina Boccardi,<sup>1</sup> Enrica Cavedo,<sup>1</sup> Matteo Bonetti,<sup>2</sup> Paul M Thompson,<sup>3</sup> Giovanni B Frisoni<sup>1</sup> (2012). **Morphological differences in the striatum of early-onset and late-onset Alzheimer's disease, to be submitted, Sept. 2012.**
517. Teverovskiy LA, Becker JT, Aizenstein HJ, Carmichael OT, Meltzer C, DeKosky S, Kuller L, Lopez OL, **Thompson PM, Liu Y** (2012). **Predicting Brain Age from Magnetic Resonance Images using Statistical Learning** submitted to **Brain Imaging and Behavior**, Sept. 2012.

518. Johnson GadElkarim, Olusola Ajilore, Dan Schonfeld, Liang Zhang, **Paul Thompson**, Jamie Feusner, Anand Kumar, Lori Altshuler, and Alex Leow (2012). Investigating brain community structure abnormalities in bipolar disorder using PLACE (Path Length Associated Community Estimation), submitted to **J. Neuroscience**, Sept. 26 2012.
519. Liana G. Apostolova<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Omid Kohannim<sup>2</sup>, Clifford R. Jack<sup>3</sup>, Leslie Shaw<sup>4</sup>, John Q. Trojanowski<sup>4</sup>, Michael W. Weiner<sup>5,6</sup>, Paul M. Thompson<sup>1,2,7</sup> and the Alzheimer's Disease Neuroimaging Initiative\* (2012). **Automated diagnostic classifiers for mild cognitive impairment and Alzheimer's disease, Neurobiology of Aging, to be submitted, Oct. 2012.**
520. Brian W. Haas PhD<sup>1,2,5</sup>, Kristen Sheau MS<sup>1</sup>, Ryan G. Kelly BS<sup>1</sup>, Paul M. Thompson, PhD<sup>6</sup>, Allan L. Reiss MD (2012). **Regionally specific increased volume of the amygdala in Williams syndrome: Evidence from surface based modeling, NeuroImage, in press, Oct. 3 2012 [epub].**
521. Neda Jahanshad<sup>1,2\*</sup>, Victor G. Valcour<sup>3,4\*</sup>, Talia M. Nir<sup>1</sup>, Omid Kohannim<sup>1</sup>, Edgar Busovaca<sup>3</sup>, Krista Nicolas<sup>3</sup>, Paul M. Thompson (2012). **Disrupted brain networks in the aging HIV+ population, Brain Connectivity, 2012;2(6):335-44. doi: 10.1089/brain.2012.0105-Rev, epub Dec. 2012.**
522. Jennifer A. Eastman<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Sona Babakchian<sup>1,2</sup>, Nicole Chow<sup>1,2</sup>, Leslie Ramirez<sup>1,2</sup>, Paul M. Thompson<sup>1,2</sup>, Liana G. Apostolova (2013). **Cortical Thickness and Semantic Fluency in Alzheimer's disease and Mild Cognitive Impairment, to be submitted, Oct. 2012.**
523. Cole JH, Boyle CP, **Simmons A**, Cohen-Woods S, Rivera M, McGuffin P, **Thompson PM**, Fu CH (2013). [Body mass index, but not FTO genotype or major depressive disorder, influences brain structure](#), *Neuroscience*. 2013 Nov 12;252:109-17. doi: 10.1016/j.neuroscience.2013.07.015. Epub 2013 Aug 9.
524. Po H. Lu, PsyD<sup>1</sup>, Mario Mendez, MD, PhD<sup>1,4</sup>, Grace J. Lee, PhD<sup>1</sup>, Paul M. Thompson, PhD<sup>1,2</sup>, Alex Leow, MD, PhD,<sup>1,2,3</sup> Clifford R. Jack, MD<sup>5</sup>, Jill Shapira, RN, PhD<sup>1,4</sup>, Elvira Jimenez, MPH<sup>1,4</sup>, Theresa Khoo, BA<sup>1</sup>, Brad F. Boeve, MD<sup>5</sup>, Richard J. Caselli, MD<sup>6</sup>, Neill R. Graff-Radford, MD<sup>7</sup>, Bruce L. Miller, MD<sup>8</sup>, George Bartzokis, MD<sup>1,3,4</sup>, David S. Knopman, MD<sup>5</sup> (2012). Patterns of Brain Atrophy in Clinical Variants of Frontotemporal Lobar Degeneration, Dementia and Geriatric Cognitive Disorders, in press, Oct. 31 2012.
525. Nir TM, Jahanshad N, Busovaca E, Wendelken L, Nicolas K, **Thompson PM**, Valcour VG (2014). [Mapping white matter integrity in elderly people with HIV](#). *Hum Brain Mapp*. 2014 Mar;35(3):975-92. doi: 10.1002/hbm.22228. Epub 2013 Jan 30.
526. Priya Rajagopalan MBBS<sup>1</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>2</sup>, Michael W. Weiner MD<sup>3,4</sup>, **Paul M. Thompson PhD<sup>1,5</sup>**, for the Alzheimer's Disease Neuroimaging Initiative\* (2013). Fat-mass related hormone, plasma leptin, predicts brain volumes in the elderly, **NeuroReport**, 2013 Jan 23;24(2):58-62.
527. Brambilla P, Cinzia Perlini, Priyanka Rajagopalan, Priyanka Saharan, Gianluca Rambaldelli, Marcella Bellani, Nicola Dusi, Roberto Cerini, Roberto Pozzi Mucelli, Michele Tansella, **Thompson PM** (2013). Schizophrenia Severity, Poor Social Functioning and Hippocampal Neuroanatomy: Three-Dimensional Mapping Study, **The British Journal of Psychiatry** (2013), 202, 1–6. doi: 10.1192/bjp.bp.111.105700, in press.
528. E.M. Meintjes, K.L. Narr, A.J.W. van der Kouwe, C.D. Molteno, B. Gutman, R.P. Woods, **P.M. Thompson**, S.W. Jacobson, and J.L. Jacobson (2012). A Tensor-based Morphometry Analysis of Regional Differences in

Brain Volume in Relation to Prenatal Alcohol Exposure, to be submitted, Nov. 2012.

529. Po H. Lu, Psy.D.<sup>1</sup>, Grace J. Lee, Ph.D.<sup>1</sup>, Todd Tishler, Michael Meghpara<sup>1</sup>, Paul M. Thompson, Ph.D.<sup>1,2,5</sup>, George Bartzokis, M.D.<sup>2,3,5</sup> (2012). Myelin Breakdown Mediates **Age-Related Slowing in Cognitive Processing Speed, in Healthy Elderly Men, Brain and Cognition**, in press, Nov. 28 2012, epub.
530. Hegarty CE, Lara C. Foland-Ross, Ph.D.<sup>2</sup>, Katherine L. Narr, Ph.D.<sup>3</sup>, Catherine Sugar, Ph.D., James McGough, M.D.<sup>1</sup>, **Paul M. Thompson, Ph.D.**<sup>3,1</sup>, Lori L. Altshuler, M.D. (2012). ADHD comorbidity can matter when assessing cortical thickness abnormalities in patients with Bipolar Disorder, *Bipolar Disord.* 2012 Dec;14(8):843-855. doi: 10.1111/bdi.12024.
531. Florence F. Roussotte, Neda Jahanshad, Derrek P. Hibar, Elizabeth R. Sowell, Omid Kohannim, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **A commonly carried genetic variant in the delta-opioid receptor gene, OPRD1, is associated with regional brain volumes in 738 elderly subjects, Human Brain Mapping**, in press, Dec. 1 2012, epub.
532. Liang Zhan<sup>1</sup>, Bryon A. Mueller<sup>3</sup>, Neda Jahanshad<sup>1</sup>, Yan Jin<sup>1</sup>, Christophe Lenglet<sup>2</sup>, Essa Yacoub, Guillermo Sapiro<sup>4</sup>, Kamil Ugurbil<sup>2</sup>, Noam Harel<sup>2</sup>, Arthur W. Toga<sup>1</sup>, Kelvin O. Lim<sup>3</sup>, **Paul M. Thompson** (2012). Field strength effects on diffusion measures and brain connectivity networks, **Brain Connectivity**, Dec. 1 2012, epub.
533. Marina Barysheva BS<sup>1</sup>, Neda Jahanshad PhD<sup>1</sup>, Lara Foland-Ross PhD<sup>1</sup>, Lori L. Altshuler MD<sup>2,3</sup>, Paul M. Thompson PhD<sup>1,2</sup> (2013). **White matter microstructural abnormalities in bipolar disorder: A whole brain diffusion tensor imaging study, NeuroImage-Clinical**, in press, March 27 2013.
534. Rajagopalan P, Hibar DP, **Thompson PM** (2013). **TREM2 Alzheimer risk gene carriers lose brain tissue faster, Letter to the Editor, New England Journal of Medicine**, to appear, Oct. 17 2013.
535. Toga AW, **Thompson PM** (2013). **Connectomics Sheds New Light on Alzheimer's Disease, Biological Psychiatry**, 2013 Mar 1;73(5):390-2. doi: 10.1016/j.biopsych.2013.01.004.
536. Neda Jahanshad<sup>1#</sup>, Peter Kochunov<sup>2#</sup>, Emma Sprooten<sup>3</sup>, René C. Mandl<sup>4</sup>, Thomas E. Nichols<sup>5,6</sup>, Thomas Booth<sup>7</sup>, John Blangero<sup>8</sup>, Greig I. de Zubicaray<sup>9</sup>, Elliot L. Hong<sup>2</sup>, Bennett A. Landman<sup>11</sup>, Nicholas G. Martin<sup>10</sup>, Katie L. McMahon<sup>12</sup>, Sarah E. Medland<sup>10</sup>, Braxton D. Mitchell<sup>13</sup>, Charles P. Peterson<sup>8</sup>, John M. Star<sup>14</sup>, Jessika E. Sussmann<sup>7</sup>, Arthur W. Toga<sup>1</sup>, Joanna M. Wardlaw<sup>14</sup>, Margaret J. Wright<sup>10</sup>, Hilleke E. Hulshoff Pol<sup>4</sup>, Mark E. Bastin<sup>7</sup>, Andrew M. McIntosh<sup>14</sup>, Ian J. Deary<sup>7</sup>, Paul M. Thompson<sup>1\*</sup>, and David C. Glahn (2013). **Multi-Site Genetic Analysis of Diffusion Images and Voxelwise Heritability Analysis: A Pilot Project of the ENIGMA-DTI Working Group, NeuroImage**, in press, May 8 2013.
537. Zuyao Y Shan<sup>1</sup>, Margaret J Wright<sup>2</sup>, Paul M Thompson<sup>3</sup>, Katie L McMahon<sup>1</sup>, Greig I de Zubicaray<sup>4</sup>, Nicholas G Martin<sup>2</sup>, Peter M Visscher<sup>5</sup>, Anna AE Vinkhuyzen<sup>5</sup>, David C Reutens<sup>1</sup> **Estimation of hemodynamic response function parameters: Test Retest Reliability with fMRI in Human Brain**, submitted to *Journal of Cerebral Blood Flow & Metabolism*, July 4 2013.
538. Prestia A, Cavedo E, Boccardi M, Muscio C, Adorni A, Geroldi C, Bonetti M, **Thompson PM**, Frisoni GB (2013). **Hippocampal and amygdalar local structural differences in elderly patients with schizophrenia, to be submitted to Molecular Psychiatry**, Jan. 7 2013.
539. Engel JP, **Thompson PM**, Stern JM, Staba RJ, Bragin A, Mody I (2013) Connectomics and Epilepsy, **Current Opinion in Neurology**, invited paper, in press, 2013.

540. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, **Paul M. Thompson<sup>1\*</sup>** for the Alzheimer's Disease Neuroimaging Initiative (2013). **Breakdown of Brain Connectivity between Normal Aging and Alzheimer's Disease: A Structural k-Core Network Analysis, Brain Connectivity**, 2013.
541. Douglas C. Dean III<sup>\*</sup>, Beth A. Jerskey<sup>\*</sup>, Kewei Chen<sup>\*</sup>, Hillary Protas, Pradeep Thiyyagura, Auttawat Rontiva, J. O'Muircheartaigh<sup>1,3</sup>, H. Dirks<sup>1</sup>, N. Waskiewicz<sup>1</sup>, K. Lehman<sup>1</sup>, Ashley Siniard, Xue Hua, Sarah K. Madsen, **Paul M. Thompson**, Adam S. Fleisher, Matthew J. Huentelman, Sean C. L. Deoni<sup>†</sup>, and Eric M. Reiman<sup>†</sup> (2013). **BRAIN ALTERATIONS IN INFANTS AT GENETIC RISK FOR LATE-ONSET ALZHEIMER'S DISEASE, JAMA Neurology**, in press, July 2013.
542. Daniel Peng<sup>1</sup>, Ryan Kelley<sup>1</sup>, Eve-Marie Quintin<sup>1</sup>, Mira Raman, M.S<sup>1</sup>, **Paul Thompson<sup>4</sup>**, Allan L. Reiss (2013). **Cognitive and Behavioral Correlates of Caudate Subregion Shape Variation in Fragile X Syndrome, Human Brain Mapping**, in press, April 10 2013.
543. Napatkamon Ayutyanont, Ph.D.<sup>1,16</sup>, Kewei Chen, Ph.D.<sup>1,2,16</sup>, Adam S. Fleisher, M.D.<sup>1,15,16</sup>, Jessica B.S. Langbaum, Ph.D.<sup>1,16</sup>, Cole Reschke, B.S.<sup>1,16</sup>, Stephanie A. Parks, B.A.<sup>1,16</sup>, Wendy Lee, M.S.<sup>1,16</sup>, Xiaofen Liu, M.S.<sup>1,16</sup>, Hillary Protas, Ph.D.<sup>1,16</sup>, Dan Bandy, M.S.<sup>1,16</sup>, Gene E. Alexander, Ph.D.<sup>3,16</sup>, Nicholas C. Fox<sup>17</sup>, Kevin Leung<sup>17</sup>, Emma B. Lewis<sup>17</sup>, Paul M. Thompson, Ph.D.<sup>5</sup>, Norman L. Foster, M.D.<sup>6</sup>, Danielle J. Harvey, Ph.D.<sup>7</sup>, Laurel Beckett, Ph.D.<sup>7</sup>, Momy J. de Leon, Ed.D.<sup>8</sup>, Robert A. Koeppe, Ph.D.<sup>9</sup>, William J. Jagust, M.D.<sup>10</sup>, Michael W. Weiner, M.D.<sup>11,12,13</sup>, Eric M. Reiman, M.D.<sup>1,4,14,16</sup> for the Alzheimer's Disease Neuroimaging Initiative<sup>\*</sup> (2013). **Twelve-month Whole-Brain Atrophy Rates and Estimated Power to Detect change in Alzheimer's Disease in Multi-center Trials Using Iterative Principal Component Analysis: Preliminary Findings from the Alzheimer's Disease Neuroimaging Initiative, to be submitted to the Journal of Neuroscience and Biomedical Engineering**, Feb. 20 2013, in press.
544. Jie Shi<sup>1</sup>, Yalin Wang<sup>1</sup>, Rafael Ceschin<sup>2</sup>, Xing An<sup>1</sup>, Yi Lao<sup>3,4</sup>, Douglas Vanderbilt<sup>5,6</sup>, Marvin D. Nelson<sup>3,7</sup>, **Paul M. Thompson**, Ashok Panigrahy<sup>2,3</sup>, Natasha Lepoře (2013). A multivariate surface-based analysis of the putamen in premature newborns: regional differences within the ventral striatum, to be submitted to PLoS ONE, Jan. 2013.
545. Neda Jahanshad, Priya Rajagopalan, **Paul Thompson** (2013). Neuroimaging, Nutrition, and Iron-Related Genes, Invited Review for **Cellular Molecular and Life Science Reviews** (CMLS Reviews), 2013.
546. Martin Tesli<sup>1,2(\*\*)</sup> and Randi Egeland<sup>3(\*\*)</sup>, Ida Sønnerby<sup>4</sup>, Unn Haukvik<sup>1,6</sup>, Francesco Bettella<sup>1</sup>, Derrek Hibar<sup>7</sup>, Paul M. Thompson, Lars Morten Rimol<sup>1,6</sup>, Ingrid Melle<sup>1,2</sup>, Ingrid Agartz<sup>1,5,6</sup>, Srdjan Djurovic<sup>1,2,4</sup>, and Ole A. Andreassen<sup>1,2</sup> (2013). **Bipolar disorder risk gene variants and brain structural phenotypes, in press, June 2013.**
547. Baptiste Couvy-Duchesne<sup>a, b, c</sup>, Gabriëlla A. M. Blokland<sup>a, d</sup>, Ian B. Hickie<sup>e</sup>, **Paul M. Thompson<sup>g</sup>**, Nicholas G. Martin, Greig I. de Zubicaray, Katie L. McMahon, Margaret J. Wright (2013). Heritability of head motion during resting state functional MRI in 462 healthy twins, submitted to **NeuroImage**, Feb. 2013.
548. **Thompson PM**, Glahn D, Ge T, Jahanshad N, Nichols TE (2013). Genetics of the Connectome, Invited Review Paper for the Special Issue on the Connectome, **NeuroImage**, 2013 Oct 15;80:475-88. doi: 10.1016/j.neuroimage.2013.05.013. Epub 2013 May 21.
549. Jeffrey C.L. Looi<sup>a,c</sup>, Mark Walterfang<sup>b</sup>, Christer Nilsson<sup>d</sup>, Brian D. Power<sup>e</sup>, Danielle van Westen<sup>f</sup>, Dennis Velakoulis<sup>b</sup>, Lars-Olof Wahlund<sup>c</sup>, **Paul M. Thompson<sup>g</sup>** (2013). The Subcortical Connectome: Hubs, spokes and the space between, to be submitted to **Molecular Psychiatry**, Feb. 2013.

- 550.Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>3</sup>, Ian B. Hickie<sup>5</sup>, Arthur W. Toga<sup>1</sup>, Margaret J. Wright<sup>3,4</sup>, **Paul M. Thompson<sup>1</sup>** (2013). **Development of Insula Connectivity Revealed by High Angular Resolution Diffusion Imaging (HARDI), Human Brain Mapping, in press, March 4 2013.**
- 551.Eileen Luders, Arthur Toga, and Paul Thompson (2013). **Why Size Matters: Differences in Brain Volume Account for Apparent Sex Differences in Callosal Anatomy, Human Brain Mapping, submitted, March 2013.**
- 552.Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Julio E. Villalon Reina<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, **Paul M. Thompson<sup>1,4,†</sup>** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Effectiveness of Regional DTI Measures in Distinguishing Alzheimer's Disease, MCI and Normal Aging, NeuroImage-Clinical, 2013; 3: 180–195.**
- 553.Jewell B Thomas, Matthew R Brier, Randall J Bateman, Abraham Z Snyder, Tammie L Benzinger, Chengjie Xiong, Marcus Raichle, David M Holtzman, Reisa A Sperling, Richard Mayeux, Bernardino Ghetti, John M Ringman, Stephen Salloway, Eric McDade, Martin N Rossor, Paul R Schofield, Colin L Masters, Ralph N Martins, Adrian Danek, Mathias Jucker, Michael W Weiner, Neill R Graff-Radford, **Paul M Thompson**, Nick C Fox, Robert A Koeppe, Clifford R Jack Jr, Chester A Mathis, William E Klunk, Angela Oliver, Tyler M Blazey, Krista Moulder, Virginia Buckles, Russ Hornbeck, Chhatwal JP, Aaron P Schultz, Alison M Goate, Anne M Fagan, Nigel J Cairns, Daniel S Marcus, John C Morris, and Beau M Ances for the Dominantly Inherited Alzheimer Network (2013). Functional Connectivity in Autosomal Dominant and Sporadic **Alzheimer Disease, submitted to the Journal of Neuroscience, revised version to be submitted, Oct. 2013.**
- 554.Cash DM<sup>1</sup>, Ridgway GR<sup>1</sup>, Ryan NS<sup>1</sup>, Kinnunen KM<sup>1</sup>, Yeatman T<sup>1</sup>, Malone I<sup>1</sup>, Benzinger TLS<sup>2</sup>, Koeppe R<sup>3</sup>, Jack CR<sup>4</sup>, Raichle M<sup>2</sup>, Marcus D<sup>2</sup>, Ringman J<sup>6</sup>, **Thompson PM<sup>6</sup>**, Saykin AJ<sup>7</sup>, Salloway S<sup>8</sup>, Correia S<sup>8</sup>, Johnson K<sup>9</sup>, Sperling R<sup>9</sup>, Schofield P<sup>10</sup>, Rowe C<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Mathis C<sup>5</sup>, McDade E<sup>5</sup>, Klunk W<sup>5</sup>, Weiner M<sup>14</sup>, Bateman R<sup>2</sup>, Goate A<sup>2</sup>, Xiong C<sup>2</sup>, Buckles V<sup>2</sup>, Moulder K<sup>2</sup>, Morris JC<sup>2</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> (2013). The Pattern of Volumetric Atrophy in Familial Alzheimer's Disease: Results from the DIAN Study, **Neurology, Sept. 2013.**
- 555.Shuo Xiang<sup>1,2</sup>, Lei Yuan<sup>1,2</sup>, Wei Fan<sup>3</sup>, Yalin Wang<sup>1</sup>, Paul M. Thompson<sup>4</sup>, Jieping Ye<sup>1,2</sup> for the Alzheimer's Disease Neuroimaging Initiative (2013). **BI-LEVEL MULTI-SOURCE LEARNING FOR HETEROGENEOUS BLOCK-WISE MISSING DATA, submitted to NeuroImage, March 31 2013.**
- 556.Bryan Guillaume, Xue Hua, **Paul M. Thompson**, Lourens Waldorp, Thomas E. Nichols (2013). Fast and Accurate Longitudinal Modelling for Neuroimaging, to be submitted to **NeuroImage**, April 2013.
- 557.**Florence F. Roussotte<sup>a</sup>**, Neda Jahanshad<sup>a</sup>, Derrek P. Hibar<sup>a</sup>, Elizabeth R. Sowell<sup>b</sup>, Katie L. McMahon<sup>c</sup>, Greig I. de Zubicaray<sup>d</sup>, Margaret J. Wright<sup>e</sup>, **Paul M. Thompson<sup>a,f</sup>**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2013). **A single nucleotide polymorphism associated with alcohol intake in the RASGRF2 gene predicts differences in regional brain volumes in young and elderly subjects, Frontiers in Aging Neuroscience, Dec. 2013, in press.**
- 558.Kochunov P.<sup>1,2 .3\*</sup> and Charlesworth J.<sup>2,4\*</sup>, Winkler A.<sup>5</sup>, Hong LE<sup>1</sup>, Nichols T<sup>5</sup>, Curran JE<sup>2</sup>, Sprooten E<sup>6</sup>, Jahanshad N<sup>7</sup>, Thompson PM<sup>7</sup>, Johnson MP<sup>2</sup>, Kent JW Jr.<sup>2</sup>, Landman BA<sup>8</sup>, Mitchell B.<sup>1</sup>, Cole SA<sup>2</sup>, Dyer TD<sup>2</sup>, Moses EK<sup>2</sup>, Goring H<sup>2</sup>, Almasy L<sup>2</sup>, Duggirala R.<sup>2</sup>, Olvera RL<sup>9</sup>, Glahn D<sup>6</sup> and Blangero J<sup>2</sup> (2013). Transcriptomics of cortical gray matter thickness decline during normal aging, under revision, **NeuroImage**, April 22, 2013.
- 559.Madsen S, Priya Rajagopalan M.P.H. <sup>a</sup>, Shantanu H. Joshi Ph.D. <sup>a</sup>, Arthur W. Toga Ph.D. <sup>a</sup>, Paul M.

- Thompson Ph.D.<sup>a,b</sup> & the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Elevated homocysteine is associated with thinner cortical gray matter in 803 ADNI subjects, submitted to the Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), May 1 2013.**
- 560.Madsen S, Boris A. Gutman<sup>a</sup>, Shantanu H. Joshi<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Clifford R. Jack, Jr.<sup>b</sup>, Michael W. Weiner<sup>c,d</sup>, Paul M. Thompson<sup>a,e</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Relating longitudinal ventricular expansion to cortical gray matter thinning in the elderly, submitted to the Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), May 1 2013.**
- 561.Boyle CP\*, Raji CA\*, Erickson KI, Oscar L. Lopez, James T. Becker, H. Michael Gach, W. T. Longstreth, Jr, Leonid Teverovskiy, Lewis H. Kuller, Owen Carmichael, Paul M. Thompson (2014). **Obesity, Physical Activity, and Brain Atrophy in Alzheimer's Disease, [\*equal contibution]. Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), 2014.**
- 562.Hibar D, Jason L. Stein<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Omid Kohannim<sup>a</sup>, Xue Hua<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Katie L. McMahon<sup>b</sup>, Greig I. de Zubicaray<sup>c</sup>, Nicholas G. Martin<sup>d</sup>, Margaret J. Wright<sup>d</sup>, the Alzheimer's Disease Neuroimaging Initiative<sup>†</sup>, Michael W. Weiner<sup>e,f</sup>, Paul M. Thompson (2014). **Genome-wide interaction analysis reveals replicated epistatic effects on brain structure, Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), in press.**
- 563.Jahanshad N, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Paul M. Thompson<sup>\*1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2014). **Seemingly Unrelated Regression empowers detection of network failure in dementia, submitted to the Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), in press.**
- 564.Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Paul M. Thompson<sup>1,4,†</sup> for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). **Connectivity network measures predict volumetric atrophy in mild cognitive impairment, Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), 2015 Jan;36 Suppl 1:S113-20. doi: 10.1016/j.neurobiolaging.2014.04.038. Epub 2014 Aug 30.**
- 565.Talia M. Nir<sup>1\*</sup>, Julio E. Villalon-Reina<sup>1\*</sup>, Gautam Prasad<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Shantanu H. Joshi<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Matt A. Bernstein<sup>2</sup>, Clifford R. Jack Jr.<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Paul M. Thompson<sup>1,4,†</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). **DTI-based maximum density path analysis and SVM classification of Alzheimer's disease, Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), 2015 Jan;36 Suppl 1:S132-40. doi: 10.1016/j.neurobiolaging.2014.05.037. Epub 2014 Aug 27.**
- 566.Prasad G, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, Paul M. Thompson, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). Brain connectivity and novel network measures for Alzheimer's disease classification, **Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), 2015 Jan;36 Suppl 1:S121-31. doi: 10.1016/j.neurobiolaging.2014.04.037. Epub 2014 Aug 30.**

567. Ching C, Xue Hua, Derrek P. Hibar<sup>1</sup>, Chadwick P. Ward<sup>2</sup>, Jeffrey L. Gunter<sup>2</sup>, Matt A. Bernstein<sup>2</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Paul M. Thompson<sup>1,6</sup> and the Alzheimer's Disease Neuroimaging Initiative (2013). DOES MRI SCAN ACCELERATION AFFECT POWER TO TRACK BRAIN CHANGE? **submitted to the Neurobiology of Aging (Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders), May 1 2013.**
568. Rossi R, Lanfredi M, Pievani M, Boccardi M, Rasser PE, **Thompson PM**, Cavedo E, Cotelli M, Rosini S, Beneduce R, Bignotti S, Magni LR, Rilloso L, Magnaldi S, Cobelli M, Rossi G, Frisoni GB. Decreased\* cortical gray matter density in the mentalization network in borderline personality disorder, to be submitted to **Biological Psychiatry**, May 2013.
569. Tyrone D. Cannon,<sup>1</sup> Frank Sun,<sup>2</sup> Sarah Jacobson,<sup>2</sup> Theo van Erp,<sup>3</sup> Aron Jacobson,<sup>1</sup> Carrie Bearden,<sup>2</sup> George He,<sup>1</sup> Elaine Walker,<sup>4</sup> Xiaoping Hu,<sup>4</sup> Lei Zhou,<sup>4</sup> Larry Seidman,<sup>5</sup> Heidi Thermenos,<sup>5</sup> Barbara Cornblatt,<sup>6</sup> Doreen Olvet,<sup>6</sup> Diana Perkins,<sup>7</sup> Aysenil Belger,<sup>7</sup> Kristin Cadenhead,<sup>8</sup> Ming Tsuang,<sup>8</sup> Helene Mirzakhanian, Jean Addington,<sup>9</sup> Richard Frayne,<sup>9</sup> Scott Woods,<sup>1</sup> Thomas McGlashan,<sup>1</sup> Todd Constable,<sup>1</sup> Maolin Qiu,<sup>1</sup> Daniel H. Mathalon<sup>10</sup>, **Paul Thompson**,<sup>2</sup> Arthur Toga (2013). **Reliability of neuroanatomical measurements in a multi-site longitudinal study of youth at risk for psychosis, in press, May 16 2013.**
570. Scott C. Fears MD, PhD; Susan K. Service MS; Barbara Kremeyer PhD; Carmen Araya Lic; Xinia Araya Lic; Julio Bejarano MS; Margarita Ramirez Lic; Gabriel Castrillón BSc; Juliana Gomez-Franco MD; Maria C. Lopez MSW; Gabriel Montoya MD, MSc; Patricia Montoya MA; Ileana Aldana MPH; Terri M. Teshiba BA; Zvart Abaryan BSc; Noor B. Al-Sharif BSc; Marissa Ericson PhD; Maria Jalbrzikowski PhD; Jurjen J. Luykx MD, PhD; Linda Navarro MS; Todd A. Tishler PhD; Lori Altshuler MD; George Bartzokis MD; Javier Escobar MD; David C. Glahn PhD; Jorge Ospina-Duque MD; Neil Risch PhD; Andrés Ruiz-Linares MD, PhD; **Paul M. Thompson PhD**; Rita M. Cantor PhD; Carlos Lopez-Jaramillo MD, PhD; Gabriel Macaya PhD; Julio Molina MD; Victor I. Reus MD; Chiara Sabatti PhD; Nelson B. Freimer MD; Carrie E. Bearden PhD (2013). Multi-system Component Phenotypes of Bipolar Disorder for Genetic Investigations of Extended Pedigrees, to be submitted, June 4 2013.
571. Li Shen<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Steven G. Potkin<sup>3</sup>, Lars Bertram<sup>4</sup>, Lindsay A. Farrer<sup>5</sup>, Tatiana M. Foroud<sup>6</sup>, Robert C. Green<sup>7</sup>, Xiaolan Hu<sup>8</sup>, Matthew J. Huentelman<sup>9</sup>, Sungeun Kim<sup>1</sup>, John S.K. Kauwe<sup>10</sup>, Qingqin Li<sup>11</sup>, **Enchi Liu**<sup>12</sup>, Jason H. Moore<sup>13</sup>, Leanne Munsie<sup>14</sup>, Kwangsik Nho<sup>1</sup>, Vijay K. Ramanan<sup>1,6</sup>, David J. Stone<sup>15</sup>, Shanker Swaminathan<sup>1</sup>, Arthur W. Toga<sup>16</sup>, Michael W. Weiner<sup>17</sup>, Andrew J. Saykin<sup>1,6</sup>, and for the Alzheimer's Disease Neuroimaging Initiative\* (2013). **Genetic Analysis of Quantitative Phenotypes in AD and MCI: Imaging, Cognition and Biomarkers, submitted to Brain Imaging & Behavior, Special Issue on Imaging Genetics (ed. John D. van Horn), June 2013.**
572. Memarian N, **Thompson PM**, Engel JP, Staba R (2013). **Quantitative analysis of structural neuroimaging of drug resistant mesial temporal lobe epilepsy: techniques and future perspective, Imaging in Medicine, in press, May 2013.**
573. Evan S. Lutkenhoff, David L. McArthur, Xue Hua, **Paul M. Thompson**, Paul M. Vespa, Martin M. Monti (2013). Thalamic atrophy in antero-medial and dorsal nuclei correlates with six-month outcome after severe brain injury, **Neuroimage-Clinical**, Oct. 2013.
574. Rajesh Kumar,<sup>1,\*</sup> Salar Farahvar,<sup>1</sup> Jennifer A. Ogren,<sup>2</sup> Paul M. Macey,<sup>2,3</sup> **Paul M. Thompson**,<sup>4,5</sup> Mary A. Woo,<sup>2</sup> Frisca L. Yan-Go,<sup>4</sup> and Ronald M. Harper (2013). **Brain Putamen Volume Differences in Newly-diagnosed Patients with Obstructive Sleep Apnea, submitted, August 2013.**

575. Braskie MN, Thompson PM (2013). **Understanding cognitive deficits in Alzheimer's disease based on neuroimaging findings**, *Trends in Cognitive Sciences*, [invited review], in press, Sept. 2013.
576. Dubey R; Jiayu Zhou, M.S.; Yalin Wang, Ph.D.; **Paul M Thompson**, Ph.D.; Prof. Jieping Ye (2014). Analysis of Sampling Techniques for Imbalanced Data: An N=648 ADNI Study, **Neuroimage**, in press, 2014.
577. Miguel E. Rentería<sup>1,2</sup>, Lachlan T. Strike<sup>1</sup>, Narelle K. Hansell<sup>1</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>2</sup>, Paul M. Thompson<sup>5,6,7</sup>, Sarah E. Medland<sup>1</sup>, Ian B. Hickie<sup>3</sup>, Nicholas G. Martin<sup>1</sup>, Margaret J. Wright<sup>1,2\*</sup> (2013). Normal Variation in Subcortical Asymmetry: Genetic Contributions and Patterns of Inter-Hemispheric Dominance in Right-Handed Twins, **submitted, Sept. 2013**.
578. Priya Rajagopalan MBBS<sup>1</sup>, Sarah Madsen PhD, Boris Gutman BS<sup>1</sup>, Arthur W. Toga PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>1,5</sup>**, for the Alzheimer's Disease Neuroimaging Initiative\* (2013). **Stress hormone, cortisol, is associated with 3D patterns of accelerated cerebral atrophy in the elderly**, *PNAS*, **submitted, Sept. 2013, under review**.
579. Enrica Cavedo,<sup>a,b</sup> Michela Pievani,<sup>a</sup> Marina Boccardi,<sup>a</sup> Samantha Galluzzi,<sup>a</sup> Martina Bocchetta<sup>a</sup>, Matteo Bonetti<sup>c</sup>, Paul M. Thompson,<sup>d</sup> Giovanni B. Frisoni (2013). **Medial temporal atrophy in early and late-onset Alzheimer's disease**, **submitted, Sept 1 2013**.
580. Jie Shi<sup>a</sup>, Yan Long<sup>a,b</sup>, Natasha Laporé<sup>c</sup>, Boris A. Gutman<sup>d3</sup>, Paul M. Thompson<sup>d1,d2</sup>, Leslie C. Baxter<sup>e</sup>, Richard L. Caselli<sup>f</sup>, Yalin Wang<sup>a</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2013). **GENETIC INFLUENCE OF APOE4 GENOTYPE ON HIPPOCAMPAL MORPHOMETRY - AN N=725 SURFACE-BASED ADNI STUDY**, *Human Brain Mapping*, in press, Nov. 26 2013.
581. Florence F. Roussotte, Ph.D.<sup>1\*</sup>, Madelaine Daianu, B.S.<sup>1\*</sup>, Neda Jahanshad, Ph.D.<sup>1</sup>, Cassandra D. Leonardo, B.S.<sup>1</sup>, Paul M. Thompson, Ph.D. (2014). **Neuroimaging and Genetic Risk for Alzheimer's Disease and Addiction-Related Degenerative Brain Disorders**, *Brain Imaging and Behavior*, 2014 Jun;8(2):217-33. doi: 10.1007/s11682-013-9263-y.
582. Cetingul HE, Margaret J. Wright, Paul M. Thompson, Rene Vidal (2013). Segmentation of High Angular Resolution Diffusion MRI using Sparse Riemannian Manifold Clustering, **IEEE Transactions on Medical Imaging**, accepted, in press, Sept. 2013.
583. Labus, JS, Dinov, ID, Jiang, Z, Ashe-McNalley, C, Zamanyan, A, Shi, Y, Hong, J-Y, Ebrat, B, Tillisch, K, Gupta, A, Hobel, S, Gutman, BA, Joshi, S, **Thompson PM**, Toga, AW, Mayer, EA. (2013) *Irritable Bowel Syndrome in female patients is associated with alterations in structural brain networks*. *Pain*, in press.
584. Nicole Chow, MS<sup>a</sup>, Kristy S. Hwang, BS<sup>b</sup>, Sona Hurtz, BS<sup>c</sup>, Amity E. Green, BS<sup>d</sup>, Johanne H. Somme, MD<sup>e</sup>, **Paul M. Thompson, PhD<sup>f,g</sup>**, David A. Elashoff, PhD<sup>h</sup>, Clifford R. Jack, MD<sup>i</sup>, Michael Weiner, MD<sup>j</sup>, Liana G. Apostolova, MD, MSCR<sup>c</sup> and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). Comparing 3 T and 1.5 T MRI for Mapping Hippocampal Atrophy in the Alzheimer's Disease Neuroimaging Initiative (ADNI), submitted to *Human Brain Mapping*, Oct. 2013.
585. Braskie MN, Thompson PM (2014). **A Focus on Structural Brain Imaging and ADNI**, Invited paper for **Biological Psychiatry, Special Issue on Dementia**, edited by Dan Geschwind and Eric Nestler, in press, Jan. 2014.
586. Meredith N. Braskie<sup>1</sup>, Christina P. Boyle<sup>1</sup>, Priya Rajagopalan<sup>1,a</sup>, Boris A. Gutman<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Cyrus A. Raji<sup>2</sup>, Lewis H. Kuller<sup>3</sup>, James T. Becker<sup>4</sup>, Oscar L. Lopez<sup>5</sup>, Paul M. Thompson and the Cardiovascular Health



Study (CHS) (2013). **Exercise, TNF $\alpha$ , and volume of the aging brain, submitted, Oct. 2013.**

587. Giovanni B Frisoni, Clifford R Jack, Martina Bocchetta, Corinna Bauer, Kristian S Frederiksen, Yawu Liu, Gregory Preboske, Tim Swihart, Melanie Blair, Enrica Cavado, Michel J Grothe, Mariangela Lanfredi, Oliver Martinez, Masami Nishikawa, Marileen Portegies, Travis Stoub, Chadwich Ward, Liana G. Apostolova, Rossana Ganzola, Dominik Wolf, Frederik Barkhof, George Bartzokis, Charles DeCarli, John C. Csernansky, Leyla deToledo-Morrell, Nick C. Fox, Mirjam Geerlings, Jeffrey Kaye, Ronald J Killiany, Stephane Lehericy, Hiroshi Matzuda, John O'Brien, Lisa Silbert, Philip Scheltens, Hilkka Soininen, Stefan Teipel, Gunhild Waldemar, Andreas Fellgiebel, Josephine Barnes, Michael Firbank, Lotte Gerritsen, Wouter Henneman, Nikolai Malykhin, Jens C Pruessner, Lei Wang, Craig Watson, Henrike Wolf, Mony deLeon, Johannes Pantel, Clarissa Ferrari, Paolo Bosco, Patrizio Pasqualetti, Simon Duchesne, Marina Boccardi. **Collaborators:** B Dubois, H Hampel, L-O Wahlund, C Hock, A Simmons, MW Weiner, S Mueller, **PM Thompson**, D Bennet, M Albert, R Camicioli, P Sachdev, JJ Maller, T denHeijer, DL Collins, PJ Visser, B Winbald, L Launer, W Jagust (2013). **The EADC-ADNI Harmonized Protocol for Hippocampal Segmentation on Magnetic Resonance: Evidence of Validity. Revised Feb 10 2014.**
588. Shan, Zuyao; Wright, Margaret; **Thompson, Paul**; McMahon, Katie; Blokland, Gabriella; de Zubicaray, Greig; Martin, Nicholas; Vinkhuyzen, Anna; Reutens, David (2013). Modeling of the Hemodynamic Responses in Block Design fMRI Studies, submitted to **JCBFM**, Oct. 2013.
589. Ajilore O, Zhan L, GadElkarim J, Zhang A, Feusner J, Yang S, Thompson PM, Kumar A, Leow AD (2013). Constructing the resting state structural connectome, submitted to *Frontiers in Neuroinformatics*, Sept. 12 2013.
590. Nicholus M. Warstadt<sup>1,2</sup>, Emily L. Dennis<sup>1,2</sup>, Neda Jahanshad<sup>1,2</sup>, Omid Kohanim<sup>2</sup>, Talia M. Nir<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Grant W. Montgomery<sup>5</sup>, Anjali E. Henders<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, John B. Whitfield<sup>5</sup>, Clifford R. Jack, Jr. <sup>6</sup>, Matt A. Bernstein<sup>6</sup>, Michael W. Weiner<sup>7,8</sup>, Arthur W. Toga<sup>1</sup>, Margaret J. Wright<sup>4,5</sup>, and **Paul M. Thompson<sup>1,2,9†</sup>** for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2014). **Serum Cholesterol and Cholesterol Gene *CETP* Predict White Matter Integrity, Neurobiology of Aging, Oct. 2014.**
591. **Florence F. Rousotte<sup>a,c</sup>**, Boris A. Gutman<sup>a,c</sup>, Sarah K. Madsen<sup>a,c</sup>, Katherine L. Narr<sup>a</sup>, Paul M. Thompson<sup>a,b,c</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2013). **A commonly-carried variant in the dopamine transporter gene, *DAT1*, is associated with greater Alzheimer's disease risk, cognitive decline, and faster ventricular expansion in the elderly, submitted to PNAS, Oct. 2013.**
592. Gabriella A.M. Blokland<sup>1,2,3,\*</sup>, Katie L. McMahon<sup>2</sup>, **Paul M. Thompson<sup>4</sup>**, Ian B. Hickie<sup>5</sup>, Nicholas G. Martin<sup>1</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright (2013). Genetic effects on the cerebellar role in working memory: same brain, different genes?, **NeuroImage**, in press, Oct. 21 2013.
593. **Mary C. Chavarria<sup>1</sup>**, **Francisco J. Sánchez<sup>2</sup>**, **Yi-Yu Chou<sup>3</sup>**, **Paul M. Thompson<sup>4,5,6</sup>**, **Eileen Luders (2013).** **Puberty in the Corpus Callosum**, submitted, Oct. 2013.
594. Dennis EL, Thompson PM (2013). Functional Brain Connectivity in Aging and Alzheimer's Disease, invited paper for *Neuropsychology Review*, submitted, Oct. 2013.
595. Christopher G. Schwarz<sup>1</sup>, Robert I. Reid<sup>2</sup>, Jeffrey L. Gunter<sup>2</sup>, Matthew L. Senjem<sup>2</sup>, Scott A. Przybelski<sup>3</sup>, Samantha M. Zuk<sup>1</sup>, Jennifer L. Whitwell<sup>1</sup>, Prashanthi Vemuri<sup>1</sup>, Keith A. Josephs<sup>4</sup>, Kejal Kantarci<sup>1</sup>, **Paul M. Thompson<sup>5,6</sup>**, Michael W. Weiner<sup>7</sup>, Ronald C. Petersen<sup>4</sup>, Clifford R. Jack Jr. <sup>1</sup>, and the Alzheimer's Disease

- Neuroimaging Initiative\* (2013). Improved DTI registration allows voxel-based analysis that outperforms Tract-Based Spatial Statistics, submitted to **NeuroImage**, Oct. 2013.
596. **Florence F. Rousotte<sup>a</sup>**, Boris A. Gutman<sup>b,c</sup>, Sarah K. Madsen<sup>b,c</sup>, John B. Colby<sup>a</sup>, Katherine L. Narr<sup>a</sup>, **Paul M. Thompson<sup>a,b,c,d</sup>**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\*. The apolipoprotein E epsilon 4 allele is associated with ventricular expansion rate and surface morphology in dementia and normal aging, **Neurobiology of Aging**, revision submitted, Nov. 19 2013.
597. **Jason A. Chen, Neelroop N. Parikshak, Jason L. Stein, Christina Boyle, Steve Horvath, Bruce L. Miller, Daniel H. Geschwind, Paul M. Thompson, Giovanni Coppola (2013). Regional vulnerability in neurodegenerative disease proceeds along anatomically defined, scale-free networks, submitted, Nov. 2013.**
598. Jennifer A. Ogren, PhD,<sup>1</sup> Christiane M. Abouzeid, MD,<sup>2†</sup> Paul M. Macey, PhD,<sup>1,3</sup> Rajesh Kumar, PhD,<sup>4</sup> Kevin G. Sairafian,<sup>5</sup> Priya S. Saharan, BSc,<sup>6</sup> Paul M. Thompson, PhD,<sup>7</sup> Gregg C. Fonarow, MD,<sup>8</sup> Michele A. Hamilton, MD,<sup>8‡</sup> Ronald M. Harper, PhD,<sup>3,9</sup> Mary A. Woo, DNSc, RN,<sup>1\*</sup> (2013). Regional Hippocampal Damage in Heart Failure, submitted, Nov. 2013.
599. Colom R, Stein JL, Priya Saharan (2), Priya Rajagopalan, David Hermel (2), Yalin Wang, Juan Álvarez-Linera (3), Miguel Burgaleta (1), Kenia Martínez (1), M<sup>a</sup> Ángeles Quiroga (4), Pei Chun Shih, & **Paul Thompson** (2013). Hippocampal structure and human cognition: Key role of spatial processing and evidence supporting the efficiency hypothesis in females. **Intelligence**, 41 (2013) 129–140.
600. Sylvane Desrivieres, Anbarasu Lourdasamy, Chenyang Tao, Roberto Toro, Tianye Jia, Eva Loth, Lourdes Martinez Medina, Agnieszka Kepa, Alinda Fernandes, Barbara Ruggeri, Fabiana Carvalho, Graham Cocks, Tobias Banaschewski, Gareth Barker, Arun Bokde, Christian Büchel, Patricia Conrod, Herta Flor, Andreas Heinz, Juergen Gallinat, Hugh Garavan, Penny Gowland, Ruediger Bruehl, Claire Lawrence, Karl Mann, Marie-Laure Paillere-Martinot, Frauke Nees, Marc Lathrop, Jean-Baptiste Poline, Marcella Rietschel, **Paul Thompson**, Mira Fauth-Buehler, Michael Smolka, Zdenka Pausova, Tomáš Paus, Jianfeng Feng, and Gunter Schumann and the IMAGEN consortium ([www.imagen-europe.com](http://www.imagen-europe.com)) (2013). Single nucleotide polymorphism in the neuroplastin locus associates with cortical thickness and intellectual ability in adolescents, *Molecular Psychiatry*, in press.
601. Tammie L.S. Benzinger<sup>a12</sup>, Tyler Blazey<sup>a1</sup>, Clifford R. Jack, Jr.<sup>b</sup>, Robert A. Koeppe<sup>c</sup>, Yi Su<sup>a</sup>, Marcus E. Raichle<sup>d2</sup>, Abraham Z. Snyder<sup>d</sup>, Beau M. Ances<sup>d</sup>, Randall J. Bateman<sup>d</sup>, Nigel J. Cairns<sup>e</sup>, Anne M. Fagan<sup>d</sup>, Alison Goate<sup>f</sup>, Daniel S. Marcus<sup>a</sup>, Chengjie Xiong<sup>g</sup>, Paul S. Aisen<sup>h</sup>, Patricia Aldea<sup>a</sup>, Jon J. Christensen<sup>a</sup>, Lindsay Ercole<sup>a</sup>, Russ C. Hornbeck<sup>a</sup>, Angela M. Farrar<sup>a</sup>, Mateusz S. Jasielec<sup>g</sup>, Christopher J. Owen<sup>a</sup>, Xianyun Xie<sup>g</sup>, Richard Mayeux<sup>i</sup>, Adam M. Brickman<sup>i</sup>, Eric McDade<sup>j</sup>, William E. Klunk<sup>k</sup>, Chester A. Mathis<sup>l</sup>, John M. Ringman<sup>m</sup>, Paul M. Thompson<sup>n</sup>, Bernardino Ghetti<sup>o</sup>, Andrew J. Saykin<sup>p</sup>, Reisa A. Sperling<sup>q</sup>, Keith A. Johnson<sup>q</sup>, Stephen Salloway<sup>r</sup>, Stephen Correia<sup>s</sup>, Peter R. Schofield<sup>tu</sup>, Colin L. Masters<sup>v</sup>, Christopher C. Rowe<sup>w</sup>, Victor L. Villemagne<sup>w</sup>, Ralph N. Martins<sup>x</sup>, Martin N. Rossor<sup>y</sup>, Nick C. Fox<sup>y</sup>, David M. Cash<sup>y</sup>, Michael W. Weiner<sup>z</sup>, David M. Holtzman<sup>d</sup>, Virginia D. Buckles<sup>d</sup>, Krista Moulder<sup>f</sup>, and John C. Morris<sup>d</sup> for the Dominantly Inherited Alzheimer Network (2013). **Regional Variability of Imaging Biomarker Changes in Autosomal Dominant Alzheimer's Disease**, PNAS 2013 ; published ahead of print, November 5, 2013, doi:10.1073/pnas.1317918110.
602. Mark Walterfang<sup>1</sup>, Eileen Luders<sup>2</sup>, Jeffrey C.L. Looi<sup>3,4</sup>, Priya Rajagopalan<sup>2</sup>, Dennis Velakoulis<sup>1</sup>, **Paul M. Thompson<sup>2</sup>**, Olof Lindberg<sup>4</sup>, Per Östberg<sup>4</sup>, Love Nordin<sup>5</sup>, Leif Svensson<sup>5</sup>, Lars-Olof Wahlund (2013). **Shape analysis of the corpus callosum in Alzheimer's disease and frontotemporal lobar degeneration subtypes**, *Journal of Alzheimer's Disease*, accepted Jan 2 2014.

603. **Paul M. Thompson (+287 authors)**, Jason L. Stein<sup>1</sup>, Sarah E. Medland<sup>2,3,4</sup>, Derrek P. Hibar<sup>1</sup>, Alejandro Arias Vasquez<sup>5,6</sup>, Miguel Renteria<sup>2</sup>, Roberto Toro<sup>7,8,9</sup>, Neda Jahanshad<sup>1</sup>, Gunter Schumann<sup>81</sup>, Barbara Franke<sup>5,6</sup>, Margaret J. Wright<sup>2</sup>, Nicholas G. Martin<sup>2</sup>, Ingrid Agartz<sup>157,73</sup>, Martin Alda<sup>135</sup>, Saud Alhusaini<sup>16,133</sup>, Laura Almasy<sup>17</sup>, Jorge Almeida<sup>145,134</sup>, Kathryn Alpert<sup>161</sup>, Nancy C. Andreasen<sup>18</sup>, Ole A. Andreassen<sup>14</sup>, Liana G. Apostolova<sup>19</sup>, Katja Appel<sup>13</sup>, Nicola J. Armstrong<sup>185</sup>, Benjamin Aribisala<sup>22,23,24</sup>, Mark E. Bastin<sup>22,24,126</sup>, Michael Bauer<sup>142</sup>, Carrie E. Bearden<sup>139</sup>, Ørjan Bergmann<sup>157</sup>, Elisabeth B. Binder<sup>26</sup>, John Blangero<sup>17</sup>, Henry J. Bockholt<sup>196</sup>, Erlend Bøen<sup>157,156</sup>, Catherine Bois<sup>66</sup>, Dorret I. Boomsma<sup>28,128</sup>, Tom Booth<sup>22</sup>, Ian J. Bowman<sup>1</sup>, Janita Bralten<sup>5,29</sup>, Rachel M. Brouwer<sup>30</sup>, Han G. Brunner<sup>5</sup>, David G. Brohawn<sup>78</sup>, Randy L. Buckner<sup>122,33</sup>, Jan Buitelaar<sup>6,34</sup>, Kazima Bulayeva<sup>35</sup>, Juan R. Bustillo<sup>36</sup>, Vince D. Calhoun<sup>27,37</sup>, Dara M. Cannon<sup>38</sup>, Rita M. Cantor<sup>39</sup>, Melanie A. Carless<sup>17</sup>, Xavier Caseras<sup>173</sup>, Gianpiero L. Cavalleri<sup>16</sup>, M. Mallar Chakravarty<sup>40,168</sup>, Kiki D. Chang<sup>187</sup>, Christopher R. K. Ching<sup>1</sup>, Andrea Christoforou<sup>167,41</sup>, Sven Cichon<sup>44,45,46</sup>, Vincent P. Clark<sup>155</sup>, Patricia Conrod<sup>177,178</sup>, Giovanni Coppola<sup>139,19</sup>, Benedicto Crespo-Facorro<sup>48,49</sup>, Joanne E. Curran<sup>17</sup>, Michael Czisch<sup>26</sup>, Ian J. Deary<sup>22</sup>, Eco J.C. de Geus<sup>28,128</sup>, Anouk den Braber<sup>28</sup>, Giuseppe Delvecchio<sup>81</sup>, Chantal Depondt<sup>51</sup>, Lieuwe de Haan<sup>127</sup>, Greig I. de Zubicaray<sup>52</sup>, Danaï Dima<sup>81</sup>, Rali Dimitrova<sup>66</sup>, Srdjan Djurovic<sup>14,53</sup>, Hongwei Dong<sup>1</sup>, Gary Donohoe<sup>54,38</sup>, Ravindranath Duggirala<sup>17</sup>, Thomas D. Dyer<sup>17</sup>, Stefan Ehrlich<sup>55,56</sup>, Carl Johan Ekman<sup>73</sup>, Torbjørn Elvsåshagen<sup>157,156</sup>, Louise Emsell<sup>38</sup>, Susanne Erk<sup>57</sup>, Thomas Espeseth<sup>58,14</sup>, Jesen Fagerness<sup>33,78</sup>, Scott Fears<sup>139,39</sup>, Iryna Fedko<sup>28</sup>, Guillén Fernández<sup>29</sup>, Simon E. Fisher<sup>6,59</sup>, Tatiana Foroud<sup>104</sup>, Peter T. Fox<sup>60,180</sup>, Clyde Francks<sup>59,6</sup>, Sophia Frangou<sup>146</sup>, Eva Maria Frey<sup>150</sup>, Thomas Frodl<sup>150,151</sup>, Vincent Frouin<sup>61</sup>, Sudheer Giddaluru<sup>41,42,14</sup>, David C. Glahn<sup>10,12</sup>, Beata Godlewska<sup>136</sup>, Rita Goldstein<sup>194</sup>, Randy L. Gollub<sup>55,62</sup>, Hans J. Grabe<sup>13,63,143</sup>, Oliver Grimm<sup>64</sup>, Oliver Gruber<sup>65</sup>, Tulio Guadalupe<sup>59</sup>, Raquel E. Gur<sup>148</sup>, Ruben C. Gur<sup>148,149</sup>, Harald H.H. Göring<sup>17</sup>, Saskia Hagenaars<sup>66</sup>, Tomas Hajek<sup>135</sup>, Geoffrey B. Hall<sup>154</sup>, Jeremy Hall<sup>66,174</sup>, John Hardy<sup>67</sup>, Catharina A. Hartman<sup>69</sup>, Johanna Hass<sup>56</sup>, Sean Hatton<sup>123</sup>, Unn K. Haukvik<sup>130,14</sup>, Katrin Hegenscheid<sup>68</sup>, Andreas Heinz<sup>57</sup>, Ian B. Hickie<sup>123</sup>, Beng-Choon Ho<sup>18</sup>, David Hoehn<sup>26</sup>, Pieter J. Hoekstra<sup>69</sup>, Marisa Hollinshead<sup>122,55</sup>, Avram J. Holmes<sup>62,122,55</sup>, Georg Homuth<sup>70</sup>, Martine Hoogman<sup>5</sup>, L. Elliot Hong<sup>77</sup>, Norbert Hosten<sup>68</sup>, Jouke-Jan Hottenga<sup>28</sup>, Hilleke E. Hulshoff Pol<sup>30</sup>, Kristy S. Hwang<sup>176</sup>, Clifford R. Jack Jr<sup>192</sup>, Mark Jenkinson<sup>120</sup>, Caroline Johnston<sup>71,72</sup>, Erik G. Jönsson<sup>73</sup>, René S. Kahn<sup>30</sup>, Dalia Kasperaviciute<sup>74</sup>, Sinead Kelly<sup>54</sup>, Sungeun Kim<sup>76</sup>, Peter Kochunov<sup>77</sup>, Laura Koenders<sup>127</sup>, Bernd Krämer<sup>65</sup>, John B. J. Kwok<sup>121,175</sup>, Jim Lagopoulos<sup>123</sup>, Gonzalo Laje<sup>170</sup>, Mikael Landen<sup>165,166</sup>, Bennett A. Landman<sup>162</sup>, John Lauriello<sup>190</sup>, Stephen M. Lawrie<sup>66</sup>, Phil H. Lee<sup>78,62,4</sup>, Stephanie Le Hellard<sup>167,41</sup>, Herve Lemaitre<sup>181</sup>, Cassandra D. Leonardo<sup>1</sup>, Chiang-shan Li<sup>12</sup>, Benny Liberg<sup>73</sup>, David C. Liewald<sup>22</sup>, Xinmin Liu<sup>79,80</sup>, Lorna M. Lopez<sup>22,50</sup>, Eva Loth<sup>81</sup>, Anbarasu Lourdasamy<sup>186</sup>, Michelle Luciano<sup>22</sup>, Fabio Macciardi<sup>82</sup>, Marise W. J. Machielsen<sup>197</sup>, Glenda M. MacQueen<sup>171</sup>, Ulrik F. Malt<sup>156,157</sup>, René Mandl<sup>30</sup>, Dara S. Manoach<sup>55,62</sup>, Jean-Luc Martinot<sup>181</sup>, Mar Matarin<sup>74</sup>, Karen A. Mather<sup>83</sup>, Manuel Mattheisen<sup>84,85</sup>, Morten Mattingsdal<sup>14,86</sup>, Andreas Meyer-Lindenberg<sup>64</sup>, Colm McDonald<sup>38</sup>, Andrew M. McIntosh<sup>66</sup>, Francis J. McMahon<sup>79</sup>, Katie L. McMahon<sup>87</sup>, Eva Meisenzahl<sup>88</sup>, Ingrid Melle<sup>14</sup>, Yuri Milaneschi<sup>128,140</sup>, Sebastian Mohnke<sup>57</sup>, Grant W. Montgomery<sup>2</sup>, Derek W. Morris<sup>54</sup>, Eric K. Moses<sup>91,17</sup>, Bryon A. Mueller<sup>92</sup>, Susana Muñoz Maniega<sup>22,23,24</sup>, Thomas W. Mühleisen<sup>43,44,45</sup>, Bertram Müller-Myhsok<sup>26,172</sup>, Benson Mwangi<sup>137,138</sup>, Matthias Nauck<sup>164</sup>, Kwangsik Nho<sup>76</sup>, Thomas E. Nichols<sup>160</sup>, Lars-Göran Nilsson<sup>94,152</sup>, Allison C. Nugent<sup>163</sup>, Lars Nyberg<sup>95</sup>, Rene L. Olvera<sup>96</sup>, Jaap Oosterlaan<sup>131</sup>, Roel A. Ophoff<sup>39,30</sup>, Massimo Pandolfo<sup>51</sup>, Melina Papalampropoulou-Tsiridou<sup>66</sup>, Martina Pampmeyer<sup>66</sup>, Tomas Paus<sup>97</sup>, Zdenka Pausova<sup>98</sup>, Godfrey D. Pearlson<sup>12,191</sup>, Brenda W. Penninx<sup>90,128</sup>, Charles P. Peterson<sup>17</sup>, Andrea Pfennig<sup>142</sup>, Mary Phillips<sup>134</sup>, G. Bruce Pike<sup>159</sup>, Jean-Baptiste Poline<sup>189</sup>, Steven G. Potkin<sup>82</sup>, Benno Pütz<sup>26</sup>, Adaikalavan Ramasamy<sup>101,132</sup>, Jerod Rasmussen<sup>82</sup>, Marcella Rietschel<sup>64</sup>, Mark Rijpkema<sup>6</sup>, Shannon L. Risacher<sup>76,158</sup>, Joshua L. Roffman<sup>62</sup>, Roberto Roiz-Santiañez<sup>48,49</sup>, Nina Romanczuk-Seiferth<sup>57</sup>, Emma J. Rose<sup>193</sup>, Natalie A. Royle<sup>22,24</sup>, Dan Rujescu<sup>195</sup>, Mina Ryten<sup>67,101</sup>, Perminder S. Sachdev<sup>83,102</sup>, Alireza Salami<sup>95,188</sup>, Theodore D. Satterthwaite<sup>148</sup>, Jonathan Savitz<sup>103,169</sup>, Andrew J. Saykin<sup>76,104</sup>, Cathy Scanlon<sup>38</sup>, Lianne Schmaal<sup>90</sup>, Hugo G. Schnack<sup>30</sup>, Andrew J. Schork<sup>129</sup>, S. Charles Schulz<sup>92</sup>, Rimmelt Schür<sup>30</sup>, Larry Seidman<sup>106,144</sup>, Li Shen<sup>75,76</sup>, Jody M. Shoemaker<sup>27</sup>, Andrew Simmons<sup>107,109</sup>, Sanjay M. Sisodiya<sup>74</sup>, Colin Smith<sup>126</sup>, Jordan W. Smoller<sup>78,62,4</sup>, Jair C. Soares<sup>137</sup>, Scott R. Sponheim<sup>111,92</sup>, Emma Sprooten<sup>12</sup>, John M. Starr<sup>22,124</sup>, Vidar M. Steen<sup>167,41</sup>, Stephen Strakowski<sup>147</sup>, Lachlan Strike<sup>2</sup>, Jessika Sussmann<sup>66</sup>, Philipp G. Sämann<sup>26</sup>, Alexander Teumer<sup>70</sup>, Arthur W. Toga<sup>1</sup>, Diana Tordesillas-Gutierrez<sup>48,49</sup>, Daniah Trabzuni<sup>67,182</sup>, Sarah Trost<sup>65</sup>, Jessica Turner<sup>153,27</sup>, Martijn Van den Heuvel<sup>30</sup>, Nic J. van der Wee<sup>99</sup>, Kristel van Eijk<sup>183</sup>, Theo G.M. van Erp<sup>82</sup>, Neeltje E.M. Van Haren<sup>30</sup>, Dennis van 't Ent<sup>28</sup>, Marie-Jose van Tol<sup>113</sup>, Maria C. Valdés Hernández<sup>22,24</sup>, Dick J. Veltman<sup>90</sup>, Amelia

- Versace<sup>134</sup>, Henry Völzke<sup>114</sup>, Robert Walker<sup>125</sup>, Henrik Walter<sup>57,141</sup>, Lei Wang<sup>161</sup> Joanna M. Wardlaw<sup>22,23,24</sup>, Michael E. Weale<sup>101</sup>, Michael W. Weiner<sup>116</sup>, Wei Wen<sup>83</sup>, Lars T. Westlye<sup>14,58</sup>, Heather C. Whalley<sup>66</sup>, Christopher D. Whelan<sup>16</sup>, Tonya White<sup>118</sup>, Anderson M. Winkler<sup>120,12</sup>, Katharina Wittfeld<sup>63</sup>, Girma Woldehawariat<sup>79</sup>, Christiane Wolf<sup>26</sup>, David Zilles<sup>65</sup>, Marcel P. Zwiers<sup>6,119</sup>, the Alzheimer's Disease Neuroimaging Initiative, EPIGEN Consortium, IMAGEN Consortium, Saguenay Youth Study (SYS) Group (2014). **The ENIGMA Consortium: Large-scale Collaborative Analyses of Neuroimaging and Genetic Data, Brain Imaging & Behavior, Special Issue on Imaging Genetics (ed. John D. van Horn), in press, Jan. 2014.**
604. Cyrus A. Raji, MD, PhD (1), Sravya Mallam, B.S. (2), Nare Torosyan B.S. (2), Kirk I. Erickson, PhD (3) Oscar L. Lopez, MD (4) James T. Becker, PhD (4, 3, 5) Owen T. Carmichael, PhD (6) H. Michael Gach, PhD (7) **Paul M. Thompson**, PhD (8) W. T. Longstreth, Jr., MD (9) Lewis Kuller, MD, DrPH (10) (2014). **Physical Activity, Brain Structure, and Neurodegeneration, to be submitted, Jan. 2014.**
605. Peter Kochunov<sup>(1)#</sup>, Neda Jahanshad<sup>(2,3)#</sup>, Emma Sprooten<sup>(4)</sup>, Thomas E. Nichols<sup>(5, 6)</sup>, René C. Mandl<sup>(7)</sup>, Laura Almasy<sup>(8)</sup>, Tom Booth<sup>(9)</sup>, Rachel M. Brouwer<sup>(7)</sup>, Joanne E. Curran<sup>(8)</sup>, Greig I. de Zubicaray<sup>(10)</sup>, Rali Dimitrova<sup>(11)</sup>, Ravi Duggirala<sup>(8)</sup>, Peter T. Fox<sup>(12)</sup>, L. Elliot Hong<sup>(1)</sup>, Bennett A. Landman<sup>(13)</sup>, Hervé Lemaitre<sup>(14)</sup>, Lorna Lopez<sup>(9,15)</sup>, Nicholas G. Martin<sup>(16)</sup>, Katie L. McMahon<sup>(17)</sup>, Braxton D. Mitchell<sup>(18)</sup>, Rene L. Olvera<sup>(19)</sup>, Charles P. Peterson<sup>(8)</sup>, John M. Starr<sup>(9,20)</sup>, Jessika E. Sussmann<sup>(21)</sup>, Arthur W. Toga<sup>(2)</sup>, Joanna M. Wardlaw<sup>(13)</sup>, Margaret J. Wright<sup>(14)</sup>, Susan N. Wright<sup>(1)</sup>, Mark E. Bastin<sup>(13, 18)</sup>, Andrew M. McIntosh<sup>(21)</sup>, Dorret I Boomsma<sup>(22)</sup>, René S. Kahn<sup>(7)</sup>, Anouk den Braber<sup>(22)</sup>, Eco JC de Geus<sup>(22)</sup>, Ian J. Deary<sup>(9)</sup>, Hilleke E. Hulshoff Pol<sup>(7)</sup>, Douglas Williamson<sup>(19)</sup>, John Blangero<sup>(8)</sup>, Dennis van 't Ent<sup>(22)</sup>, **Paul M. Thompson<sup>(2,3)</sup>**, and David C. Glahn<sup>(4)</sup>, the ENIGMA-DTI Working Group (2014). **Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: comparing meta and mega analytical approaches for data pooling, submitted to NeuroImage, Oct. 2013, under minor revision, Jan. 2014.**
606. Giancarlo Zito, Eileen Luders, Leo Tomasevic, Dorian Landi, Anna Ghazarian, Domenico Lupoi, Arthur W. Toga, **Paul M. Thompson**, Paolo M. Rossini, Maria M. Filippi, Franca Tecchio (2014). Interhemispheric functional connectivity changes with corpus callosum atrophy in multiple sclerosis, *Neuroscience*, accepted, Jan 19 2014.
607. Lara C. Foland-Ross, Matthew D. Sacchet, Gautam Prasad, Brooke Gilbert, Paul M. Thompson, and Ian H. Gotlib (2014). **Neuroanatomical Predictors of Major Depression: Identifying New Biomarkers in Adolescents**, submitted to *PNAS*, Feb 21 2014.
608. **Florence F. Roussotte<sup>1</sup>**, Neda Jahanshad<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Paul M. Thompson<sup>1,6</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Altered regional brain volumes in elderly carriers of a risk variant for drug abuse in the dopamine D2 receptor gene (DRD2), Brain Imaging and Behavior**, in press, Feb. 2014.
609. Jeffrey CL Looi, Dennis Velakoulis, Mark Walterfang, Nellie Georgiou-Karistianis, Matthew D Macfarlane, Brian D Power, Christer Nilsson, Martin Styner, Paul M Thompson, Danielle Van Westen, Fiona A Wilkes and Lars-Olof Wahlund **The Australian, US, Scandinavian Imaging Exchange (AUSSIE): an innovative, virtually-integrated health research network embedded in health care**, published online 19 February 2014 *Australas Psychiatry* February 19 2014 [epub].
610. Mary Ellen Koran, Tricia Thornton-Wells, Neda Jahanshad, David Glahn, **Paul Thompson**, John Blangero, Thomas Nichols, Peter Kochunov, Bennett Landman (2014). The impact of family structure and common environment on heritability estimation for neuroimaging genetics studies using SOLAR, submitted to **Journal of Medical Imaging**, March 5 2014, provisionally accepted, April 2014.

611. Negar Memarian<sup>1</sup>, Sarah Madsen<sup>6</sup>, Paul M. Macey<sup>2</sup>, Itzhak Fried<sup>3</sup>, Jerome Engel, Jr.<sup>1,4,5</sup> Paul Thompson<sup>6</sup>, Richard J. Staba<sup>1</sup> (2014). **Differences in cortical gray matter thinning linked with two separate ictal EEG onset patterns in mesial temporal lobe epilepsy, to be submitted, March 2014.**
612. Sarah E. Medland, Neda Jahanshad, Ben Neale, **Paul M. Thompson** (2014). **Whole genome analyses of whole brain data: working in an expanded search space, submitted to Nature Neuroscience, March 2014.**
613. Sarah K. Madsen, B.S.<sup>a</sup>, Letty Liang, B.S.<sup>a</sup>, Christina P. Boyle, B.S.<sup>a</sup>, Priya Rajagopalan, M.B.B.S., M.P.H.<sup>a</sup>, Anne R. Cappola, M.D., Sc.M.<sup>b</sup>, James T. Becker, Ph.D.<sup>c</sup>, Oscar L. Lopez, M.D.<sup>d</sup>, Paul M. Thompson, Ph.D. (2013). **Thyroid Hormones are related to Brain Structure Six Years Later in 437 Euthyroid Elderly, revised for JCEM, The Journal of Clinical Endocrinology & Metabolism, March 2014.**
614. **Jahanshad N\***, Marie-Claude Couture PhD\*, Wasana Prasitsuebsai MD\*, Talia M. Nir BS\*, Linda Aurlibul, MD, Paul M. Thompson PhD, Kanchana Pruksakaew MSc, Sukalaya Lerdlum MD, Pannee Visrutaratna MD, Stephanie Catella PsyD, Akash Desai BS, Stephen J. Kerr PhD, Thanyawee Puthanakit MD, Robert Paul PhD, Jintanat Ananworanich MD PhD, Victor G. Valcour MD PhD on behalf of the SEARCH 012 and the PREDICT Study Groups. Brain imaging and neurodevelopment in HIV-uninfected Thai children born to HIV-infected mothers. **Pediatric Journal of Infectious Disease In Press**
615. Mendez MF, Aditi Joshi, Madelaine Daianu, Joseph Barsuglia, Michelle Mather, Elvira Jimenez, Paul Thompson (2014). **DESCENDING PATHWAYS FOR AROUSAL AS REVEALED BY SKIN CONDUCTANCE LEVELS IN DEMENTIA, to be submitted, March 2014.**
616. Theo G. M. van Erp<sup>1\*</sup>, Derrek P. Hibar<sup>2\*</sup>, Jerod M. Rasmussen<sup>1</sup>, David C. Glahn<sup>3,4</sup>, Godfrey D. Pearlson<sup>3,4</sup>, Ole A. Andreassen<sup>5</sup>, Ingrid Agartz<sup>5,6,,36</sup>, Lars T. Westlye<sup>5,7</sup>, Unn K. Haukvik<sup>5</sup>, Anders M. Dale<sup>8,9</sup>, Cecile B. Hartberg<sup>5,6</sup>, Oliver Gruber<sup>10</sup>, Bernd Kraemer<sup>10</sup>, David Zilles<sup>10,11</sup>, Gary Donohoe<sup>12,13</sup>, Sinead Kelly<sup>13</sup>, Colm McDonald<sup>14</sup>, Derek W. Morris<sup>12,13</sup>, Dara M. Cannon<sup>14</sup>, Aiden Corvin<sup>13</sup>, Marise W. J. Machielsen<sup>15</sup>, Laura Koenders<sup>15</sup>, Lieuwe de Haan<sup>15</sup>, Dick J. Veltman<sup>16</sup>, Theodore D. Satterthwaite<sup>17</sup>, Daniel H. Wolf<sup>17</sup>, Ruben C. Gur<sup>17</sup>, Raquel E. Gur<sup>17</sup>, Steven G. Potkin<sup>1</sup>, Daniel H. Mathalon<sup>18,19</sup>, Bryon A. Mueller<sup>20</sup>, Adrian Preda<sup>1</sup>, Fabio Macciardi<sup>1</sup>, Stefan Ehrlich<sup>21,22,23</sup>, Esther Walton<sup>21</sup>, Johanna Hass<sup>21</sup>, Vince D. Calhoun<sup>24,25</sup>, Henry J. Bockholt<sup>24,26,27</sup>, Scott R. Sponheim<sup>28</sup>, Jody M. Shoemaker<sup>24</sup>, Neeltje E. M. van Haren<sup>29</sup>, Hilleke E. Hulshoff Pol<sup>29</sup>, Roel A. Ophoff<sup>29,30</sup>, René S. Kahn<sup>29</sup>, Roberto Roiz-Santiañez<sup>31,32</sup>, Benedicto Crespo-Facorro<sup>31,32</sup>, Lei Wang<sup>33,34</sup>, Kathryn I. Alpert<sup>33</sup>, Erik G. Jönsson<sup>35</sup>, Rali Dimitrova<sup>36</sup>, Catherine Bois<sup>36</sup>, Heather C. Whalley<sup>36</sup>, Andrew M. McIntosh<sup>36</sup>, Stephen M. Lawrie<sup>36</sup>, Ryota Hashimoto<sup>37</sup>, Paul M. Thompson<sup>2\*</sup>, and Jessica Turner<sup>24,38\*</sup> for the ENIGMA-Schizophrenia Working Group (2015). **Subcortical Brain Volume Abnormalities in 2,028 Patients with Schizophrenia and 2,540 Healthy Controls via the ENIGMA Consortium, submitted to Molecular Psychiatry, 2015.**
617. Derrek P. Hibar<sup>1</sup>, Lars T. Westlye<sup>2,3</sup>, Theo G. M. van Erp<sup>4</sup>, Jerod Rasmussen<sup>4</sup>, Cassandra D. Leonardo<sup>1</sup>, Unn K. Haukvik<sup>2,5</sup>, Cecile Bhandari Hartberg<sup>2</sup>, Ingrid Agartz<sup>2,5</sup>, Anders M. Dale<sup>6,7</sup>, Oliver Gruber<sup>8</sup>, Bernd Krämer<sup>8</sup>, Sarah Trost<sup>8</sup>, Benny Liberg<sup>9</sup>, Carl Johan Ekman<sup>9</sup>, Martin Ingvar<sup>10,11,12</sup>, Mikael Landén<sup>13,14</sup>, Scott C. Fears<sup>15,16</sup>, Nelson B. Freimer<sup>16</sup>, Carrie E. Bearden<sup>17,18</sup>, and the Costa Rica/Colombia Consortium for Genetic Investigation of Bipolar Endophenotypes, David C. Glahn<sup>19,20</sup>, Godfrey D. Pearlson<sup>19,20,21</sup>, Louise Emsell<sup>22</sup>, Joanne Kenney<sup>22</sup>, Cathy Scanlon<sup>22</sup>, Colm McDonald<sup>22</sup>, Dara M. Cannon<sup>22</sup>, Jorge Almeida<sup>23</sup>, Amelia Versace<sup>24</sup>, Xavier Caseras<sup>25</sup>, Natalia S. Lawrence<sup>26</sup>, Mary L. Phillips<sup>25</sup>, Danai Dima<sup>27,28</sup>, Giuseppe Delvecchio<sup>27</sup>, Sophia Frangou<sup>28</sup>, Theodore Satterthwaite<sup>29</sup>, Daniel Wolf<sup>29</sup>, Josselin Houenou<sup>30,31</sup>, Chantal Henry<sup>31,32</sup>, Ulrik F. Malt<sup>33,34</sup>, Erlend Bøen<sup>33,34,35</sup>, Torbjørn Elvsåshagen<sup>33,34</sup>, Allan Young<sup>36</sup>, Adrian J. Lloyd<sup>37</sup>, Guy M. Goodwin<sup>38</sup>, Clare E. Mackay<sup>38</sup>, Corin Bourne<sup>38,39</sup>, Amy Bilderbeck<sup>38,40</sup>, Lucija Abramovic<sup>41</sup>, Marco P. Boks<sup>41</sup>, Neeltje E. M. van Haren<sup>41</sup>, Roel Ophoff<sup>16,41</sup>, René

Kahn<sup>41</sup>, Michael Bauer<sup>42</sup>, Andrea Pfennig<sup>42</sup>, Martin Alda<sup>43</sup>, Tomas Hajek<sup>43,44</sup>, Benson Mwangi<sup>45</sup>, Jair C. Soares<sup>45</sup>, Rali Dimitrova<sup>46</sup>, Jess E. Sussmann<sup>46</sup>, Saskia Hagenaars<sup>46</sup>, Heather C. Whalley<sup>46</sup>, Andrew M. McIntosh<sup>46</sup>, Paul M. Thompson<sup>1,17</sup>, Ole A. Andreassen<sup>2</sup> for the ENIGMA Bipolar Disorder Working Group (2015). **Robust subcortical volumetric reductions in bipolar disorder: findings from the ENIGMA bipolar disorder working group including 1,745 cases and 2,613 controls**, submitted to **JAMA Psychiatry**, 2015.

**618. Florence F. Roussotte<sup>a</sup>, Boris A. Gutman<sup>b,c</sup>, Sarah K. Madsen<sup>b,c</sup>, John B. Colby<sup>a</sup>, Paul M. Thompson<sup>a,b,c,d</sup>**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2014). **The *CLU* risk variant interacts with *ApoE* to affect ventricular expansion and surface morphology independently of dementia status in the elderly**, **Journal of Neuroscience**, 2014 May 7; 34(19): 6537–6545.

**619. Derrek P. Hibar<sup>\*1</sup>, Jason L. Stein<sup>\*1,2</sup>, Miguel E. Renteria<sup>\*3</sup>, Alejandro Arias-Vasquez<sup>\*4,5,6,7</sup>, Sylvane Desrivieres<sup>\*8</sup>, Neda Jahanshad<sup>1</sup>, Roberto Toro<sup>9</sup>, Katharina Wittfeld<sup>10,11</sup>, Micael Andersson<sup>12</sup>, Benjamin S. Aribisala<sup>13,14</sup>, Nicola J. Armstrong<sup>15,16</sup>, Manon Bernard<sup>17</sup>, Marc M. Bohlken<sup>18</sup>, Janita Bralten<sup>4,6,7</sup>, Andrew A. Brown<sup>19,20</sup>, M. Mallar Chakravarty<sup>21,22</sup>, Qiang Chen<sup>23</sup>, Christopher R.K. Ching<sup>1</sup>, Gabriel Cuellar-Partida<sup>3</sup>, Anouk den Braber<sup>24</sup>, Sudheer Giddaluru<sup>25</sup>, Aaron Goldman<sup>26</sup>, Oliver Grimm<sup>27</sup>, Tulio Guadalupe<sup>28,29</sup>, Johanna Hass<sup>30</sup>, Girma Hawariat<sup>31</sup>, Avram Holmes<sup>32,33</sup>, Martine Hoogman<sup>4,7</sup>, Deborah Janowitz<sup>11</sup>, Tianye Jia<sup>8</sup>, Sungeun Kim<sup>34,35,36</sup>, Marieke Klein<sup>4,7</sup>, Bernd Kraemer<sup>37</sup>, Phil H. Lee<sup>38,33,39,40</sup>, Michelle Luciano<sup>41</sup>, Christine Macare<sup>8</sup>, Karen A. Mather<sup>15</sup>, Manuel Mattheisen<sup>42,43,44</sup>, Yuri Milaneschi<sup>45</sup>, Kwangsik Nho<sup>34,35,36</sup>, Martina Pampmeyer<sup>46</sup>, Adaikalavan Ramasamy<sup>47,48</sup>, Shannon L. Risacher<sup>34,36</sup>, Roberto Roiz-Santiañez<sup>49,50</sup>, Emma J. Rose<sup>51</sup>, Alireza Salami<sup>12</sup>, Philipp G. Sämann<sup>52</sup>, Lianne Schmaal<sup>45</sup>, Andrew J. Schork<sup>53,54</sup>, Jean Shin<sup>17</sup>, Lachlan T. Strike<sup>3,55</sup>, Alexander Teumer<sup>56</sup>, Marjolein M.J. van Donkelaar<sup>4,7</sup>, Kristel R. van Eijk<sup>18</sup>, Lars T. Westlye<sup>57,58</sup>, Christopher D. Whelan<sup>59</sup>, Anderson M. Winkler<sup>60</sup>, Marcel P. Zwiers<sup>7</sup>, Saud Alhusaini<sup>61,59</sup>, Lavinia Athanasiu<sup>19,20</sup>, Stefan Ehrlich<sup>30,33,62</sup>, Marina M.H. Hakobyan<sup>4,7</sup>, Cecilie B. Hartberg<sup>19,63</sup>, Unn Haukvik<sup>19,63</sup>, Angelien J.G.M. Heister<sup>4,7</sup>, David Höhn<sup>52</sup>, Dalia Kasperaviciute<sup>64,65</sup>, David CM. Liewald<sup>41</sup>, Lorna M. Lopez<sup>41</sup>, Remco R.R. Makkinje<sup>4,7</sup>, Mar Matarin<sup>64</sup>, Marlies A.M. Naber<sup>4,7</sup>, Margaret Needham<sup>51</sup>, Allison C. Nugent<sup>31</sup>, Benno Pütz<sup>52</sup>, Natalie Royle<sup>13</sup>, Li Shen<sup>34,35,36</sup>, Emma Sprooten<sup>46,66,67</sup>, Daniah Trabzuni<sup>48,68</sup>, Saskia S.L. van der Marel<sup>4,7</sup>, Kimm J.E. van Hulzen<sup>4,7</sup>, Esther Walton<sup>30</sup>, Christiane Wolf<sup>52</sup>, Laura Almasy<sup>69</sup>, David Ames<sup>70,71</sup>, Sampath Arepalli<sup>72</sup>, Amelia A. Assareh<sup>15</sup>, Mark Bastin<sup>73,13</sup>, Henry Brodaty<sup>15,74</sup>, Kazima B. Bulayeva<sup>75</sup>, Melanie A. Carless<sup>69</sup>, Sven Cichon<sup>76,77,78</sup>, Aiden Corvin<sup>51</sup>, Joanne E. Curran<sup>69</sup>, Michael Czisch<sup>52</sup>, Greig I. de Zubicaray<sup>55</sup>, Allissa Dillman<sup>72</sup>, Ravi Duggirala<sup>69</sup>, Thomas D. Dyer<sup>69</sup>, Susanne Erk<sup>79</sup>, Iryna O. Fedko<sup>24</sup>, Luigi Ferrucci<sup>80</sup>, Tatiana M. Foroud<sup>81,36</sup>, Peter T. Fox<sup>82</sup>, Masaki Fukunaga<sup>83</sup>, Raphael Gibbs<sup>72,48</sup>, Harald H.H. Göring<sup>69</sup>, Robert C. Green<sup>84,39</sup>, Sebastian Guelfi<sup>48</sup>, Narelle K. Hansell<sup>3</sup>, Catharina A. Hartman<sup>85</sup>, Katrin Hegenscheid<sup>86</sup>, Andreas Heinz<sup>79</sup>, Dena G. Hernandez<sup>72,48</sup>, Dirk Heslenfeld<sup>87</sup>, Pieter J. Hoekstra<sup>85</sup>, Florian Holsboer<sup>52</sup>, Georg Homuth<sup>88</sup>, Jouke-Jan Hottenga<sup>24</sup>, Masashi Ikeda<sup>89</sup>, Clifford R. Jack Jr.<sup>90</sup>, Mark Jenkinson<sup>91</sup>, Robert Johnson<sup>92</sup>, Ryota Kanai<sup>93,94</sup>, Maria Keil<sup>37</sup>, Jack W. Kent Jr.<sup>69</sup>, Peter Kochunov<sup>95</sup>, John B. Kwok<sup>96,97</sup>, Stephen M. Lawrie<sup>46</sup>, Xinmin Liu<sup>31,98</sup>, Dan L. Longo<sup>99</sup>, Katie L. McMahon<sup>100</sup>, Eva Meisenzahl<sup>101</sup>, Ingrid Melle<sup>19,20</sup>, Sebastian Mohnke<sup>79</sup>, Grant W. Montgomery<sup>3</sup>, Jeanette C. Mostert<sup>4,102</sup>, Thomas W. Mühleisen<sup>78,77</sup>, Michael A. Nalls<sup>72</sup>, Thomas E. Nichols<sup>103,91</sup>, Lars G. Nilsson<sup>12</sup>, Markus M. Nöthen<sup>77,104</sup>, Kazutaka Ohi<sup>105</sup>, Rene L. Olvera<sup>82</sup>, Rocio Perez-Iglesias<sup>106,50</sup>, G. Bruce. Pike<sup>107</sup>, Steven G. Potkin<sup>108</sup>, Ivar Reinvang<sup>58</sup>, Simone Reppermund<sup>15</sup>, Marcella Rietschel<sup>27</sup>, Nina Romanczuk-Seiferth<sup>79</sup>, Glenn D. Rosen<sup>109,110</sup>, Dan Rujescu<sup>101</sup>, Knut Schnell<sup>111</sup>, Peter R. Schofield<sup>96,97</sup>, Colin Smith<sup>112</sup>, Vidar M. Steen<sup>113,114</sup>, Jessika E. Sussmann<sup>46</sup>, Anbupalam Thalamuthu<sup>15</sup>, Arthur W. Toga<sup>115</sup>, Bryan Traynor<sup>72</sup>, Juan Troncoso<sup>116</sup>, Jessica A. Turner<sup>117</sup>, Dennis van 't Ent<sup>24</sup>, Marcel van der Brug<sup>118</sup>, Nic J.A. van der Wee<sup>119</sup>, Marie-Jose van Tol<sup>120</sup>, Dick J.**

Veltman<sup>45</sup>, Thomas H. Wassink<sup>121</sup>, Eric Westman<sup>122</sup>, Ronald H. Zielke<sup>92</sup>, Alan Zonderman<sup>123</sup>, David G. Ashbrook<sup>124</sup>, Reinmar Hager<sup>124</sup>, Lu Lu<sup>125,126</sup>, Francis J. McMahon<sup>31</sup>, Derek W. Morris<sup>127,51</sup>, Robert W. Williams<sup>125,126</sup>, Han G. Brunner<sup>4,7</sup>, Randy L. Buckner<sup>128,33</sup>, Jan K. Buitelaar<sup>6,7,129</sup>, Wiepke Cahn<sup>18</sup>, Vince D. Calhoun<sup>130,131</sup>, Gianpiero L. Cavalleri<sup>59</sup>, Benedicto Crespo-Facorro<sup>49,50</sup>, Anders M. Dale<sup>132,133</sup>, Gareth E. Davies<sup>134</sup>, Norman Delanty<sup>135,59</sup>, Chantal Depondt<sup>136</sup>, Srdjan Djurovic<sup>19,137</sup>, Wayne C. Drevets<sup>31,138</sup>, Thomas Espeseth<sup>58,57</sup>, Randy L. Gollub<sup>33,62,39</sup>, Beng-Choon Ho<sup>139</sup>, Wolfgang Hoffmann<sup>56,10</sup>, Norbert Hosten<sup>86</sup>, René S. Kahn<sup>18</sup>, Stephanie Le Hellard<sup>113,114</sup>, Andreas Meyer-Lindenberg<sup>27</sup>, Bertram Müller-Myhsok<sup>52,140,141</sup>, Matthias Nauck<sup>142</sup>, Lars Nyberg<sup>12</sup>, Roel A. Ophoff<sup>143,18</sup>, Massimo Pandolfo<sup>136</sup>, Brenda W.J.H. Penninx<sup>45</sup>, Joshua Roffman<sup>33</sup>, Sanjay M. Sisodiya<sup>64</sup>, Jordan W. Smoller<sup>38,33,39,40</sup>, Hans van Bokhoven<sup>4,7</sup>, Neeltje E.M. van Haren<sup>18</sup>, Henry Völzke<sup>56</sup>, Henrik Walter<sup>79</sup>, Michael W. Weiner<sup>144</sup>, Wei Wen<sup>15</sup>, Tonya White<sup>145,146</sup>, Ingrid Agartz<sup>19,63,147</sup>, Ole A. Andreassen<sup>19,20</sup>, John Blangero<sup>69</sup>, Dorret I. Boomsma<sup>24</sup>, Rachel M. Brouwer<sup>18</sup>, Dara M. Cannon<sup>31,148</sup>, Mark R. Cookson<sup>72</sup>, Eco J.C. de Geus<sup>149</sup>, Ian J. Deary<sup>41</sup>, Gary Donohoe<sup>127,51</sup>, Guillén Fernández<sup>7</sup>, Simon E. Fisher<sup>28,7</sup>, Clyde Francks<sup>28,7</sup>, David C. Glahn<sup>66,67</sup>, Hans J. Grabe<sup>11,150</sup>, Oliver Gruber<sup>37,52</sup>, John Hardy<sup>48</sup>, Ryota Hashimoto<sup>151</sup>, Hilleke E. Hulshoff Pol<sup>18</sup>, Erik Jönsson<sup>147</sup>, Iwona Kloszewska<sup>152</sup>, Simon Lovestone<sup>153,154</sup>, Venkata S. Mattay<sup>23</sup>, Colm McDonald<sup>148</sup>, Andrew M. McIntosh<sup>46</sup>, Tomas Paus<sup>155,156</sup>, Zdenka Pausova<sup>17,157</sup>, Mina Ryten<sup>48,47</sup>, Perminder S. Sachdev<sup>15,158</sup>, Andrew J. Saykin<sup>34,36,81</sup>, Andy Simmons<sup>159,160,161</sup>, Andrew Singleton<sup>72</sup>, Hilka Soininen<sup>162,163</sup>, Joanna A. Wardlaw<sup>13,164</sup>, Michael E. Weale<sup>47</sup>, Daniel R. Weinberger<sup>23,165</sup>, Heeb H.H. Adams<sup>166,146</sup>, Lenore J. Launer<sup>167</sup>, Reinhold Schmidt<sup>168</sup>, Ganesh Chauhan<sup>169</sup>, Claudia Satizabal<sup>170,171</sup>, James Becker<sup>172,173,174</sup>, Lisa Yanek<sup>175</sup>, Sven J. van der Lee<sup>176</sup>, Maritza Ebling<sup>62,177</sup>, Bruce Fischl<sup>62,177</sup>, W.T. Longstreth<sup>178</sup>, Douglas Greve<sup>62,177</sup>, Helena Schmidt<sup>179</sup>, Paul Nyquist<sup>180</sup>, Louis N. Vinke<sup>62,177</sup>, Cornelia M. van Duijn<sup>176,181</sup>, Xue Luting<sup>182</sup>, Bernard Mazoyer<sup>183</sup>, Joshua C. Bis<sup>184</sup>, Vilmundur Gudnason<sup>185</sup>, Sudha Seshadri<sup>170,171</sup>, M. Arfan Ikram<sup>166,146</sup>, the ADNI, the CHARGE Consortium, EPIGEN, IMAGEN, SYS, Nicholas G. Martin<sup>\*3</sup>, Margaret J. Wright<sup>\*3,55</sup>, Gunter Schumann<sup>\*8</sup>, Barbara Franke<sup>\*4,5,7</sup>, **Paul M. Thompson<sup>\*+1</sup>**, Sarah E. Medland<sup>\*</sup> (2015). **Common genetic variants influence human subcortical brain structures, Nature, January 2015.**

620. Kelvin K. Leung<sup>a</sup>, ..., Paul M. Thompson<sup>b</sup>, Clifford R. Jack, Jr.<sup>c</sup>, Nick C. Fox<sup>a,\*</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2014). Effects of changing from non-accelerated to accelerated MRI for follow-up in brain atrophy measurement, to be submitted, April 2014.
621. Cyrus A. Raji, Kirk I. Erickson, Oscar Lopez, MD, Lewis H. Kuller, MD, Dr.PH, Michael Gach, PhD, Paul M. Thompson, PhD, Mario Riverol, James T. Becker, PhD (2014). **Regular Fish Consumption and Age-Related Brain Gray Matter Loss, American Journal of Preventive Medicine**, accepted, in press.
622. **Dennis EL**, Jin Y, Villalon-Reina JE, Zhan L, Kernan CL, Babikian T, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2014). White Matter Disruption in Moderate/Severe Pediatric Traumatic Brain Injury: Advanced Tract-Based Analyses. *NeuroImage: Clinical*, 7, 493-505.
623. Kumarasinghe N, Paul E. Rasser, Jayan Mendis, Jessica Bergmann, Lilly Knechtel, Stewart Oxley, Antoinette Perera, **Paul M. Thompson**, Paul A. Tooney, and Ulrich Schall (2014). Age effects on cerebral grey matter in schizophrenia and their associations with psychopathology, cognition and treatment response in previously untreated patients, **Journal of Psychiatry and Neuroscience**, in press, May 2014.
624. William R Fulham<sup>a,b,c\*</sup>, Patricia T Michie<sup>a,b,d</sup>, Philip B Ward<sup>e,f</sup>, Paul E Rasser<sup>a,b,c</sup>, Juanita Todd<sup>a,b,d</sup>, Patrick Johnston<sup>b,c</sup>, **Paul M Thompson<sup>b,g</sup>**, Ulrich Schall (2014). Mismatch Negativity in Recent Onset and Long Duration Schizophrenia: A Current Source Density Analysis, **PLOS ONE**, in press.

625. Hua X, Boyle CP, Harezlak J, Tate D, Yiannoutsos C, Cohen R, Schifitto G, Gongvatana A, Zhong J, Zhu T, Taylor MJ, Campbell T, Daar E, Alger JR, Singer E, Navia B, **Thompson PM** & HIV Neuroimaging Consortium 2013 Disrupted cerebral metabolite levels and lower nadir CD4 counts are linked to brain volume deficits in 210 HIV-infected patients on stable treatment. *Neuroimage Clin.* 2013 Aug 3;3:132-42. doi: 10.1016/j.nicl.2013.07.009. eCollection 2013. PMID: 24179857 [PubMed] **Free PMC Article.**
626. Kenia Martínez<sup>1,2</sup>, Anand A. Joshi<sup>3</sup>, Sarah K. Madsen<sup>4</sup>, Shantanu Joshi<sup>5</sup>, Francisco J. Román<sup>1</sup>, Julio Villalon-Reina<sup>3</sup>, Miguel Burgaleta<sup>6</sup>, Juan Álvarez-Linera<sup>7</sup>, Sherif Karama<sup>8</sup>, Richard J. Haier<sup>9</sup>, Joost Jansen<sup>2</sup>, Paul M. Thompson<sup>3</sup>, Roberto Colom (2014). Reproducibility of Brain-Cognition Relationships Using Three Cortical Surface-Based Protocols: An exhaustive analysis based on cortical thickness. To be submitted, June 2014.
627. K.-K. Shen<sup>1</sup>, S. Rose<sup>1</sup>, J. Fripp<sup>1</sup>, K. L. McMahon<sup>2</sup>, G. I. de Zubicaray<sup>3</sup>, N. G. Martin<sup>4</sup>, **P. M. Thompson<sup>5</sup>**, M. J. Wright<sup>4</sup>, O. Salvado (2014). Investigating brain connectivity heritability in a twin study using diffusion imaging data, **NeuroImage**, in press, June 2014.
628. Zuyao Y. Shan<sup>1</sup>, Anna A. E. Vinkhuyzen<sup>2</sup>, **Paul M. Thompson<sup>3</sup>**, Katie L. McMahon<sup>1</sup>, Gabriëlla A. M. Blokland<sup>1,4</sup>, Greig I. de Zubicaray<sup>5</sup>, Nicholas G. Martin<sup>4</sup>, Peter M. Visscher<sup>2</sup>, Margaret J. Wright<sup>4</sup>, David C. Reutens<sup>1</sup> (2014). Genes influence the amplitude and timing of brain hemodynamic responses, submitted to Science, July 2014.
629. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Martin Reuter<sup>3</sup>, Jonathan D. Blumenthal<sup>5</sup>, Arthur W. Toga<sup>4</sup>, Paul M. Thompson<sup>1</sup>, Jay N. Giedd (2014). **Effect of Chromosome Dosage Ratio on Corpus Callosum Morphology in Supernumerary Sex Chromosome Aneuploidies**, *Biology of Sex Differences*, under revision, June 2014.
630. K. B. Bulayeva<sup>1\*</sup>, S. J. Glatt<sup>2</sup>, C. A. Walsh<sup>3</sup>, F. R. Gurganova<sup>1</sup>, I. Berdichevets<sup>1</sup>, O.A. Bulayev<sup>1</sup>, P. M. Thompson (2013). Significant linkage and structural-genomic variants at 12q24.21-q24.32 found in genetic isolate with aggregation of unspecific mental retardation. **J. Open Genomics.** 2-1.
631. Kazima Bulayeva, Oleg Bulayev, Stephen Glatt, Farida Gurganova, Irina Berdichevets, Jamilja Omarova, Paul Thompson. (2014). CNV in genomic regions linked with mental retardation and schizophrenia pedigrees ascertained in highland genetic isolate. *J. Biol Psychiatry*. Submitted.
632. Eileen Luders<sup>1\*</sup>, Paul M. Thompson<sup>2</sup>, Florian Kurth (2014). **Larger Hippocampal Dimensions in Meditation Practitioners: Differential Effects in Women and Men**, to be submitted to *Neuroscience*, July 2014.
633. Emily L. Dennis<sup>1</sup>, Neda Jahanshad; Meredith Braskie; Nicholas Warstadt; Derrek Hibar; Omid Kohannim; Talia Nir; Katie McMahon; Greig de Zubicaray; Grant Montgomery; Nicholas Martin; Arthur Toga; Margaret Wright; **Paul M. Thompson** (2014). Obesity Gene *NEGR1* Associated with White Matter Integrity in Healthy Young Adults, **NeuroImage**, in press, July 22 2014.
634. Gautam Prasad, Anand A. Joshi, Albert Feng, Arthur W. Toga, **Paul M. Thompson**, Demetri Terzopoulos (2014). Skull Stripping with Machine Learning Deformable Organisms, **Journal of Neuroscience Methods**, July 2014, accepted.
635. Gautam Prasad, Shantanu Joshi, Talia Nir, Iman Aganj, Christophe Lenglet, Guillermo Sapiro, Arthur Toga, **Paul M. Thompson** (2014). Modeling Brain Connectivity as Flow, **Human Brain Mapping**, under revision, July 2014.
636. Salil Soman, Gautam Prasad, **Paul Thompson** (2014). Identifying Patients at Increased Risk for Cognitive Decline After Carotid Intervention Using Pre-operative Structural Connectivity Analysis, to be submitted, Aug. 2014.



637. Jin Y, Shi Y, Zhan L, Gutman BA, de Zubicaray GI, McMahon KL, Wright MJ, Toga AW, **Thompson PM** (2014). Automatic clustering of white matter fibers in brain diffusion MRI with an application to genetics, **NeuroImage**, in press.
638. Toga AW, **Thompson PM** (2014). Connectopathy in Aging & Dementia, **Brain**, invited commentary, Aug. 2014, submitted.
639. Matthew D. Sacchet, <sup>2,3</sup>Gautam Prasad, <sup>2</sup>Lara C. Foland-Ross, <sup>4</sup>Shantanu H. Joshi, J. Paul Hamilton, **Paul M. Thompson**, Ian H. Gotlib (2014). Structural Abnormality of the Corticospinal Tract in Major Depressive Disorder, *Biology of Mood & Anxiety Disorders*, accepted, Aug. 2014.
640. Kai-kai Shen<sup>a</sup>, Vincent Doré<sup>a</sup>, Stephen Rose<sup>a</sup>, Jurgen Fripp<sup>a</sup>, Katie L. McMahon<sup>b</sup>, Greig I. de Zubicaray<sup>c</sup>, Nicholas G. Martin<sup>d</sup>, Paul M. Thompson<sup>e</sup>, Margaret J. Wright<sup>a</sup>, Olivier Salvado (2014). **Heritability analysis of the cerebral cortex and associated white matter connections**, submitted to *PNAS*, Aug. 2014.
641. Lianne Schmaal<sup>1</sup>, Dick J. Veltman<sup>1</sup>, Theo G.M. van Erp<sup>2</sup>, Philipp G. Sämann<sup>3</sup>, Thomas Frodl<sup>4,5</sup>, Neda Jahanshad<sup>6</sup>, Elizabeth Loehrer<sup>7</sup>, Henning Tiemeier<sup>7,8</sup>, Albert Hofman<sup>7</sup>, Wiro J. Niessen<sup>9,10</sup>, Meike W. Vernooij<sup>7,9</sup>, M. Arfan Ikram<sup>7,9,11</sup>, Katharina Wittfeld<sup>12</sup>, Hans J. Grabe<sup>12,13,14</sup>, Andrea Block<sup>13</sup>, Katrin Hegenscheid<sup>15</sup>, Henry Völzke<sup>16</sup>, David Hoehn<sup>3</sup>, Michael Czisch<sup>3</sup>, Jim Lagopoulos<sup>17</sup>, Sean N. Hatton<sup>17</sup>, Ian B. Hickie<sup>17</sup>, Roberto Goya-Maldonado<sup>18</sup>, Bernd Krämer<sup>18</sup>, Oliver Gruber<sup>18</sup>, Baptiste Couvy-Duchesne<sup>19,20,21</sup>, Miguel E. Rentería<sup>19</sup>, Lachlan T. Strike<sup>19</sup>, Natalie T. Mills<sup>19,22</sup>, Greig I. de Zubicaray<sup>20</sup>, Katie L. McMahon<sup>21</sup>, Sarah E. Medland<sup>19</sup>, Nicholas G. Martin<sup>19</sup>, Nathan A. Gillespie<sup>23</sup>, Margaret J. Wright<sup>19</sup>, Geoffrey B. Hall<sup>24,25</sup>, Glenda M. MacQueen<sup>26</sup>, Eva Maria Frey<sup>4</sup>, Angela Carballedo<sup>27</sup>, Laura S. van Velzen<sup>1</sup>, Marie Jose van Tol<sup>28</sup>, Nic J. van der Wee<sup>29,30</sup>, Ilya M. Veer<sup>31</sup>, Henrik Walter<sup>31</sup>, Knut Schnell<sup>32</sup>, Elisabeth Schramm<sup>33,34</sup>, Claus Normann<sup>33</sup>, Dieter Schoepf<sup>35</sup>, Carsten Konrad<sup>36</sup>, Bartosz Zurowski<sup>37</sup>, Thomas Nickson<sup>38</sup>, Andrew M. McIntosh<sup>38,39</sup>, Martina Pappmeyer<sup>38</sup>, Heather C. Whalley<sup>38</sup>, Jessika E. Sussmann<sup>38</sup>, Beata R. Godlewska<sup>40</sup>, Philip J. Cowen<sup>40</sup>, Felix H. Fischer<sup>41,42</sup>, Matthias Rose<sup>41,43</sup>, Brenda W.J.H. Penninx<sup>1</sup>, Paul M. Thompson<sup>6</sup>, and Derrek P. Hibar<sup>6</sup> for the ENIGMA-Major Depressive Disorder Working Group<sup>44</sup> (2015). **Subcortical Brain Volume Abnormalities in Major Depressive Disorder: prospective meta-analytic findings from the ENIGMA Major Depressive Disorder Working Group including 1,808 cases and 7,223 controls**, submitted to **Molecular Psychiatry**, 2015, in press.
642. Rentería, Miguel; Hansell, Narelle; Strike, Lachlan; McMahon, Katie; de Zubicaray, Greig; Hickie, Ian; **Thompson, Paul**; Martin, Nicholas; Medland, Sarah; Wright, Margie (2014). *Genetic Architecture of Subcortical Brain Regions: Common and Region-Specific Genetic Contributions*, **Genes, Brain and Behavior**, accepted, Sept. 7 2014.
643. Jie Shi MS<sup>1</sup>, Cynthia M. Stonnington MD<sup>2</sup>, Paul M. Thompson PhD<sup>3</sup>, Kewei Chen PhD<sup>4</sup>, Boris Gutman PhD<sup>3</sup>, Cole Reschke BS<sup>4</sup>, Leslie C. Baxter PhD<sup>5</sup>, Eric M. Reiman MD<sup>4</sup>, Richard J. Caselli MD<sup>6</sup>, Yalin Wang PhD<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2014). **STUDYING VENTRICULAR ABNORMALITIES IN MILD COGNITIVE IMPAIRMENT WITH HYPERBOLIC RICCI FLOW AND TENSOR-BASED MORPHOMETRY**, IN PRESS, SEPT 29 2014.
644. Yaling Yang, Ph.D. <sup>1</sup>, Pan Wang, Ph.D. <sup>2</sup>, Laura A. Baker, Ph.D. <sup>2</sup>, Katherine L. Narr, Ph.D. <sup>3</sup>, Shantanu H. Joshi, Ph.D. <sup>3</sup>, George Hafzalla, B.S. <sup>1</sup>, Adrian Raine, D. Phil. <sup>4</sup>, & **Paul M. Thompson, Ph.D.**<sup>3,5</sup>. (2014). Thicker

Temporal Cortex Associates with a Developmental Propensity for Psychopathic Traits in Adolescents, *PLOS ONE*, submitted, Sept. 30 2014.

645. David George Ashbrook; Robert W Williams; Lu Lu; Jason L Stein; Derrek P Hibar; Thomas E Nichols; Sarah E Medland; **Paul M Thompson**; Reinmar Hager (2014). Joint Genetic Analysis of Hippocampal Size in Mouse and Human Identifies a Novel Gene Linked to Neurodegenerative Disease, *BMC Genomics*, 2014, 15:850, DOI: 10.1186/1471-2164-15-850, Oct. 3 2014.
646. Edmond Teng<sup>1,2</sup>, Nicole Chow<sup>1,3</sup>, Kristy S. Hwang<sup>1,3</sup>, **Paul M. Thompson**<sup>1,3,4</sup>, Karen H. Gylys<sup>5</sup>, Gregory M. Cole<sup>1,2</sup>, Clifford R. Jack, Jr.<sup>6</sup>, Leslie M. Shaw<sup>7</sup>, John Q. Trojanowski<sup>7</sup>, Holly D. Soares<sup>8</sup>, Michael W. Weiner<sup>9,10</sup>, and Liana G. Apostolova<sup>1,3</sup> for the Alzheimer's Disease Neuroimaging Initiative\* (2014). Low plasma ApoE levels are associated with smaller hippocampal size in the Alzheimer's Disease Neuroimaging Initiative (ADNI) cohort, submitted to *Dementia and Geriatric Cognitive Disorders*, Oct 2014.
647. Jalbrzikowski M, Julio E. Villalon-Reina, Katherine H. Karlsgodt, Damla Senturk, Carolyn Chow, **Paul Thompson**, Carrie E Bearden\* (2014). Altered white matter microstructure is associated with social cognition and psychotic symptoms in 22q11.2 microdeletion syndrome, in press, *Frontiers in Behavioral Neuroscience*, Oct. 22 2014.
648. Michael W. Weiner<sup>a,b,c,d,e,\*</sup>, Dallas P. Veitch<sup>a</sup>, Paul S. Aisen<sup>f</sup>, Laurel A. Beckett<sup>g</sup>, Nigel J. Cairns<sup>h,i</sup>, Jesse Cedarbaum<sup>j</sup>, Michael C. Donohue<sup>k</sup>, Robert C. Green<sup>l</sup>, Danielle Harvey<sup>g</sup>, Clifford R. Jack Jr<sup>m</sup>, William Jagust<sup>n</sup>, John C. Morris<sup>i</sup>, Ronald C. Petersen<sup>o</sup>, Andrew J. Saykin<sup>p</sup>, Leslie Shaw<sup>q</sup>, **Paul M. Thompson**<sup>r</sup>, Arthur W. Toga<sup>s</sup>, John Q. Trojanowski<sup>u,v,w</sup>, Alzheimer's Disease Neuroimaging Initiative (2015). Impact of the Alzheimer's Disease Neuroimaging Initiative, 2004-2014. submitted, Dec. 2014.
649. Yi Su<sup>a</sup>, Tyler M. Blazey<sup>a</sup>, Abraham Z. Snyder<sup>a</sup>, Marcus E. Raichle<sup>a</sup>, Daniel S. Marcus<sup>a</sup>, Beau M. Ances<sup>b</sup>, Randall J. Bateman<sup>b</sup>, Nigel J. Cairns<sup>c</sup>, Anne M. Fagan<sup>b</sup>, Alison Goate<sup>d</sup>, Chengjie Xiong<sup>e</sup>, Patricia Aldea<sup>a</sup>, Lisa Cash<sup>a</sup>, Jon J. Christensen<sup>a</sup>, Karl Friedrichsen<sup>a</sup>, Russ C. Hornbeck<sup>a</sup>, Angela M. Farrar<sup>a</sup>, Christopher J. Owen<sup>a</sup>, Robert A. Koeppe<sup>f</sup>, Clifford R Jack, Jr.<sup>g</sup>, Paul S. Aisen<sup>h</sup>, Richard Mayeux<sup>i</sup>, Adam Brickman<sup>i</sup>, Eric McDade<sup>j</sup>, William Klunk<sup>k</sup>, Chester A. Mathis<sup>l</sup>, John Ringman<sup>m</sup>, **Paul M. Thompson**<sup>a</sup>, Bernadino Ghetti<sup>o</sup>, Andrew J. Saykin<sup>p</sup>, Reisa A. Sperling<sup>q</sup>, Keith A. Johnson<sup>q</sup>, Stephen Salloway<sup>r</sup>, Stephen Correia<sup>s</sup>, Peter R. Schofield<sup>t,u</sup>, Colin L. Masters<sup>v</sup>, Christopher Rowe<sup>w</sup>, Victor L. Villemagne<sup>w</sup>, Ralph Martins<sup>x</sup>, Sebastien Ourselin<sup>y</sup>, Martin Rossor<sup>y</sup>, Nick C. Fox<sup>y</sup>, Michael W. Weiner<sup>z</sup>, David M. Holtzman<sup>b</sup>, Virginia Buckles<sup>b</sup>, Krista Moulder<sup>c</sup>, John C. Morris<sup>b</sup>, Tammie. LS. Benzinger<sup>a</sup>, and the Dominantly Inherited Alzheimer Network (2014). Impact of Partial Volume Correction on Amyloid Imaging, *NeuroImage*, 2014, in press.
650. Sima Chalavi, PhD <sup>1,2</sup>; Eline M. Vissia, MSc <sup>1</sup>; Mechteld E. Giesen, MSc <sup>1</sup>; Ellert R.S. Nijenhuis, PhD <sup>3</sup>; Nel Draijer, PhD <sup>4</sup>; James H. Cole, PhD <sup>5</sup>; Paola Dazzan, MD, PhD<sup>6,7</sup>; Carmine M. Pariante, MD, PhD <sup>8</sup>; Sarah Madsen, PhD <sup>9</sup>; Priya Rajagopalan, MBBS MPH <sup>9,10</sup>; Paul M. Thompson, PhD <sup>9</sup>; Arthur W. Toga, PhD <sup>9</sup>; Dick J. Veltman, PhD <sup>4</sup>; Antje A.T.S. Reinders (2014). Hippocampal Morphology in Dissociative Identity Disorder and Posttraumatic Stress disorder: Relation to Childhood Trauma and Dissociative Symptoms, *Human Brain Mapping*, in press, Dec. 2014.
651. Kazima Bulayeva, Klaus-Peter Lesch, Oleg Bulayev, Christopher Walsh, Stephen Glatt, Farida Gurganova, Jamilja Omarova, Irina Berdichevets, **Paul M. Thompson** (2015). Genomic structural variants linked with intellectual disability. *Journal of Neural Transmission*, 2015 Jan 28 [epub].

652. Shantanu Joshi, PhD, Nathalie Vizueta, PhD, Katherine Narr, PhD, Susan Y. Bookheimer, PhD, Paul M. Thompson, PhD<sup>3</sup>, Lori L. Altshuler MD (2015). Reduced fMRI BOLD activation in frontal cortex during response inhibition is associated with reduced cortical thickness in bipolar disorder, **to be submitted, Jan. 2015.**
653. Babiloni Claudio<sup>1,2</sup>, Vecchio Fabrizio<sup>3</sup>, Boccardi Marina<sup>4</sup>, Del Percio Claudio<sup>5</sup>, Lizio Roberta<sup>5</sup>, Soricelli Andrea<sup>6,7</sup>, Ferri Raffaele<sup>8</sup>, Triggiani Ivano<sup>1</sup>, Presti Anna Paola<sup>4</sup>, Salinari Serenella<sup>9</sup>, Rasser Paul<sup>10,11</sup>, Thompson Paul M<sup>12</sup>, Frisoni Giovanni B<sup>4</sup>, and Rossini Paolo M.<sup>2,13</sup> (2015). OCCIPITAL SOURCES OF RESTING STATE ALPHA RHYTHMS ARE RELATED TO LOCAL GRAY MATTER DENSITY IN SUBJECTS WITH AMNESIC MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE, *Neurobiology of Aging*, 36 (2015), pp. 556-570, DOI: 10.1016/j.neurobiolaging.2014.09.011.
654. Matthew D. Sacchet,<sup>2,3</sup> Gautam Prasad, Lara C. Foland-Ross, **Paul M. Thompson**, Ian H. Gotlib (2015). Support vector machine classification of Major Depressive Disorder using diffusion-weighted neuroimaging and graph theory, *Frontiers in Psychiatry (Affective Disorders and Psychosomatic Research section)*, in press, 2015.
655. Gabriel Cuellar-Partida<sup>1,2,\*</sup>, Miguel E. Rentería<sup>1,\*</sup>, Lachlan T. Strike<sup>1</sup>, Jessica R. Crawshaw<sup>1</sup>, Baptiste Couvy-Duchesne<sup>1</sup>, Puya Gharhakhani<sup>1</sup>, Greig I. de Zubicaray<sup>3</sup>, Katie L. McMahon<sup>4</sup>, Paul M. Thompson<sup>5,6</sup>, Ian B. Hickie<sup>7</sup>, Stuart MacGregor<sup>1</sup>, Nicholas G. Martin<sup>1</sup>, Margaret J. Wright (2015). **Mendelian Randomisation Demonstrates Causal Effect of Obesity on Brain Volume, to be submitted, Feb. 2015.**
656. Cyrus A. Raji, Carissa White, Sravya Mallam, Nare Torosyan, Sarah C. McEwen, Kirk I. Erickson, Oscar L. Lopez, James T. Becker, Owen T. Carmichael, H. Michael Gach, Paul M. Thompson, W. T. Longstreth, Jr., Lewis Kuller, MD, DrPH (10) **Higher levels of physical activity are associated with brain volume in a large sample of older adults, to be submitted, Feb. 2015.**
657. **Paul Thompson and Neda Jahanshad (2015). Novel Neuroimaging Methods to Understand how HIV Affects the Brain**, Invited Article, *Current HIV/AIDS Reports*, 2015 Jun;12(2):289-98. doi: 10.1007/s11904-015-0268-6. PMID: 25902966.
658. Sarah K. Madsen<sup>a,b</sup>, Ph.D., Alex Zai<sup>c</sup>, B.S., Tara Pirnia<sup>c</sup>, B.S., Donatello Arienzo<sup>d</sup>, Ph.D., Liang Zhan<sup>a,b</sup>, Ph.D., Teena Moody<sup>d</sup>, Ph.D., **Paul M. Thompson<sup>a,b,c,d</sup>**, Ph.D., Jamie D. Feusner<sup>d</sup>, M.D. (2015). **Cortical thickness and Brain Volumetric Analysis in Body Dysmorphic Disorder**, *Psychiatry Research – Neuroimaging*, in press, Feb. 2015.
659. Sarah K. Madsen, Chris Adamson<sup>2</sup>, Mark Walterfang<sup>3</sup>, Dennis Velakoulis<sup>3</sup>, Marc Seal<sup>2</sup>, Jeffrey C.L. Looi, Paul M. Thompson (2015). Associations between Corpus Callosum Morphometry and Regional Cortical Thickness in 834 Older Adults, to be submitted to **Human Brain Mapping**, Feb. 13 2015.
660. Lubov E. Zeifman, William F. Eddy, Oscar L. Lopez, Lewis H. Kuller, Cyrus Raji, Paul M. Thompson, James T. Becker (2015). **Voxel Level Analysis of Grey Matter Volume and Time to Incident Mild Cognitive Impairment or Alzheimer's Disease**, *NeuroImage Clinical*, in press, Feb. 2015.
661. Gabriëlla A. M. Blokland<sup>a,b,c,\*</sup>, Angus K. Wallace<sup>a</sup>, Narelle K. Hansell<sup>a</sup>, **Paul M. Thompson<sup>d</sup>**, Ian B. Hickie<sup>c</sup>, Grant W. Montgomery<sup>f</sup>, Nicholas G. Martin<sup>g</sup>, Katie L. McMahon<sup>b</sup>, Greig I. de Zubicaray<sup>c</sup>, Margaret J. Wright (2015). **Genome-wide association study of working memory brain activation**, Special Issue of the "International Journal of Psychophysiology", submitted, Feb. 2015.

662. Liana G. Apostolova, Kristy Hwang, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson** (2015). Brain amyloidosis ascertainment from cognitive, imaging and peripheral blood protein measures, *Neurology*, in press, 2015.
663. Xue Hua<sup>1</sup>, Christopher R. K. Ching<sup>1,2</sup>, Adam Mezher<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Priya Bhatt<sup>1</sup>, Alex D. Leow<sup>3,4</sup>, Clifford R. Jack Jr<sup>5</sup>, Matt Bernstein<sup>5</sup>, Michael W. Weiner<sup>6,7,8</sup>, Paul M. Thompson<sup>1,9</sup> and the Alzheimer's Disease Neuroimaging Initiative (2015). MRI-based brain atrophy rates in ADNI Phase 2: Acceleration and Enrichment Considerations for Clinical Trials, submitted to *Neurobiology of Aging*, March 5, 2015.
664. Clifford R. Jack, Jr.,<sup>1</sup> Josephine Barnes,<sup>2a</sup> Matt A. Bernstein,<sup>1</sup> Bret J. Borowski,<sup>1</sup> James Brewer,<sup>3a</sup> Shona Clegg,<sup>2a</sup> Anders M. Dale,<sup>3a</sup> Owen Carmichael,<sup>4a</sup> Christopher Ching,<sup>5</sup> Charles DeCarli,<sup>4a,b</sup> Rahul S. Desikan,<sup>3b</sup> Christine Fennema-Notestine,<sup>3b,c</sup> Anders M. Fjell,<sup>6</sup> Evan Fletcher,<sup>4a,b</sup> Nick C. Fox,<sup>2a</sup> Jeff Gunter,<sup>1</sup> Boris A. Gutman,<sup>5</sup> Dominic Holland,<sup>3a</sup> Xue Hua,<sup>5</sup> Philip Insel,<sup>7</sup> Kejal Kantarci,<sup>1</sup> Ron J. Killiany,<sup>8</sup> Gunnar Krueger,<sup>9</sup> Kelvin K. Leung,<sup>2b</sup> Scott Mackin,<sup>7,10a</sup> Pauline Maillard,<sup>4a,b</sup> Ian Molone,<sup>2a</sup> Niklas Mattsson,<sup>11</sup> Linda McEvoy,<sup>3b</sup> Marc Modat,<sup>2a,b</sup> Susanne Mueller,<sup>7,10b</sup> Rachel Nosheny,<sup>7,10b</sup> Sebastien Ourselin,<sup>2a,b</sup> Norbert Schuff,<sup>12</sup> Matthew L. Senjem,<sup>1</sup> Alix Simonson,<sup>7</sup> Paul M. Thompson,<sup>5</sup> Dan Rettmann,<sup>13</sup> Prashanthi Vemuri,<sup>1</sup> Kristine Walhovd,<sup>6</sup> Yansong Zhao,<sup>14</sup> Samantha Zuk,<sup>1</sup> Michael Weiner (2015). **Magnetic Resonance Imaging in ADNI, Alzheimer's & Dementia**, 2015.
665. Peter Kochunov<sup>a, 1</sup>, Neda Jahanshad<sup>b, 1</sup>, Daniel Marcus<sup>c</sup>, Anderson Winkler<sup>d</sup>, Emma Sprooten<sup>e</sup>, Thomas E. Nichols<sup>f</sup>, Susan N. Wright<sup>a</sup>, L. Elliot Hong<sup>a</sup>, Binish Patel<sup>a</sup>, Timothy Behrens<sup>d</sup>, Saad Jbabdi<sup>d</sup>, Jesper Andersson<sup>d</sup>, Christophe Lenglet<sup>g</sup>, Essa Yacoub<sup>g</sup>, Steen Moeller<sup>g</sup>, Eddie Auerbach<sup>g</sup>, Kamil Ugurbil<sup>g</sup>, Stamatios N. Sotiropoulos<sup>d</sup>, Rachel M. Brouwer<sup>h</sup>, Bennett Landman<sup>i</sup>, Hervé Lemaitre<sup>j</sup>, Anouk den Braber<sup>k</sup>, Marcel P. Zwiers<sup>l</sup>, Stuart Ritchie<sup>m</sup>, Kimm van Hulzen<sup>l</sup>, Laura Almasy<sup>n</sup>, Joanne Curran<sup>n</sup>, Greig I. deZubicaray<sup>o</sup>, Joanne Curran<sup>n</sup>, Greig I. deZubicaray<sup>o</sup>, Ravi Duggirala<sup>n</sup>, Peter Fox<sup>p</sup>, Nicholas G. Martin<sup>q</sup>, Katie L. McMahon<sup>o</sup>, Braxton Mitchell<sup>r</sup>, Rene L. Olvera<sup>p</sup>, Charles Peterson<sup>n</sup>, John Starr<sup>m</sup>, Jessika Sussmann<sup>m</sup>, Joanna Wardlaw<sup>m</sup>, Margie Wright<sup>q</sup>, Dorret I. Boomsma<sup>k</sup>, Rene Kahn<sup>h</sup>, Eco J.C. de Geus<sup>k</sup>, Douglas E. Williamson<sup>p</sup>, Ahmad Hariri<sup>s</sup>, Dennis van t Ent<sup>k</sup>, Mark E. Bastin<sup>m</sup>, Andrew McIntosh<sup>m</sup>, Ian J. Deary<sup>m</sup>, Hilleke E. Hulshoff pol<sup>h</sup>, John Blangero<sup>n</sup>, **Paul M. Thompson**<sup>b</sup>, David C. Glahn<sup>e, 2</sup>, David C. Van Essen (2015). Heritability of Fractional Anisotropy in Human White Matter: A Comparison of Human Connectome Project and ENIGMA-DTI Data, *NeuroImage*, Available online 4 March 2015.
666. L. Zhan, Y. Liu, Y. Wang<sup>2</sup>, N. Jahanshad<sup>1</sup>, J. Ye<sup>3, 4</sup>, **P.M. Thompson**<sup>1</sup> (2015). Boosting Brain Connectome Classification Accuracy in Alzheimer's disease using Higher-Order Singular Value Decomposition, submitted to *Recent Advances and Challenges on Big Data Analysis in Neuroimaging*: April 15, 2015.
667. Lupton MK, Strike L, Hansell NK, Wen W, Mather KA, Armstrong NJ, Thalamuthu A, McMahon KL, de Zubicaray GI, Assareh AA, Simmons A, Proitsi P, Powell JF, Montgomery GW, Hibar DP, Westman E, Tsolaki M, Kloszewska I, Soininen H, Mecocci P, Velas B, Lovestone S; Alzheimer's Disease Neuroimaging Initiative, Brodaty H, Ames D, Trollor JN, Martin NG, Thompson PM, Sachdev PS, Wright MJ for the Alzheimer's Disease Neuroimaging Initiative<sup>†</sup>. (2016). **The effect of increased genetic risk for Alzheimer's disease on hippocampal and amygdala volume**, *Neurobiol Aging*. 2016 Apr;40:68-77. doi: 10.1016/j.neurobiolaging.2015.12.023. Epub 2016 Jan 11.
668. Christina Boyle, Cyrus A. Raji, Kirk I. Erickson, Oscar L. Lopez, James T. Becker, H. Michael Gach, W. T. Longstreth, Mikhail Popov, Lewis Kuller, Owen T. Carmichael, Paul M. Thompson (2015). Estrogen and Brain Structure in a Multi-Center Cohort of Post-Menopausal Women, to be submitted, May 2015.

669. Kenia Martínez<sup>1,2</sup>, Anand A. Joshi<sup>3</sup>, Sarah K. Madsen<sup>4</sup>, Shantanu Joshi<sup>5</sup>, Francisco J. Román<sup>1</sup>, Julio Villalón-Reina<sup>3</sup>, Miguel Burgaleta<sup>6</sup>, Sherif Karama<sup>7</sup>, Joost Janssen<sup>2,8,9</sup>, **Paul M. Thompson**<sup>3</sup>, Roberto Colom (2015). Reproducibility of Brain-Cognition Relationships Using Three Cortical Surface-Based Protocols: An exhaustive analysis based on cortical thickness, *Human Brain Mapping*, Aug;36(8):3227-45. doi: 10.1002/hbm.22843. Epub 2015 May 28.
670. Benjamin Sinclair<sup>a,b,c</sup>, Narelle K. Hansell<sup>c</sup>, Gabriëlla A.M. Blokland<sup>c</sup>, Nicholas G. Martin<sup>c</sup>, Paul M. Thompson<sup>d</sup>, Michael Breakspear<sup>c</sup>, Greig I. de Zubicaray<sup>b</sup>, Margaret J. Wright<sup>c</sup>, Katie L. McMahon (2015). Heritability of Fronto-Parietal Effective Connectivity in Working Memory, under revision for *Human Brain Mapping*, May 4 2015.
671. Saykin AJ, Shen Li, Xiaohui Yao, Kim S, Nho K, Risacher SL, Ramanan VK, Foroud TM, Faber KM, Sarwar N, Munsie LM, Hu X, Soares HD, Potkin SG, Thompson PM, Kauwe JS, Kaddurah-Daouk R, Green RC, Toga AW, Weiner MW, for the Alzheimer's Disease Neuroimaging Initiative. Genetic Studies of Quantitative MCI and AD Phenotypes in ADNI: Progress, Opportunities, and Plans. *Alzheimer's & Dementia*, in press.
672. Peter Kochunov<sup>#,1</sup>, Mao Fu<sup>#2</sup>, Katie Nugent<sup>1</sup>, Susan N. Wright<sup>1</sup>, Xiaoming Du<sup>1</sup>, Florian Muellerklein<sup>1</sup>, Mary Morressey<sup>2</sup>, George Eskandar<sup>1</sup>, Neda Jahanshad<sup>4</sup>, **Paul M. Thompson**<sup>4</sup>, B. Patel<sup>1</sup>, Teodor T. Postolache<sup>5</sup>, Kevin A. Strauss<sup>3</sup>, Alan Schuldiner<sup>2</sup>, Braxton Mitchell<sup>2</sup>, L. Elliot Hong (2015). Genetics of Complex White Matter Diffusion Traits assessed in a Population Isolate, submitted, May 2015.
673. Baptiste Couvy-Duchesne<sup>1,2,3,\*</sup>, Jane L. Ebejer<sup>4</sup>, Nathan A. Gillespie<sup>4</sup>, David L. Duffy<sup>1</sup>, Ian B. Hickie<sup>5</sup>, **Paul M. Thompson**<sup>6</sup>, Nicholas G. Martin<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Sarah E. Medland<sup>1</sup>, Margaret J. Wright (2015). Genetic association of head motion during resting-state fMRI with Inattention and Hyperactivity scores, to be submitted to *PLOS ONE*, May 2015.
674. Emily L. Dennis Ph.D.<sup>1‡</sup>, Monica U. Ellis M.A.<sup>2,9‡</sup>, Sarah D. Marion<sup>9</sup>, Yan Jin Ph.D.<sup>1</sup>, Claudia Kernan Ph.D.<sup>2</sup>, Talin Babikian Ph.D., A.B.P.P.<sup>2</sup>, Richard Mink M.D., M.A.C.M.<sup>3</sup>, Christopher Babbitt M.D.<sup>4</sup>, Jeffrey Johnson M.D.<sup>5</sup>, Christopher C. Giza M.D.<sup>6</sup>, **Paul M. Thompson**, Robert Asarnow (2015). Callosal Function in Traumatic Brain Injury Linked to Disrupted White Matter Integrity, *Journal of Neuroscience*, June 2015.
675. Riedel B, Thompson PM, Brinton R (2016). Age, APOE and sex: Triad of risk of Alzheimer's disease, invited review, *J Steroid Biochem Mol Biol*. 2016 Jun;160:134-47. doi: 10.1016/j.jsbmb.2016.03.012. Epub 2016 Mar 8.
676. Meredith N. Braskie<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Kristian Eschenburg<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Lachlan Strike<sup>2</sup>, Grant W. Montgomery<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Paul M. Thompson (2015). Alzheimer's disease risk variant in the *CLU* gene and resting state fMRI activity in young adults, *J. Neuroscience*, under revision, May 2015.
677. Naohiro Okada<sup>1</sup>, Masaki Fukunaga<sup>2</sup>, Fumio Yamashita<sup>3</sup>, Daisuke Koshiyama<sup>1</sup>, Hidenaga Yamamori<sup>4</sup>, Kazutaka Ohi<sup>4</sup>, Yuka Yasuda<sup>4</sup>, Michiko Fujimoto<sup>4</sup>, Yoshiyuki Watanabe<sup>5</sup>, Noriaki Yahata<sup>1</sup>, Kiyotaka Nemoto<sup>6</sup>, Derrek P. Hibar<sup>7</sup>, Theo G. M. van Erp<sup>8</sup>, Haruo Fujino<sup>9</sup>, Masanori Isobe<sup>10</sup>, Shuichi Isomura<sup>11</sup>, Tatsunobu Natsubori<sup>1</sup>, Hisashi Narita<sup>12</sup>, Naoki Hashimoto<sup>12</sup>, Jun Miyata<sup>10</sup>, Shinsuke Koike<sup>1,13</sup>, Tsutomu Takahashi<sup>14</sup>, Hidenori Yamasue<sup>1</sup>, Koji Matsuo<sup>15</sup>, Toshiaki Onitsuka<sup>11</sup>, Tetsuya Iidaka<sup>16</sup>, Yasuhiro Kawasaki<sup>17</sup>, Reiji Yoshimura<sup>18</sup>, Yoshifumi Watanabe<sup>15</sup>, Michio Suzuki<sup>14</sup>, Jessica A. Turner<sup>19</sup>, Masatoshi Takeda<sup>4</sup>, **Paul M. Thompson**<sup>7</sup>, Norio Ozaki<sup>16</sup>, Kiyoto Kasai<sup>1</sup>, Ryota Hashimoto<sup>4,20</sup>; COCORO (2015). Abnormal asymmetries in subcortical brain volume in schizophrenia, submitted to *Molecular Psychiatry*, July 2015.

678. Pamela K. Douglas, Boris A. Gutman<sup>2</sup>, Ariana Anderson, Katherine Lawrence, Paul M. Thompson<sup>2</sup>, James McGough & Susan Y. Bookheimer (2015). Structural Brain Asymmetry in Adolescents with ADHD, **to be submitted, July 2015.**
679. Lachlan T. Strike<sup>1,2,3\*</sup>, Narelle K. Hansell<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Michelle Luciano<sup>4</sup>, Timothy C. Bates<sup>4</sup>, Nicholas G. Martin<sup>5</sup>, **Paul M. Thompson<sup>6</sup>**, Margaret J. Wright<sup>1,2</sup>, Greig I. de Zubicaray (2015). Genetic and Environmental Covariation between Cortical Brain Structure (Thickness, Surface Area) and Written Language Ability, submitted to *Brain and Language (special issue on genetics)*, **July 17 2015.**
680. Sacchet M, Foland-Ross L, Gilbert B, Prasad G, **Thompson PM**, Gotlib I (2015). Cortical Thickness Predicts the First Onset of Major Depression in Adolescence, *International Journal of Developmental Neuroscience*, in press, July 2015.
681. Mendez MF, Joshi A, Daianu M, Jimenez E, **Thompson P** (2015). **White Matter Changes Associated with Resting Sympathetic Tone in Frontotemporal Dementia vs. Alzheimer's Disease**, PLoS One. 2015 Nov 25;10(11):e0142445. doi: 10.1371/journal.pone.0142445.
682. Rentería ME, Lianne Schmaal<sup>2</sup>, Derrek P. Hibar<sup>3</sup>, Baptiste Couvy-Duchesne<sup>1,4,5</sup>, Lachlan T. Strike<sup>1</sup>, Natalie T. Mills<sup>1,6</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>5</sup>, Sarah E. Medland<sup>1</sup>, Nathan A. Gillespie<sup>7</sup>, Jim Lagopoulos<sup>8</sup>, Sean N. Hatton<sup>8</sup>, Dick J. Veltman<sup>1</sup>, Theo G.M. van Erp<sup>9</sup>, Katharina Wittfeld<sup>10</sup>, Hans J. Grabe<sup>10,11,12</sup>, Andrea Block<sup>11</sup>, Katrin Hegenscheid<sup>13</sup>, Henry Völzke<sup>14</sup>, Laura S. van Velzen<sup>2</sup>, Ilya M. Veer<sup>15</sup>, Henrik Walter<sup>15</sup>, Beata R. Godlewska<sup>16</sup>, Philip J. Cowen<sup>16</sup>, Felix H. Fischer<sup>17,18</sup>, Matthias Rose<sup>17,19</sup>, Brenda W.J.H. Penninx<sup>2</sup>, Neda Jahanshad<sup>3</sup>, Paul M. Thompson<sup>3</sup>, Margaret J. Wright<sup>1</sup>, Nicholas G. Martin<sup>1</sup>, Helen Christensen<sup>20</sup> and Ian B. Hickie<sup>8</sup>, <sup>1</sup> for the ENIGMA-Major Depressive Disorder Working Group (2015). **Subcortical Brain Structure and Suicidal Behaviour in Major Depressive Disorder: A Meta-Analysis from the ENIGMA-MDD Working Group (2015). Submitted to Translational Psychiatry, July 28 2015.**
683. Nathan A. Gillespie PhD<sup>1,2</sup>, Michael C. Neale PhD<sup>1</sup>, Timothy C. Bates PhD<sup>3</sup>, Lisa T. Eyler PhD<sup>4,5</sup>, Christine Fennema-Notestine PhD<sup>5</sup>, Jasmin Vassileva PhD<sup>6</sup>, Michael J. Lyons PhD<sup>7</sup>, Elizabeth C. Prom-Wormley MPH PhD<sup>8</sup>, Ian B. Hickie MD<sup>9</sup>, John J. McGrath MD PhD<sup>10</sup>, Lachlan T. Strike<sup>2,11,12</sup>, Miguel E. Rentería<sup>2</sup>, Nicholas G. Martin PhD<sup>2</sup>, Matthew S. Panizzon PhD<sup>5</sup>, Carol E. Franz PhD<sup>5</sup>, William S. Kremen PhD<sup>5,13\*</sup>, Greig de Zubicaray<sup>11,14</sup>, Paul M. Thompson, Margaret J. Wright (2015). **Testing associations between cannabis use and subcortical volumes in two large population-based samples: Importance of accounting for co-occurring nicotine and multi-substance use. Submitted to JAMA Psychiatry, August 2015.**
684. N. G. Harris<sup>1</sup>, D.R. Verley<sup>1</sup>, B.A. Gutman<sup>2</sup>, P.M. Thompson<sup>3</sup>, H.J. Yeh<sup>4</sup>, J.A. Brown (2015). **Disconnection and hyper-connectivity underlie reorganization after experimental TBI: a rodent functional connectomic analysis. Submitted to NeuroImage, August 2015.**
685. Adams HH, Hibar DP, Chouraki V, Stein JL, Nyquist PA, Rentería ME, Trompet S, Arias-Vasquez A, Seshadri S, Desrivières S, Beecham AH, Jahanshad N, Wittfeld K, Van der Lee SJ, Abramovic L, Alhusaini S, Amin N, Andersson M, Arfanakis K, Aribisala BS, Armstrong NJ, Athanasiu L, Axelsson T, Beiser A, Bernard M, Bis JC, Blanken LM, Blanton SH, Bohlken MM, Boks MP, Bralten J, Brickman AM, Carmichael O, Chakravarty MM, Chauhan G, Chen Q, Ching CR, Cuellar-Partida G, Braber AD, Doan NT, Ehrlich S, Filippi I, Ge T, Giddaluru S, Goldman AL, Gottesman RF, Greven CU, Grimm O, Griswold ME, Guadalupe T, Hass J, Haukvik UK, Hilal S, Hofer E, Hoehn D, Holmes AJ, Hoogman M, Janowitz D, Jia T, Kasperaviciute D, Kim S, Klein M, Kraemer B, Lee PH, Liao J, Liewald DC, Lopez LM, Luciano M, Macare C, Marquand A, Matarin M, Mather KA, Mattheisen M, Mazoyer B, McKay DR, McWhirter R, Milaneschi Y, Mirza-Schreiber N, Muetzel RL, Maniega SM, Nho K, Nugent AC, Loohuis LM, Oosterlaan J, Papmeyer M, Pappa I, Pirpamer L, Pudas S, Pütz B, Rajan KB, Ramasamy A, Richards JS, Risacher

SL, Roiz-Santiañez R, Rommelse N, Rose EJ, Royle NA, Rundek T, Sämann PG, Satizabal CL, Schmaal L, Schork AJ, Shen L, Shin J, Shumskaya E, Smith AV, Sprooten E, Strike LT, Teumer A, Thomson R, Tordesillas-Gutierrez D, Toro R, Trabzuni D, Vaidya D, Van der Grond J, Van der Meer D, Van Donkelaar MM, Van Eijk KR, Van Erp TG, Van Rooij D, Walton E, Westlye LT, Whelan CD, Windham BG, Winkler AM, Woldehawariat G, Wolf C, Wolfers T, Xu B, Yanek LR, Yang J, Zijdenbos A, Zwiens MP, Agartz I, Aggarwal NT, Almasy L, Ames D, Amouyel P, Andreassen OA, Arepalli S, Assareh AA, Barral S, Bastin ME, Becker DM, Becker JT, Bennett DA, Blangero J, van Bokhoven H, Boomsma DI, Brodaty H, Brouwer RM, Brunner HG, Buckner RL, Buitelaar JK, Bulayeva KB, Cahn W, Calhoun VD, Cannon DM, Cavalleri GL, Chen C, Cheng CY, Cichon S, Cookson MR, Corvin A, Crespo-Facorro B, Curran JE, Czisch M, Dale AM, Davies GE, De Geus EJ, De Jager PL, de Zubicaray GI, Delanty N, Depondt C, DeStefano AL, Dillman A, Djurovic S, Donohoe G, Drevets WC, Duggirala R, Dyer TD, Erk S, Espeseth T, Evans DA, Fedko IO, Fernández G, Ferrucci L, Fisher SE, Fleischman DA, Ford I, Foroud TM, Fox PT, Francks C, Fukunaga M, Gibbs JR, Glahn DC, Gollub RL, Göring HH, Grabe HJ, Green RC, Gruber O, Gudnason V, Guelfi S, Hansell NK, Hardy J, Hartman CA, Hashimoto R, Hegenscheid K, Heinz A, Le Hellard S, Hernandez DG, Heslenfeld DJ, Ho BC, Hoekstra PJ, Hoffmann W, Hofman A, Holsboer F, Homuth G, Hosten N, Hottenga JJ, Pol HE, Ikeda M, Ikram MK, Jr CR, Jenkinson M, Johnson R, Jönsson EG, Jukema JW, Kahn RS, Kanai R, Kloszewska I, Knopman DS, Kochunov P, Kwok JB, Lawrie SM, Lemaître H, Liu X, Longo DL, Jr WT, Lopez OL, Lovestone S, Martinez O, Martinot JL, Mattay VS, McDonald C, McIntosh AM, McMahon KL, McMahon FJ, Mecocci P, Melle I, Meyer-Lindenberg A, Mohnke S, Montgomery GW, Morris DW, Mosley TH, Mühleisen TW, Müller-Myhsok B, Nalls MA, Nauck M, Nichols TE, Niessen WJ, Nöthen MM, Nyberg L, Ohi K, Olvera RL, Ophoff RA, Pandolfo M, Paus T, Pausova Z, Penninx BW, Pike GB, Potkin SG, Psaty BM, Repperman S, Rietschel M, Roffman JL, Romanczuk-Seiferth N, Rotter JI, Ryten M, Sacco RL, Sachdev PS, Saykin AJ, Schmidt R, Schofield PR, Sigurdsson S, Simmons A, Singleton A, Sisodiya SM, Smith C, Smoller JW, Soininen H, Srikanth V, Steen VM, Stott DJ, Sussmann JE, Thalamuthu A, Tiemeier H, Toga AW, Traynor BJ, Troncoso J, Turner JA, Tzourio C, Uitterlinden AG, Hernández MC, Van der Brug M, Van der Lugt A, Van der Wee NJ, Van Duijn CM, Van Haren NE, Van T Ent D, Van Tol MJ, Vardarajan BN, Veltman DJ, Vernooij MW, Völzke H, Walter H, Wardlaw JM, Wassink TH, Weale ME, Weinberger DR, Weiner MW, Wen W, Westman E, White T, Wong TY, Wright CB, Zielke HR, Zonderman AB, Deary IJ, DeCarli C, Schmidt H, Martin NG, De Craen AJ, Wright MJ, Launer LJ, Schumann G, Fornage M, Franke B, Dobbie S, Medland SE, Ikram MA, Thompson PM (2016). [Novel genetic loci underlying human intracranial volume identified through genome-wide association](#). *Nat Neurosci*. 2016 Oct 3. doi: 10.1038/nn.4398.

686. Hibar D, [hundreds of authors], CHARGE, ENIGMA, ..., **Thompson PM**, Ikram MA (2017). *Novel genetic loci associated with hippocampal volume*, *Nature Communications*, Jan. 18 2017. [Author list: Dr. Derrek Hibar, Mr. Hieab Adams, Dr. Neda Jahanshad, Dr. Ganesh Chauhan, Dr. Jason Stein, Dr. Edith Hofer, Dr. Miguel Renteria, Dr. Joshua Bis, Dr. Alejandro Arias-Vasquez, Dr. M Kamran Ikram, Dr. Sylvane Desrivieres, Dr. Meike Vernooij, Ms. Lucija Abramovic, Dr. Saud Alhusaini, Dr. Najaf Amin, Dr. Micael Andersson, Dr. Konstantinos Arfanakis, Dr. Benjamin Aribisala, Dr. Nicola Armstrong, Lavinia Athanasiu, Dr. Tomas Axelsson, Dr. Ashley Beecham, Dr. Alexa Beiser, Ms. Manon Bernard, Dr. Susan Blanton, Mr. Marc Bohlken, Dr. Marco Boks, Dr. Janita Bralten, Dr. Adam Brickman, Dr. Owen Carmichael, Dr. Mallar Chakravarty, Dr. Qiang Chen, Dr. Christopher Ching, Dr. Vincent Chouraki, Dr. Fabrice Crivello, Dr. Gabriel Cuellar-Partida, Dr. Anouk den Braber, Dr. Nhat Trung Doan, Dr. Stefan Ehrlich, Dr. Sudheer Giddaluru, Dr. Aaron Goldman, Dr. Rebecca Gottesman, Dr. Oliver Grimm, Dr. Michael Griswold, Dr. Tulio Guadalupe, Dr. Boris Gutman, Johanna Hass, Unn Haukvik, Dr. David Hoehn, Dr. Avram Holmes, Dr. Martine Hoogman, Dr. Deborah Janowitz, Dr. Tianye Jia, Dr. Kjetil Jørgensen, Dr. Nazanin Karbalai, Dr. Dalia Kasperaviciute, Dr. Sungeun Kim, Miss Marieke Klein, Mr. Bernd Kraemer, Dr. Phil Lee, Mr. David Liewald, Dr. Lorna Lopez, Dr. Michelle Luciano, Ms. Christine Macare, Dr. Andre Marquand, Dr. Mar Matarin, Dr. Karen Mather, Manuel Mattheisen, Dr. David McKay, Dr. Yuri Milaneschi, Dr. Susana Muñoz Maniega, Dr. Kwangsik Nho, Dr. Allison Nugent, Dr. Paul Nyquist, Dr. Loes Olde Loohuis, Dr. Jaap Oosterlaan, Dr. Martina Pampmeyer, Dr. Lukas Pirpamer, Dr. Benno Pütz, Dr. Adai Kalavan Ramasamy, Dr. Jennifer Richards, Dr. Shannon Risacher, Dr. Roberto Roiz-Santiañez, Dr. Nanda Rommelse, Dr. Stefan Ropele, Dr. Emma Rose, Miss Natalie Royle, Dr. Tatjana Rundek, Dr. Philipp Sämann, Dr. Claudia Satizabal, Dr. Lianne Schmaal, Mr. Andrew Schork, Dr. Li Shen, Dr. Jean Shin, Dr. Elena Shumskaya, Dr. Albert Smith, Dr. Emma Sprooten, Dr. Lachlan Strike, Dr. Alexander Teumer, Dr. Diana Tordesillas-Gutierrez, Mr. Roberto Toro, Dr. Daniah Trabzuni, Dr. Stella Trompet, Dr. Dhananjay Vaidya, Dr. Jeroen Van der Grond, Dr. Sven Van der Lee, Dr. Dennis Van der Meer, Dr. Marjolien Van Donkelaar, Dr. Kristel Van Eijk, Dr. Theo van Erp, Dr. Daan Van Rooij, Esther Walton, Dr. Lars Tjelta Westlye, Dr. Christopher Whelan, Dr. Beverly Windham, Dr. Anderson Winkler, Dr. Katharina Wittfeld, Dr. Girma Woldehawariat, Dr. Christiane Wolf, Dr. Thomas Wolfers, Dr. Lisa Yanek, Dr. Jingyun Yang, Dr. Alex Zijdenbos, Dr. Marcel Zwiens, Ms. Ingrid Agartz, Dr. Laura Almasy, Dr. David Ames, Philippe Amouyel, Prof. Ole Andreassen, Dr. Sampath Arepalli, Amelia Assareh, Dr. Sandra Barral, Dr. Mark Bastin, Dr. Diane Becker, Dr. James Becker, Dr. David Bennett, Dr. John Blangero, Dr. Hans Bokhoven, Dr. Dorret Boomsma, Prof. Henry Brodaty, Dr. Rachel Brouwer, Prof. Han Brunner, Dr. Randy Buckner, Dr. Aidan Buitelaar, Dr. Kazima Bulayeva, Mrs. Wiepke Cahn, Dr. Vince Calhoun, Dara Cannon, Dr. Gianpiero Cavalleri, Dr. Ching-Yu Cheng, Prof. Sven Cichon, Dr. Mark Cookson, Dr. Aiden Corvin, Benedicto Crespo-Facorro, Dr. Joanne Curran, Michael Czisch, Dr. Anders Dale, Dr. Gareth Davies, Dr. Anton De Craen, Dr. Philip De Jager, Prof. Eco de Geus, Dr. Greig De Zubicaray, Dr. Ian Deary, Dr. Stéphanie Dobbie, Dr. Charles DeCarli, Dr. Norman Delanty, Dr. Chantal Depondt, Dr. Anita DeStefano, Dr. Allissa Dillman, Dr. Gary Donohoe, Dr. Wayne Drevets, Dr. Srdjan Djurovic, Dr. Ravi Duggirala, Dr. Thomas Dyer, Dr. Christian Enzinger, Dr. Susanne Erk, Dr. Thomas Espeseth, Dr. Iryna Fedko, Guillén Fernández, Dr. Luigi Ferrucci, Prof. Simon Fisher, Dr. Debra Fleischman, Dr. Ian Ford, Dr. Myriam Fornage, Dr. Tatiana Foroud, Dr. Peter Fox, Dr. Clyde Francks, Masaki Fukunaga, J Gibbs, Dr. David Glahn, Dr. Randy Gollub, Dr. Harald Göring, Dr. Robert Green, Dr. Oliver Gruber, Dr. Vilundur Gudnason, Mr. Manuel Guelfi, Dr. Narelle Hansell, John Hardy, Dr. Catharina Hartman, Dr. Ryota Hashimoto, Dr. Katrin Hegenscheid, Dr. Andreas Heinz, Dr. Stephanie Hellard, Dr. Denia Hernandez, Dr. Dirk Heslenfeld, Dr. Beng-Choon Ho, Prof. Pieter Hoekstra, Dr. Wolfgang Hoffmann, Prof. Albert Hofman, Dr. Florian Holsboer, Dr. Georg Homuth, Dr. Norbert Hosten, Dr. Jouke Hottenga, Dr. Hilleke Hulshoff Pol, Dr. Masashi Ikeda, Dr. Clifford Jack, Dr. Mark Jenkinson, Dr. Robert Johnson, Erik Jonsson, Prof. J Wouter Jukema, Ryota Kanai, Dr. Iwona Kloszewska, Dr. Rene Kahn, David Knopman, Dr. Peter Kochunov, John Kwok, Dr. Stephen Lawrie, Hervé Lemaître, Dr. Xinmin Liu, Dr. Dan Longo, Dr. Oscar Lopez, Dr. Simon Lovestone, Dr. Oliver Martinez, Dr. Jean-Luc Martinot, Venkata Mattay, Prof. Colm McDonald, Prof. Andrew McIntosh, Dr. Francis McMahon, Dr. Katie McMahon, Prof. patrizia mecocci, Dr. Ingrid Melle, Prof. Andreas Meyer-Lindenberg, Mr. Sebastian Mohnke, Dr. Grant Montgomery, Dr. Derek Morris, Dr. Thomas Mosley, Dr. Thomas Mühleisen, Dr. Bertram Müller-Myhsok, Dr. Michael Nalls, Dr. Matthias Nauck, Dr. Thomas Nichols, Prof. Wiro Niessen, Prof. Markus Nöthen, Prof. Lars Nyberg, Dr. Kazutaka Ohi, Dr. Rene Olvera, Roel Ophoff, Dr. Massimo Pandolfo, Dr. Tomas Paus, Dr. Zdenka

Pausova , Prof. Brenda Penninx , Dr. G Bruce Pike , Prof. Steven Potkin , Dr. Bruce Psaty , Dr. Simone Reppermund , Prof. Marcella Rietschel , Dr. Joshua Roffman , Dr. Nina Romanczuk-Seiferth , Dr. Jerome Rotter , Dr. Mina Ryten , Dr. Ralph Sacco , Prof. Perinder Sachdev , Dr. Andrew Saykin , Dr. Reinhold Schmidt , Dr. Helena Schmidt , Dr. Peter Schofield , Dr. Sigurdur Sigursson , Dr. Andrew Simmons , Dr. Andrew Singleton , Prof. Sanjay Sisodiya , Dr. Colin Smith , Dr. Jordan Smoller , Prof. Hilkka Soininen , Dr. Vidar Steen , Dr. David Stott , Jess Sussmann , Dr. Anbupalam Thalamuthu , Dr. Arthur Toga , Dr. Bryan Traynor , Dr. Juan Troncoso , Dr. Magda Tsolaki , Dr. Christophe Tzourio , André Uitterlinden , Dr. Maria Valdés Hernández , Dr. Dennis van 't Ent , Dr. Marcel Van der Brug , Prof. Aad van der Lugt , Dr. Nic van der Wee , Dr. Neeltje van Haren , Dr. Marie-Jose Van Tol , Dr. Badri Vardarajan , Dr. Bruno Vellas , Dr. Dick Veltman , Dr. Henry Völzke , Henrik Walter , Prof. Joanna Wardlaw , Dr. Thomas Wassink , Mike Weale , Dr. Daniel Weinberger , Prof. Michael Weiner , Dr. Wei Wen , Dr. Eric Westman , Dr. Tonya White , Dr. Tien Wong , Dr. Clinton Wright , Dr. Ronald Zielke , Dr. Alan Zonderman , Prof. Nicholas Martin , Prof. Cornelia van Duijn , Dr. Margaret Wright , Dr. WT Longstreth Jr , Prof. Gunter Schumann , Dr. Hans Grabe , Prof. Barbara Franke , Dr. Lenore Launer , Dr. Sarah Medland , Dr. Sudha Seshadri , Dr. Paul Thompson , Dr. M. Arfan Ikram.]

687. Thompson PM, Andreassen OA, Arias-Vasquez A, Bearden CE, Boedhoe PS, Brouwer RM, Buckner RL, Buitelaar JK, Bulaeva KB, Cannon DM, Cohen RA, Conrod PJ, Dale AM, Deary IJ, Dennis EL, de Reus MA, Desrivieres S, Dima D, Donohoe G, Fisher SE, Fouche JP, Francks C, Frangou S, Franke B, Ganjgahi H, Garavan H, Glahn DC, Grabe HJ, Guadalupe T, Gutman BA, Hashimoto R, Hibar DP, Holland D, Hoogman M, Pol HE, Hosten N, **Jahanshad N**, Kelly S, Kochunov P, Kremen WS, Lee PH, Mackey S, Martin NG, Mazoyer B, McDonald C, Medland SE, Morey RA, Nichols TE, Paus T, Pausova Z, Schmaal L, Schumann G, Shen L, Sisodiya SM, Smit DJ, Smoller JW, Stein DJ, Stein JL, Toro R, Turner JA, van den Heuvel M, van den Heuvel OA, van Erp TG, van Rooij D, Veltman DJ, Walter H, Wang Y, Wardlaw JM, Whelan CD, Wright MJ, Ye J, Consortium E. ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. **Neuroimage**. 2015. doi: 10.1016/j.neuroimage.2015.11.057. PubMed PMID: 26658930.
- 688.\*Kinnunen KM<sup>1</sup>, \*Cash DM<sup>1,2</sup>, Benzinger TLS<sup>3</sup>, Ahsan RL<sup>1</sup>, Leung KK<sup>1</sup>, Frost C<sup>1</sup>, Cardoso MJ<sup>1,2</sup>, Modat MM<sup>1,2</sup>, Malone IB<sup>1</sup>, Morris JC<sup>3</sup>, Bateman RJ<sup>3</sup>, Marcus DS<sup>3</sup>, Goate A<sup>3</sup>, Salloway S<sup>4</sup>, Correia S<sup>4</sup>, Sperling RA<sup>5</sup>, Mayeux R<sup>6</sup>, Brickman AM<sup>6</sup>, Martins RN<sup>7</sup>, Saykin AJ<sup>8</sup>, Farlow MR<sup>8</sup>, Ghetti B<sup>8</sup>, Jack Jr CR<sup>9</sup>, Schofield PR<sup>10</sup>, McDade E<sup>11</sup>, Weiner MW<sup>12</sup>, Ringman JM<sup>13</sup>, **Thompson PM**<sup>14</sup>, Rowe CC<sup>15</sup>, Masters CL<sup>16</sup> Rossor MN<sup>1</sup>, Ourselin S<sup>1,2</sup>, Fox NC<sup>1</sup>, for the Dominantly Inherited Alzheimer Network (DIAN) (2015). Longitudinal rates of atrophy in autosomal dominantly inherited familial Alzheimer's disease: results from the DIAN cohort, submitted to **Lancet Neurology**, August 2015.
689. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Stephanie Njau<sup>2</sup>, Amber M. Leaver<sup>2</sup>, Megha Vasavada<sup>2</sup>, Roger P. Woods<sup>2,3</sup>, Boris A. Gutman<sup>1</sup>, Paul M. Thompson<sup>1</sup>, Randall Espinoza<sup>3</sup>, Katherine L. Narr (2015). **Effect of Electroconvulsive Therapy on Striatal Morphometry in Major Depressive Disorder, to be submitted, Sept. 2015.**
690. Madelaine Daianu<sup>1,2</sup>, Mario F. Mendez<sup>3</sup>, Vatche G. Baboyan<sup>4</sup>, Yan Jin<sup>4</sup>, Rebecca J. Melrose<sup>3</sup>, Elvira E. Jimenez<sup>3</sup>, Paul M. Thompson (2015). **A white matter pathway atlas for behavioral frontotemporal dementia and early-onset Alzheimer's disease**, submitted to *Brain Imaging and Behavior, under revision, Sept. 2015.*
691. Kazima Bulayeva<sup>1\*</sup>, Klaus-Peter Lesch<sup>2</sup>, Oleg Bulayev<sup>1</sup>, Stephen Glatt<sup>3</sup>, Jamilja Omarova<sup>1</sup>, Farida Gurgeno<sup>1</sup>, Christopher Walsh<sup>4</sup>, **Paul M. Thompson** (2015). Molecular aberrations in genomic regions linked with intellectual disability and schizophrenia, assessed in Dagestan genetic isolates, to be submitted, Sept. 2015.
692. Kochunov P, Thompson PM, Winkler A, Morrissey M, Fu M, Coyle TR, Du X, Muellerklein F, Savransky A, Gaudiot C, Sampath H, Eskandar G, **Jahanshad N**, Patel B, Rowland L, Nichols TE, O'Connell JR, Shuldiner AR, Mitchell BD, Hong LE. "The common genetic influence over processing speed and white matter microstructure: Evidence from the Old Order Amish and Human Connectome Projects." **Neuroimage**. 2016;125:189-97. doi: 10.1016/j.neuroimage.2015.10.050. PubMed PMID: 26499807; PMCID: PMC4691385.
693. Kochunov P, Fu M, Nugent K, Wright SN, Du X, Muellerklein F, Morrissey M, Eskandar G, Shukla DK, Jahanshad N, Thompson PM, Patel B, Postolache TT, Strauss KA, Shuldiner AR, Mitchell BD, Hong LE. Heritability of complex white matter diffusion traits assessed in a population isolate. **Hum Brain Mapp**. 2016;37(2):525-35. doi: 10.1002/hbm.23047. PubMed PMID: 26538488; PMCID: PMC4718876.
694. Wendelken LA, Jahanshad N, Rosen HJ, Busovaca E, Allen I, Coppola G, Adams C, Rankin KP, Milanini B, Clifford K, Wojta K, Nir TM, Gutman BA, **Thompson**



- PM, Valcour V** (2015). **ApoE ε4 is Associated with Cognition, Brain Integrity and Atrophy in HIV Over Age 60**, *J Acquir Immune Defic Syndr*. 2016 Dec 1;73(4):426-432.
695. **Daianu M, Mezher A, Mendez MF, Jahanshad N, Jimenez EE, Thompson PM.** (2015). [Disrupted rich club network in behavioral variant frontotemporal dementia and early-onset Alzheimer's disease.](#) *Hum Brain Mapp*. 2016 Mar;37(3):868-83. doi: 10.1002/hbm.23069. Epub 2015 Dec 17.
696. Kochunov P\*, Ganjgahi H\*, Winkler A, Kelly S, Dinesh Shukla, ..., Jahanshad N, **Thompson PM**, Hemalatha S, Patel B, Hong E, Nichols TE (2015). Meta- and mega-analysis on schizophrenia-related deficits and accelerated aging in white matter integrity across multiple scanners: a clinical and methods validation study, to be submitted to **NeuroImage**, Oct. 2015.
697. Andrew R. Carr | Pongsatorn Paholpak | Madelaine Daianu | Sylvia S. Fong | Michelle Mather | Elvira E. Jimenez | **Paul Thompson** | Mario F. Mendez (2015). An investigation of care-based vs. rule-based morality in frontotemporal dementia, Alzheimer's disease, and healthy controls, *Neuropsychologia*, **Volume 78**, November 2015, Pages 73–79.
698. Ashley Acheson<sup>1,2</sup>✉\*, S. Andrea Wijtenburg<sup>3\*</sup>, Laura M. Rowland<sup>3,4</sup>, Charles W. Mathias<sup>1</sup>, L. Elliot Hong<sup>3</sup>, Neda Jahanshad<sup>5</sup>, Binish Patel<sup>3</sup>, **Paul M. Thompson<sup>5</sup>**, Stephen A. McGuire<sup>6</sup>, Paul M. Sherman<sup>7</sup>, Donald M. Dougherty<sup>1</sup>, and Peter Kochunov (2016). Regional reproducibility of white matter microstructural measures for longitudinal studies of at-risk adolescent development using the ENIGMA-DTI protocol, to be submitted to *NeuroImage*, Nov. 6 2015.
699. **Guadalupe T,** Samuel R Mathias , Theo G.M. van Erp , Christopher D Whelan , Marcel P. Zwiers , Yoshinari Abe , Lucija Abramovic , Ingrid Agartz , Ole A Andreassen , Alejandro Arias-Vasquez , Benjamin Aribisala , Nicola J Armstrong , Volker Arolt , Eric Artiges , Rosa Ayasa-Arriola , Vatche G Baboyan , Tobias Banaschewski , Gareth J Barker , Mark E. Bastin , Bernhard Baune , John Blangero , Arun LW Bodke , Premika SW Boedhoe , Anushree Bose , Silvia Brem , Henry Brodaty , Uli Bromberg , Samantha Brooks , Christian Büchel , Jan Buitelaar , Vince D. Calhoun , Dara M Cannon , Anna Cattrell , Yuqui Cheng , Patricia J Conrod , Annette Conzelmann , Aiden P. Corvin , Benedicto Crespo-Facorro , Fabrice Crivello , Udo Dannlowski , Greig I. de Zubicaray , Sonja MC de Zwarte , Ian J Deary , Sylvane Desrivieres , Nhat Trung Doan , Gary Donohoe , Erlend Dørum , Stefan Ehrlich , Thomas Espeseth , Guillen Fernandez , Herta Flor , JeanPaul Fouche , Vincent Frouin , Masaki Fukunaga , Jurgen Gallinat , Hugh Garavan , Michael Gill , Anfrea Gonzales Suarez , Penny A Gowland , Hans J Grabe , Dominik Grotegerd , Oliver Gruber , Saskia Hagenaars , Ryota Hashimoto , Tobias U. Hauser , Andreas Heinz , Derrek P Hibar , Pieter J Hoekstra , Martine Hoogman , Fleur Howells , Hao Hu , Hilleke E. Hulshoff Pol , Chaim Huyser , Bernd Ittermann , Neda Jahanshad , Erik G Jönsson , Sarah Jurk , Rene S. Kahn , Sinead Kelly , Bernd Kraemer , Harald Kugel , Jun Soo Kwon , Herve Lemaitre , Klaus-Peter Lesch , Christine Locher , Michelle Luciano , Andre F Marquand , Nicholas G. Martin , Ignacio Martínez-Zalacain , Jean-Luc Martinot , David Mataix-Cols , Karen Mather , Colm McDonald , Katie L. McMahon , Sarah E Medland , Jose M Menchon , Derrek Morris , Omar Mothersill , Susana Muñoz Maniega , Benson Mwangi , Takashi Nakamae , Tomohiro Nakao , Janardhanan C Narayanaswamy , Frauke Nees , Jan Egil Nordvik , A. Marten H Onnink , Nils Opel , Roel A Ophoff , Marie Laure Paillere Martinot , Dimitri Papadopoulos , Paul Pauli , Tomáš Paus , Luise Poutska , Janardhan Reddy , Miguel E Renteria , Roberto Roiz-Santiañez , Annerine Roos , Natalie A. Royle , Perminder S Sachdev , Pascual Sanchez-Juan , Lianne Schmaal , Gunter Schumann , Elena Shumskaya , Michael N. Smolka , Jair C Soares , Carles Soriano-Mas , Dan J. Stein , Lachlan T Strike , Roberto Toro , Jessica A Turner , Nathalie Tzourio-Mazoyer , Anne Uhlmann , Maria Valdez Hernandez , Odile van den Heuvel , Dennis van der Meer , Neeltje E.M. van Haren , Dick J Veltman , Ganesan Venkatasubramanian , Nora Vetter , Daniella Vuletic , Susanne Walitza , Henrik Walter , Esther Walton , Zhen Wang , Joanna M Wardlaw , Wei Wen , Lars Tjelta Westlye , Katharina Wittfeld , Thomas Wolfers , Margaret J. Wright , Jian Xu , Xiufeng Xu , Jingjing Zhao , Barbara Franke , Paul Thompson , David C. Glahn , Bernard Mazoyer , Simon E Fisher , Clyde Francks **for the ENIGMA-Lateralization Working Group** (2015b). Human brain asymmetries in 15,847 people worldwide reveal effects of age and sex, submitted to ***PNAS***, Nov. 6 2015.
700. **Barbara Franke<sup>\*1,2,3</sup>, Jason Stein<sup>\*4,5</sup>, Stephan Ripke<sup>\*6,7,8</sup>, Verneri Anttila<sup>6,7</sup>, Derrek Hibar<sup>4</sup>, Kimm van Hulzen<sup>1,3</sup>, Alejandro Arias Vasquez<sup>1,2,3,9</sup>, Jordan Smoller<sup>7,10,15</sup>, Thomas E. Nichols<sup>11,12</sup>, Michael C. Neale<sup>13</sup>, Andrew McIntosh<sup>14</sup>, Phil Lee<sup>7,10,15</sup>, Francis McMahon<sup>16</sup>, Andreas Meyer-Lindenberg<sup>17</sup>, Manuel Mattheisen<sup>18,19,20</sup>, Ole Andreassen<sup>21,22</sup>, Oliver Gruber<sup>23</sup>, Perminder Sachdev<sup>24,25</sup>, Roberto Roiz-Santiañez<sup>26,27</sup>, Andrew Saykin<sup>28,29,30</sup>, Stefan Ehrlich<sup>31</sup>, Karen Mather<sup>24</sup>, Jessica Turner<sup>32,33</sup>, Emanuel Schwarz<sup>17</sup>, Anbupalam Thalamuthu<sup>24</sup>, Yin Yao<sup>16</sup>, Nicholas G. Martin<sup>34</sup>, Margaret J. Wright<sup>34,35</sup>, Schizophrenia Working Group of the Psychiatric Genomics Consortium, ENIGMA Consortium, Michael O'Donovan<sup>#36,37</sup>, Paul Thompson<sup>#4</sup>, Benjamin Neale<sup>#6,7,38,39</sup>, Sarah Medland<sup>#34</sup>, Patrick F Sullivan** (2015).

**Is there overlap between common genetic influences on schizophrenia and subcortical brain volumes? *Nature Neuroscience*, in press, Nov. 6 2015.**

701. Phil H. Lee<sup>1,3</sup>, Justin Baker<sup>3,4</sup>, Avram Holmes<sup>5,6</sup>, Tian Ge<sup>1-3,5</sup>, Jae-Yoon Jung<sup>7</sup>, Yanela Cruz<sup>1,8</sup>, [QTIM Pls –Greig I. de Zubicaray<sup>a</sup>, Katie L. McMahon<sup>b</sup>, Nicholas G. Martin<sup>c</sup>, Margaret J. Wright<sup>d</sup>], Neda Jahanshad<sup>e</sup>, Paul M. Thompson<sup>e</sup>, Dost Öngür, Joshua Roffman, Randy Buckner<sup>8</sup>, Jordan Smoller (2015). **Partitioning heritability analysis reveals a shared genetic basis of brain anatomy and schizophrenia, to be submitted, Nov. 2015.**
702. Daianu M, Jacobs R, Town T, **Thompson PM** (2015). High-field Multi-shell Hybrid Diffusion Imaging (HYDI) in TgF344-AD Transgenic Alzheimer Rats, *PLoS One*. 2015 Dec 18;10(12):e0145205. doi: 10.1371/journal.pone.0145205.
703. Kochunov P<sup>\*1</sup>, Ganjgahi Habib<sup>\*2</sup>, Winkler Anderson<sup>3</sup>, Kelly Sinead<sup>4</sup>, Shukla Dinesh<sup>1</sup>, Xiaoming Du<sup>1</sup>, Jahanshad Neda<sup>4</sup>, Rowland Laura<sup>1</sup>, Sampath Hemalatha<sup>1</sup>, Patel Binish<sup>1</sup>, O'Donnell Patricio<sup>5</sup>, Xie Zhiyong<sup>5</sup>, Paciga Sara A<sup>6</sup>, Schubert Christian R.<sup>6,7</sup>, Chen Jian<sup>8</sup>, Zhang Guohao<sup>8</sup>, Thompson Paul M.<sup>4</sup>, Nichols Thomas E<sup>2.#</sup>, L. Elliot Hong<sup>1#</sup> (2015). Heterochronicity of White Matter Development and Aging and Susceptibility to Schizophrenia, submitted to **Biological Psychiatry**, Dec. 20 2015.
704. Sergey M. Plis, Anand D. Sarwate, Dylan Wood, Christopher Dieringer, Drew Landis, Cory Reed, Jessica A. Turner, Jody M. Shoemaker, Kim W. Carter, **Paul M. Thompson**, Vince D. Calhoun (2016). COINSTAC: A privacy enabled model and prototype for leveraging and processing decentralized brain imaging data, submitted to **NeuroImage**, Dec. 11 2015.
705. Thomas Frodl<sup>\*1,2</sup>, Deborah Janowitz<sup>\*3</sup>, Lianne Schmaal<sup>5</sup>, Leonardo Tozzi<sup>2</sup>, Dan J. Stein<sup>14</sup>, Dick J. Veltman<sup>5</sup>, Katharina Wittfeld<sup>4</sup>, Theo G.M. van Erp<sup>6</sup>, Neda Jahanshad<sup>7</sup>, Andrea Block<sup>3</sup>, Katrin Hegenscheid<sup>9</sup>, Henry Völzke<sup>10</sup>, Jim Lagopoulos<sup>11</sup>, Sean N. Hatton<sup>11</sup>, Ian B. Hickie<sup>11</sup>, Eva Maria Frey<sup>12</sup>, Angela Carballedo<sup>1, 13</sup>, Samantha J. Brooks<sup>14</sup>, Daniella Vuletic<sup>14</sup>, Anne Uhlmann<sup>14</sup>, Ilya M. Veer<sup>15</sup>, Dominik Grotegerd<sup>17</sup>, Volker Arolt<sup>17</sup>, Harald Kugel<sup>18</sup>, and Bernhard T. Baune<sup>19</sup>, Henrik Walter<sup>15</sup>, Knut Schnell<sup>16</sup>, Brenda W.J.H. Penninx<sup>5</sup>, Paul M. Thompson<sup>7</sup>, Derrek P. Hibar<sup>7</sup>, Udo Dannlowski<sup>17</sup> and Hans J. Grabe<sup>3,4,8</sup> for the ENIGMA-Major Depressive Disorder Working Group<sup>19</sup> (2019). **Childhood adversity is a key factor impacting brain subcortical structures relevant to depression: ENIGMA-MDD mega-analysis**, *Psychological Medicine*, in press, April 9 2019.
706. Lianne Schmaal<sup>1</sup>, Dick J. Veltman<sup>1</sup>, ..., Paul M. Thompson<sup>2</sup>, and Derrek P. Hibar<sup>2</sup> for the ENIGMA-Major Depressive Disorder Working Group (2016). **Response to the letters of Dr. Fried & Dr. Kievit, and Dr. Malhi and colleagues, submitted to *Molecular Psychiatry*, Dec. 2015.**
707. LEI SHI, HANGHANG TONG, MADELAINE DAIANU, FENG TIAN, **PAUL M. THOMPSON**, and the ADNI (2016). Visual Analysis of Brain Networks using Sparse Regression Models, submitted to the *ACM TKDD Special Issue on Interactive Data Exploration and Analytics (IDEA)*, Dec. 5. 2015.
708. Yi Su, Tyler Blazey; Christopher Owen; Karl Friedrichsen; Nelly Joseph-Mathurin; Qing Wang; Russ Hornbeck; Beau Ances; Marcus Raichle; Abraham Snyder; Lisa Cash; Robert Koepp; William Klunk; Douglas Galasko; Adam Brickman; Eric McDade; John Ringman; Paul Thompson; Andrew Saykin; Bernardino Ghetti; Reisa Sperling; Keith Johnson; Stephen Salloway; Peter Schofield; Colin Masters; Victor Villemagne; Nick Fox; Stefan Forster; Kewei Chen; Reiman Eric; Chengjie Xiong; Daniel Marcus; Michael Weiner; John Morris; Randall Bateman; Tammie Benzinger **and the Dominantly Inherited Alzheimer Network (2016)**. Quantitative Amyloid Imaging in Autosomal Dominant Alzheimer's Disease: Results from the DIAN Study Group, **submitted, PLOS ONE, Dec. 29 2015.**

709. Martin Becker<sup>1</sup>, Tulio Guadalupe<sup>1</sup>, Barbara Franke<sup>2,3</sup>, Derrek P. Hibar<sup>4</sup>, Miguel E. Renteria, Jason L. Stein<sup>4,6</sup>, Paul M. Thompson<sup>4</sup>, Clyde Francks<sup>1,2</sup>, Sonja C. Vernes<sup>1,2\*</sup>, Simon E. Fisher<sup>1,2\*</sup> (2016). **Early developmental gene enhancers affect subcortical volumes in the adult human brain**, *Human Brain Mapping*, 2016 May;37(5):1788-800. doi: 10.1002/hbm.23136. Epub 2016 Feb 18.
710. Schmaal L et al., Mr. Derrek Hibar, Philipp Saemann, Prof. Geoffrey Hall , Prof. Bernhard Baune , Ms. Neda Jahanshad , Joshua Cheung , Dr. Theo van Erp , Dr. Daniel Bos , Dr. Mohammad Arfan Ikram , Dr. Meike Vernooij , Prof. Wiro Niessen , Dr. Henning Tiemeier , Dr. Albert Hofman , Mrs. Katharina Wittfeld , Prof. Hans Joergen Grabe , Dr. Deborah Janowitz , Dr. Robin Buelow , Dr. Maria Selonke , Prof. Henry Völzke , Mr. Dominik Grotegerd , Prof. Udo Dannlowski , Dr. Volker Arolt , Mr. Nils Opel , Prof. Walter Heindel , Dr. Harald Kugel , Dr. David Hoehn , Dr. Michael Czisch , Dr. Baptiste Couvy-Duchesne , Mr. Miguel Rentería , Mr. Lachlan Strike , Dr. Margaret Wright , Dr. Natalie Mills , Prof. Greig de Zubicaray , Dr. Katie McMahon , Sarah Medland , Nicholas Martin , Dr. Nathan Gillespie , Dr. Roberto Goya-Maldonado , Dr. Oliver Gruber , Mr. Bernd Krämer , Mr. Sean Hatton , Prof. Jim Lagopoulos , Prof. Ian Hickie , Prof. Thomas Frodl , Dr. Angela Carballedo , Dr. Eva-Maria Frey , Miss Laura van Velzen , Dr. Brenda W.J.H. Penninx , Dr. Marie-José Tol , Prof. Nic van der Wee , Dr. Christopher Davey , Prof. Ben Harrison , Dr. Benson Mwangi , Dr. Bo Cao , Dr. Jair Soares , Dr. Ilya Veer , Henrik Walter , Dr. Dieter Schoepf , Dr. Bartosz Zurowski , Dr. Carsten Konrad , Dr. Elizabeth Schramm , Prof. Claus Normann , Dr. Knut Schnell , Mr. Matthew Sacchet , Dr. Ian Gotlib , Glenda MacQueen , Dr. Beata Godlewska , Dr. Thomas Nickson , Prof. Andrew McIntosh , Ms. Martina Pappmeyer , Dr. Heather Whalley , Dr. Jeremy Hall , Dr. Jessica Sussmann , Dr. Meng Li , Prof. Martin Walter , Dr. Lyubomir Aftanas , Dr. Ivan Brack , Prof. Nikolay Bokhan , Dr. Paul Thompson , Dr. Dick Veltman , and the ENIGMA Major Depressive Disorder Working Group (2016). Cortical Abnormalities in Adults and Adolescents with Major Depression based on Brain Scans from 20 Cohorts Worldwide in the ENIGMA Major Depressive Disorder Working Group" (reference number: 2016MP000073), submitted to **Molecular Psychiatry, Jan 20 2016**.
711. Dima D, Efsthios Papachristou<sup>3</sup>, Sarah E. Medland<sup>4</sup>, Ingrid Agartz<sup>5,6</sup>, Kathryn Alpert<sup>7</sup>, Micael Andersson<sup>8</sup>, Nancy C. Andreasen<sup>9</sup>, Ole A. Andreassen<sup>5,10</sup>, Dorret I. Boomsma<sup>11</sup>, Alan Breier<sup>12</sup>, Henry Brodaty<sup>13</sup>, Rachel M. Brouwer<sup>14</sup>, Vince D. Calhoun<sup>15,16</sup>, Vincent P. Clark<sup>15</sup>, Benedicto Crespo-Facorro<sup>17,18</sup>, Fabrice Crivello<sup>19</sup>, Anders M Dale<sup>20</sup>, Eco J.C. de Geus<sup>11</sup>, Lieuwe de Haan<sup>21</sup>, Anouk den Braber<sup>11</sup>, Nhat T. Doan<sup>5,10</sup>, Erlend S. Dørum<sup>5,10</sup>, Stefan Ehrlich<sup>22,23</sup>, Susanne Erk<sup>24</sup>, Thomas Espeseth<sup>5</sup>, Thomas Frodl<sup>25,26</sup>, Oliver Grimm<sup>27</sup>, Oliver Gruber<sup>28</sup>, Raquel E. Gur<sup>29</sup>, Ruben C. Gur<sup>29</sup>, Sean N. Hatton<sup>30</sup>, Andreas Heinz<sup>24</sup>, Derrek P. Hibar<sup>31</sup>, Ian B. Hickie<sup>30</sup>, Beng-Choon Ho<sup>9</sup>, Hilleke E. Hulshoff Pol<sup>14</sup>, Rene S. Kahn<sup>14</sup>, Ryota Kanai<sup>32,33</sup>, Laura Koenders<sup>21</sup>, Bernd Kraemer<sup>28</sup>, Jim Lagopoulos<sup>30</sup>, Won Hee Lee<sup>2</sup>, Nicholas G. Martin<sup>4</sup>, Bernard M. Mazoyer<sup>19</sup>, Brenna C. McDonald<sup>12</sup>, Andrew McIntosh<sup>34</sup>, Andreas Meyer-Linderberg<sup>27</sup>, Thomas Nickson<sup>34</sup>, Jan E. Nordvik<sup>35</sup>, Victor Ortiz-García de la Foz<sup>17,18</sup>, Juan Pascual Sanchez<sup>17,18</sup>, Godfrey D. Pearlson<sup>36</sup>, Steven G. Potkin<sup>37</sup>, Daniel A. Rinker<sup>31</sup>, Roberto Roiz-Santiañez<sup>17,18</sup>, Perminder S. Sachdev<sup>13,38</sup>, Ted D. Satterthwaite<sup>29</sup>, Andrew J. Saykin<sup>12</sup>, Lianne Schmaal<sup>11</sup>, Knut Schnell<sup>27</sup>, Charles S. Schulz<sup>39</sup>, Andy Simmons<sup>1</sup>, Emma Sprooten<sup>1</sup>, Lachlan Strike<sup>4</sup>, Suzanne C. Swagerman<sup>11</sup>, Heike Tost<sup>27</sup>, Julian N. Trollor<sup>13</sup>, Andia H. Turner<sup>37</sup>, Nic JA van der Wee<sup>40</sup>, Neeltje EM van Haren<sup>14</sup>, Dennis van 't Ent<sup>11</sup>, Ilya M. Veer<sup>24</sup>, Dick J. Veltman<sup>11</sup>, Henrik Walter<sup>24</sup>, Esther Walton<sup>1,22</sup>,

- Lei Wang<sup>7</sup>, Thomas H. Wassink<sup>9</sup>, Wei Wen<sup>13,38</sup>, John D. West<sup>12</sup>, Lars T. Westlye<sup>5,10</sup>, Daniel H. Wolf<sup>29</sup>, Amanda Worker<sup>1</sup>, Avram J. Holmes<sup>23</sup>, Joshua L. Roffman<sup>23</sup>, Jordan W. Smoller<sup>23</sup>, Randy L. Buckner<sup>23</sup>, Jessica A. Turner<sup>41</sup>, Theo G.M. van Erp<sup>37</sup>, David C. Glahn<sup>36</sup>, Paul M. Thompson<sup>31</sup>, Sophia Frangou<sup>2,\*</sup> (2017). **Subcortical volumes across the lifespan: Normative data from 10,144 individuals aged 2-92 years, submitted to Human Brain Mapping, under revision, Feb. 2017.**
712. Boedhoe PS, Schmaal L, Abe Y, Ameis SH, Arnold PD, Batistuzzo MC, Benedetti F, Beucke JC, Bollettini I, Bose A, Brem S, Calvo A, Cheng Y, Cho KI, Dallaspezia S, Denys D, Fitzgerald KD, Fouche JP, Giménez M, Gruner P, Hanna GL, Hibar DP, Hoexter MQ, Hu H, Huyser C, Ikari K, Jahanshad N, Kathmann N, Kaufmann C, Koch K, Kwon JS, Lazaro L, Liu Y, Lochner C, Marsh R, Martínez-Zalacaín I, Mataix-Cols D, Menchón JM, Minuzzi L, Nakamae T, Nakao T, Narayanaswamy JC, Piras F, Piras F, Pittenger C, Reddy YC, Sato JR, Simpson HB, Soreni N, Soriano-Mas C, Spalletta G, Stevens MC, Szeszko PR, Tolin DF, Venkatasubramanian G, Walitza S, Wang Z, van Wingen GA, Xu J, Xu X, Yun JY, Zhao Q; **ENIGMA OCD Working Group.**, Thompson PM, Stein DJ, van den Heuvel OA (2017). [Distinct Subcortical Volume Alterations in Pediatric and Adult OCD: A Worldwide Meta- and Mega-Analysis.](#) **Am J Psychiatry.** 2017 Jan 1;174(1):60-69. doi: 10.1176/appi.ajp.2016.16020201. PMID: 27609241
713. Boedhoe PSW, Schmaal L, Mataix-Cols D, ENIGMA-OCD working group, Thompson PM, Stein D, van den Heuvel OA: **Association and Causation in Brain Imaging : The Case of OCD - Response to McKay et al.** Am. J. Psychiatry 2017; accepted.
714. Roussotte FF, Narr KL, Small GW, Thompson PM; Alzheimer's Disease Neuroimaging Initiative (2016). **The C677T variant in MTHFR modulates associations between blood-based and CSF biomarkers of neurodegeneration,** Neuroreport. 2016 Aug 17;27(12):948-51. doi: 10.1097/WNR.0000000000000636. PMID: 27380243.
715. Mackey S, Kan KJ, Charani B, Alia-Klein N, Batalla A, Brooks S, Cousijn J, Dagher A, de Ruiter M, Desrivieres S, Feldstein Ewing SW, Goldstein RZ, Goudriaan AE, Heitzeg MM, Hutchison K, Li CS, London ED, Lorenzetti V, Luijten M, Martin-Santos R, Morales AM, Paulus MP, Paus T, Pearlson G, Schluter R, Momenan R, Schmaal L, Schumann G, Sinha R, Sjoerds Z, Stein DJ, Stein EA, Solowij N, Tapert S, Uhlmann A, Veltman D, van Holst R, Walter H, Wright MJ, Yucel M, Yurgelun-Todd D, Hibar DP, Jahanshad N, **Thompson PM**, Glahn DC, Garavan H, Conrod P. "Genetic imaging consortium for addiction medicine: From neuroimaging to genes." **Prog Brain Res.** 2016;224:203-23. doi: 10.1016/bs.pbr.2015.07.026. PubMed PMID: 26822360.
716. Whelan CD, Hibar DP, van Velzen LS, Zannas AS, Carrillo-Roa T, McMahon K, Prasad G, Kelly S, Faskowitz J, de Zubicaray G, Iglesias JE, van Erp TG, Frodl T, Martin NG, Wright MJ, **Jahanshad N**, Schmaal L, Samann PG, Thompson PM, Alzheimer's Disease Neuroimaging I. Heritability and reliability of automatically segmented human hippocampal formation subregions. **Neuroimage.** 2015;128:125-37. doi: 10.1016/j.neuroimage.2015.12.039. PubMed PMID: 26747746.
717. Scott J, Meredith N Braskie, PhD, Duygu Tosun, PhD, Pauline Maillard, PhD, Paul M Thompson, PhD, Michael Weiner, MD, Charles DeCarli, MD and Owen T Carmichael, PhD, ADNI (2016). **Cerebral Amyloid is Associated with Greater White Matter Hyperintensity Accrual in Cognitively Normal Elderly, submitted, March 2016.**

718. Bolun Li<sup>a</sup>, Jie Shi<sup>a</sup>, Boris A. Gutman<sup>b</sup>, Leslie C. Baxter<sup>c</sup>, Paul M. Thompson<sup>b</sup>, Richard J. Caselli<sup>d</sup>, Yalin Wang<sup>a</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2016). INFLUENCE OF APOE GENOTYPE ON HIPPOCAMPAL ATROPHY OVER TIME – AN N=1925 SURFACE-BASED ADNI STUDY, PLOS ONE, accepted, March 2016.

719. Neda Jahanshad<sup>1</sup>, PhD, \*Habib Ganjgahi<sup>2</sup>, MS, Janita Bralten<sup>3</sup>, PhD, Anouk den Braber<sup>4</sup>, PhD, Joshua Faskowitz<sup>1</sup>, BS, Annchen R Knodt<sup>5</sup>, MS, Hervé Lemaitre<sup>6</sup>, PhD, Talia M Nir<sup>1</sup>, BS, Binish Patel<sup>7</sup>, BS, Stuart Ritchie<sup>8</sup>, PhD, Emma Sprooten<sup>9</sup>, PhD, Martine Hoogman<sup>3</sup>, PhD, Kimm van Hulzen<sup>3</sup>, PhD, Artemis Zavaliangos-Petropulu<sup>1</sup>, BS, Marcel P Zwiers<sup>10</sup>, PhD, Laura Almasy<sup>11</sup>, PhD, Mark E Bastin<sup>8</sup>, PhD, Matt A Bernstein<sup>12</sup>, PhD, John Blangero<sup>11</sup>, PhD, Joanne Curran<sup>11</sup>, PhD, Ian J Deary<sup>8</sup>, PhD, Greig I de Zubicaray<sup>13</sup>, PhD, Ravi Duggirala<sup>11</sup>, PhD, Simon E Fisher<sup>14</sup>, DPhil, Barbara Franke<sup>3</sup>, PhD, Peter Fox<sup>15</sup>, MD, David Goldman<sup>16</sup>, PhD, Asta K Haberg<sup>17</sup>, PhD, Ahmad Hariri<sup>5</sup>, PhD, L Elliot Hong<sup>7</sup>, MD, Matt Huentelman<sup>18</sup>, PhD, Nicholas G Martin<sup>19</sup>, PhD, Jean-Luc Martinot<sup>6</sup>, PhD, Andrew McIntosh<sup>8</sup>, PhD, Katie L McMahon<sup>20</sup>, PhD, Sarah E Medland<sup>19</sup>, PhD, Braxton D Mitchell<sup>21</sup>, PhD, Susana Muñoz Maniega<sup>8</sup>, PhD, Rene L Olvera<sup>15</sup>, PhD, Jaap Oosterlaan<sup>22</sup>, PhD, Charles Peterson<sup>23</sup>, PhD, Natalie Royle<sup>8</sup>, PhD, Andrew J Saykin<sup>24</sup>, PsyD, Gunter Schumann<sup>25</sup>, PhD, John Starr<sup>8</sup>, PhD, Elliot A Stein<sup>26</sup>, PhD, Jessika Sussmann<sup>8</sup>, PhD, Maria del C. Valdés Hernández<sup>8</sup>, PhD, Dennis van't Ent<sup>4</sup>, PhD, Joanna M Wardlaw<sup>8</sup>, MD, Michael W Weiner<sup>27</sup>, MD, Douglas E Williamson<sup>28</sup>, PhD, Anderson M Winkler<sup>29</sup>, MD, Margaret J Wright<sup>20</sup>, PhD, Yihong Yang<sup>26</sup>, PhD, Paul M Thompson<sup>1</sup>, PhD, David C Glahn<sup>30</sup>, PhD, #Thomas E Nichols<sup>2</sup>, PhD, #@Peter Kochunov<sup>7</sup>, PhD (2017). **Do Candidate Genes Affect the Brain's White Matter Microstructure? Large-Scale Evaluation of 6,165 Diffusion MRI Scans**, biorXiv, 2017.

720. Klaus Maier-Hein, Peter Neher, Jean-Christophe Houde, Marc-Alexandre Côté, Eleftherios Garyfallidis, Tim Holland-Letz, Bram Stieltjes, Maxime Descoteaux, Jidan Zhong, Maxime Chamberland, Fang-Cheng Yeh, Ying Chia Lin, Qing Ji, Wilburn Reddick, John Glass, David Qixiang Chen, Yuanjing Feng, Chenfeng Gao, We Wu, Jieyan Ma, He Renjie, Qiang Li, Carl-Fredrik Westin, Samuel Deslauriers-Gauthier, J. Omar González, Michael Paquette, Samuel St-Jean, Gabriel Girard, François Rheault, Jasmeen Sidhu, Chantal Tax, Fenghua Guo, Hamed Mesri, Szabolcs Dávid, Martijn Froeling, Anneriet Heemskerk, Alexander Leemans, Arnaud Boré, Basile Pinsard, Christophe Bedetti, Matthieu Desrosiers, Simona Brambati, Julien Doyon, Alessia Sarica, Roberta Vasta, Antonio Cerasa, Aido Quattrone, Jason Yeatman, Ali Khan, Wesley Hodges, Simon Alexander, Darcvi Romascano, Muhamed Barakovic, Anna Rasclosa, Oscar Esteban, Alia Lemkaddem, Jean-Philippe Thiran, H. Cetingul, Benjamin Odry, Boris Mailhe, Mariappan Nadar, Fabrizio Pizzagalli, Gautam Prasad, Julio Villalon-Reina, Justin Galvis, Francisco De Santiago Requejo, Pedro Luque-Laguna, Luis Lacerda, Rachel Barrett, Flavio Dell'Acqua, Laurent Petit, Emmanuel Caruyer, Alessandro Daducci, Tim Dyrby, Paul M. Thompson, Marco Catani, and Claus Hilgetag (2017). **Insights on tractography-based brain connectivity estimation from an international competition**, *Nat Commun.* 2017 Nov 7;8(1):1349. doi: 10.1038/s41467-017-01285-x.

721. Kaoru Nashiro, Ph.D.; Jaime Guevara-Aguirre, M.D.; Meredith N Braskie, Ph.D.; George W Hafzalla; Rico Velasco; Priya Balasubramian, Ph.D.; **Paul M Thompson**, Ph.D.; Mara Mather, Ph.D.; Marvin D Nelson, M.D.; Alexandra Guevara; Enrique Teran, M.D., V Longo (2016). Brain structure and function profile associated with younger adults in growth hormone receptor deficient humans, submitted to *Annals of Neurology*, May 8 2016.

722. Saud Alhusaini\*, Christopher D. Whelan\*, Sanjay M. Sisodiya+, Paul M. Thompson (2016). **Quantitative neuroimaging traits as endophenotypes for epilepsy**, submitted, *NeuroImage Clinical*, April 2016.

723. Esther Walton; Derrek Hibar; Theo van Erp; Steven Potkin; Roberto Roiz-Santiañez; Benedicto Crespo-Facorro; Paula Suarez-Pinilla; Neeltje Van Haren; Sonja de Zwarte; Rene Kahn;

- Wiepke Cahn; Nhat Trung Doan; Kjetil Jørgensen; Tiril Gurholt; Ingrid Agartz; Ole Andreassen; Lars Westlye; Ingrid Melle; Akiyah Berg; Lynn Morch-Johnsen; Ann Færden; Lena Flyckt; Helena Fatouros-Bergman; Karolinska Schizophrenia Project Consortium (KaSP); Erik Jönsson; Ryota Hashimoto; Hidenaga Yamamori; Masaki Fukunaga; Neda Jahanshad; Pietro De Rossi; Fabrizio Piras; Nerisa Banaj; Gianfranco Spalletta; Raquel Gur; Ruben Gur ; Daniel Wolf ; Theodore Satterthwaite; Lauren Beard; Iris Sommer; Sanne Koops; Oliver Gruber; Anja Richter; Bernd Krämer; Sinead Kelly; Gary Donohoe; Colm McDonald; Dara Cannon; Aiden Corvin; Michael Gill; Annabella Di Giorgio; Alessandro Bertolino; Stephen Lawrie; Thomas Nickson; Heather Whalley; Emma Neilson; Vince Calhoun; Paul Thompson; Jessica Turner; Stefan Ehrlich (2017). Positive symptoms associate with cortical thinning in the superior temporal gyrus via the ENIGMA-Schizophrenia consortium, *Acta Psychiatrica Scandinavica*, in press, Feb 10 2017.
724. Moyer D, Gutman BA, Prasad G, Ver Steeg G, **Thompson PM** (2017). Mixed Membership Stochastic Blockmodels for the Human Connectome, **Computer Vision and Image Understanding (CVIU)**, 2017.
725. Florence F. Roussotte<sup>1,3</sup>, Xue Hua<sup>3,4</sup>, Katherine L. Narr<sup>1</sup>, and Paul M. Thompson<sup>1,2,3,4,5</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2016). **The C677T variant in MTHFR modulates associations between brain integrity, cognitive functioning, and mood scores in old age**, *Molecular Psychiatry*, revised version submitted, May 2016.
726. Peter Kochunov<sup>1</sup>, Laura M. Rowland<sup>1</sup>, Els Fiereman<sup>2</sup>, Jelle Veraart<sup>2</sup>, Neda Jahanshad<sup>3</sup>, George Eskandar<sup>1</sup>, Xiaoming Du<sup>1</sup>, Florian Muellerklein<sup>1</sup>, Anya Savransky<sup>1</sup>, Dinesh Shulka<sup>1</sup>, Hemalatha Sampath<sup>1</sup>, **Paul M. Thompson**<sup>3</sup>, L. Elliot Hong (2016). Beyond tensor diffusion MRI uncovers processing speed deficits in Schizophrenia, to be submitted to **PNAS**, May 25 2016.
727. Jahanshad N, Thompson PM (2016). **Multimodal neuroimaging of male and female brain structure throughout the lifespan and around the world**, *Journal of Neuroscience Research*, Special Issue -- Larry Cahill, Special Guest Editor, submitted, May 31, 2016.
728. Daniel A. Rinker<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Ashley Beecham<sup>2</sup>, Jorge Oksenberg<sup>3</sup>, Jacob L. McCauley<sup>4</sup>, ENIGMA2, Paul M. Thompson (2016). **Genetic pleiotropy between determinants of multiple sclerosis risk and regional brain volumes**, submitted, June 2016.
729. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Boris A. Gutman<sup>1</sup>, **Paul M. Thompson** (2016). Machine Learning on High Dimensional Shape Data from Subcortical Brain Surfaces: A Comparison of Feature Selection and Classification Methods, **Pattern Recognition**, revised version submitted, June 2016.
730. David F Tate, Benjamin SC Wade; Carmen S Velez; Ann Marie Drennon; Jacob Bolzenius, Ph.D.; Boris A Gutman; **Paul M Thompson**; Jeffrey D Lewis; Elizabeth A Wilde; Erin D Bigler; Martha E Shenton; John Ritter; Gerald E York (2016). Volumetric and Shape Analyses of Subcortical Structures United States Service Members with Mild Traumatic Brain Injury, submitted to the *Journal of Neurology*, April 4 2016, under revision June 2016.
731. Kelly S, Jahanshad N, ..., Thompson P, Donohoe G (2017). White matter microstructural differences in 4,072 individuals with schizophrenia versus controls from 28 cohorts worldwide in the ENIGMA Schizophrenia DTI Working Group, *Molecular Psychiatry*, 2017.

732. Joshi, Shantanu H., Nathalie Vizueta, Lara Foland-Ross, Jennifer D. Townsend, Susan Y. Bookheimer, **Paul M. Thompson**, Katherine L. Narr, Lori L. Altshuler (2016). Relationships Between Altered fMRI Activation and Cortical Thickness in Euthymic Bipolar I Disorder, *Biological Psychiatry*, Published online: July 1 2016.
733. Hoogman M, Janita Bralten, PhD; Derrek Hibar, PhD; Maarten Mennes, PhD; Marcel Zwiers, PhD; Lizanne Schweren; Kimm Van Hulzen; Sarah Medland; Elena Shumskaya; Neda Jahanshad; Patrick de Zeeuw; Eszter Szekely; Gustavo Sudre; Thomas Wolfers; Marten Onnink; Janneke Dammers; Jeanette Mostert; Yolanda Vives-Gilabert; Gregor Kohls; Ellen Oberwelland; Jochen Seitz; Martin Schulte-Rüther; Sara Ambrosino di Bruttupilo; Alys Doyle; Marie Hovik; Margaretha Dramsdahl; Leanne Tamm; Theo van Erp; Anders Dale; Andrew Schork; Annette Conzelmann; Kathrin Zierhut; Ramona Baur; Hazel McCarty; Yuliya Yoncheva; Ana Cubillo; Kaylita Chantiluke; Mitul Metha; Yannis Paloyelis; Sarah Hohmann; Sarah Baumeister; Ivanei Bramati; Paulo Mattos; Fernanda Tovar-Moll; Pamela Douglas; Tobias Banaschewski; Daniel Brandeis; Jonna Kuntsi; Philip Asherson; Katya Rubia; Clare Kelly; Adriana Di Martino; Micheal Milham; Francisco Castellanos; Thomas Frodl; Mariam Zentis; Klaus-Peter Lesch; Andreas Reif; Paul Pauli; Terry Jernigan; Jan Haavik; Kerstin Plessen; Astri Lundervold; Kenneth Hugdahl; Larry Seidman; Joseph Biederman; Nanda Rommelse; Dirk Heslenfeld; Catharina Hartman; Pieter Hoekstra; Jaap Oosterlaan; Georg von Polier; Kerstin Konrad; Oscar Vilarroya; Josep-Antoni Ramos; Joan Carles Soliva; Sarah Durston; Jan Buitelaar; Stephen Faraone; Philip Shaw; **Paul Thompson**; Barbara Franke (2017). **Subcortical brain volume differences in participants with attention deficit hyperactivity disorder in children and adults: a cross-sectional mega-analysis**, *Lancet Psychiatry*, Feb. 15 2017; with Commentary. DOI: [http://dx.doi.org/10.1016/S2215-0366\(17\)30049-4](http://dx.doi.org/10.1016/S2215-0366(17)30049-4)
734. Julia A Scott, PhD<sup>a</sup>, Duygu Tosun, PhD<sup>b</sup>, Meredith N Braskie, PhD<sup>c</sup>, **Paul M Thompson**, PhD<sup>c</sup>, Michael Weiner, MD<sup>b</sup>, Charles DeCarli, MD<sup>a</sup> and Owen T Carmichael, PhD<sup>d</sup>, ADNI\* (2016). DTI, Volumetric, and PET Correlates of Executive Function and Memory in Older Adults, to be submitted, July 2016.
735. Gennady Roshchupkin<sup>\*1,2</sup>, Boris A Gutman<sup>\*3</sup>, Meike W Vernooij<sup>1,4</sup>, Neda Jahanshad<sup>3</sup>, Cornelia M van Duijn<sup>4</sup>, Albert Hofman<sup>4,5</sup>, André G Uitterlinden<sup>6</sup>, Margaret J Wright<sup>7</sup>, Wiro J Niessen<sup>1,2,8</sup>, Paul M Thompson<sup>3</sup>, M Arfan Ikram, Hieab HH Adams (2016). **Heritability of subcortical brain structures in the general population: volumes, shapes, and beyond**, *Nature Communications*, Nat Commun. 2016 Dec 15;7:13738. doi: 10.1038/ncomms13738.
736. **Colom R**, Hua X, Martínez K, Burgaleta M, Román FJ, Gunter JL, Carmona S, Jaeggi SM, Thompson PM. (2016). Brain structural changes following adaptive cognitive training assessed by Tensor-Based Morphometry (TBM), *Neuropsychologia*. 2016 Jul 28;91:77-85. doi: 10.1016/j.neuropsychologia.2016.07.034.
737. Hibar D et al. [Derrek P. Hibar<sup>1</sup>, Lars T. Westlye<sup>2,3</sup>, Nhat Trung Doan<sup>2,3</sup>, Neda Jahanshad<sup>1</sup>, Joshua W Cheung<sup>1</sup>, Christopher R.K. Ching<sup>1</sup>, Amelia Versace<sup>4</sup>, Amy Christine Bilderbeck<sup>5</sup>, Anne Uhlmann<sup>6,7</sup>, Benson Mwangi<sup>8</sup>, Bernd Krämer<sup>9</sup>, Bronwyn Overs<sup>10</sup>, Cecilie Bhandari Hartberg<sup>2,3</sup>, Christoph Abé<sup>11</sup>, Danai Dima<sup>12,13</sup>, Dominik Grotegerd<sup>14</sup>, Emma Sprooten<sup>15</sup>, Erlend Bøen<sup>16</sup>, Esther Jimenez<sup>17</sup>, Fleur M Howells<sup>18</sup>, Giuseppe Delvecchio<sup>19</sup>, Henk Temmingh<sup>18</sup>, Jonathan Starke<sup>18</sup>, Jorge R. C. Almeida<sup>20</sup>, Jose M Goikolea<sup>17</sup>, Josselin Houenou<sup>21,22</sup>, Lauren Beard<sup>23</sup>, Lisa Rauer<sup>9</sup>, Lucija Abramovic<sup>24</sup>, Mar Bonnin<sup>17</sup>, Maria Francesca Ponteduro<sup>13</sup>, Maria Keil<sup>25</sup>, Maria M Rive<sup>26</sup>, Nailin Yao<sup>27,28</sup>, Nefize Yalin<sup>13</sup>, Pablo Najt<sup>29</sup>, Pedro G. Rosa<sup>30,31</sup>, Ronny Redlich<sup>14</sup>, Sarah Trost<sup>25</sup>, Saskia Hagenaars<sup>32</sup>, Scott C. Fears<sup>33,34</sup>, Silvia Alonso-Lana<sup>35,36</sup>, Theo van Erp<sup>37</sup>, Thomas Nickson<sup>32</sup>, Tiffany Moukbel Chaim-Avancini<sup>30,31</sup>, Timothy B. Meier<sup>38,39</sup>, Torbjørn Elvsåshagen<sup>40,41</sup>, Unn K. Haukvik<sup>42</sup>, Won Hee Lee<sup>15</sup>, Aart

- H Schene<sup>43,44</sup>, Adrian J. Lloyd<sup>45</sup>, Allan H. Young<sup>46</sup>, Allison Nugent<sup>47</sup>, Anders M. Dale<sup>48,49</sup>, Andrea Pfennig<sup>50</sup>, Andrew M. McIntosh<sup>32</sup>, Beny Lafer<sup>30</sup>, Bernhard T. Baune<sup>51</sup>, Carl Johan Ekman<sup>11</sup>, Carlos A. Zarate Jr.<sup>47</sup>, Carrie E. Bearden<sup>52</sup>, Chantal Henry<sup>21,53</sup>, Christian Simhandl<sup>54</sup>, Colm McDonald<sup>29</sup>, Corin Bourne<sup>5,55</sup>, Dan J Stein<sup>18,7</sup>, Daniel H. Wolf<sup>23</sup>, Dara M. Cannon<sup>29</sup>, David C. Glahn<sup>27,28</sup>, Dick J Veltman<sup>56</sup>, Edith Pomarol-Clotet<sup>35,36</sup>, Eduard Vieta<sup>17</sup>, Erick J. Canales-Rodriguez<sup>35,36</sup>, Fabiano G. Nery<sup>30,57</sup>, Fabio L. S. Duran<sup>30,31</sup>, Geraldo F. Busatto<sup>30,31</sup>, Gloria Roberts<sup>58</sup>, Godfrey D. Pearlson<sup>27,28</sup>, Guy M. Goodwin<sup>5</sup>, Harald Kugel<sup>59</sup>, Heather C. Whalley<sup>32</sup>, Henricus G Ruhe<sup>26,60</sup>, Jair C. Soares<sup>8</sup>, Janice M. Fullerton<sup>10,61</sup>, Janusz K. Rybakowski<sup>62</sup>, Jonathan Savitz<sup>39,63</sup>, Khallil T. Chaim<sup>64,65</sup>, Mar Fatjó-Vilas<sup>35,36</sup>, Marcio G. Soeiro-de-Souza<sup>30</sup>, Marco P. Boks<sup>24</sup>, Marcus V. Zanetti<sup>30,31</sup>, Maria C. G. Otaduy<sup>64,65</sup>, Maristela S. Schaufelberger<sup>30,66</sup>, Martin Alda<sup>67</sup>, Martin Ingvar<sup>11,69</sup>, Mary L. Phillips<sup>4</sup>, Matthew J Kempton<sup>13</sup>, Michael Bauer<sup>50</sup>, Mikael Landén<sup>11,70</sup>, Natalia S. Lawrence<sup>71</sup>, Neeltje E. M. van Haren<sup>24</sup>, Neil R Horn<sup>18</sup>, Nelson B. Freimer<sup>72</sup>, Oliver Gruber<sup>9</sup>, Peter R. Schofield<sup>10,61</sup>, Philip B. Mitchell<sup>58</sup>, René S. Kahn<sup>24</sup>, Rhoshel Lenroot<sup>10,73</sup>, Rodrigo Machado-Vieira<sup>30,74</sup>, Roel Ophoff<sup>72,24</sup>, Salvador Sarró<sup>35,36</sup>, Sophia Frangou<sup>15</sup>, Theodore D. Satterthwaite<sup>23</sup>, Tomas Hajek<sup>67,68</sup>, Udo Dannlowski<sup>14,75</sup>, Ulrik F. Malt<sup>76,77</sup>, Volker Arolt<sup>14</sup>, Wagner F. Gattaz<sup>30</sup>, Wayne C. Drevets<sup>78</sup>, Xavier Caseras<sup>79</sup>, Ingrid Agartz<sup>16,2</sup>, Paul M. Thompson<sup>1</sup>, Ole A. Andreassen<sup>2,3\*\*</sup> for the ENIGMA Bipolar Disorder Working Group] (2017). Cortical abnormalities in bipolar disorder: An MRI analysis of 6,503 individuals from the ENIGMA-Bipolar Disorder Working Group, submitted to **Molecular Psychiatry**, August 3 2017; 2<sup>nd</sup> revision submitted, Feb. 4 2017.
738. Peter Kochunov<sup>1</sup>, Laura M. Rowland<sup>1</sup>, Els Fiereman<sup>2</sup>, Jelle Veraart<sup>2</sup>, Neda Jahanshad<sup>3</sup>, George Eskandar<sup>1</sup>, Xiaoming Du<sup>1</sup>, Florian Muellerklein<sup>1</sup>, Anya Savransky<sup>1</sup>, Dinesh Shulka<sup>1</sup>, Hemalatha Sampath<sup>1</sup>, Paul M. Thompson<sup>3</sup>, L. Elliot Hong (2016). Diffusion weighted imaging uncovers **likely sources of** processing speed deficits in schizophrenia, Proc Natl Acad Sci U S A. 2016 Nov 22;113(47):13504-13509.
739. Xinsong Yang, Lei Shi, Madelaine Daianu, Hanghang Tong, Qingsong Liu, **Paul Thompson** (2016). Blockwise Human Brain Network Visual Comparison Using NodeTrix Representation, IEEE Transactions on Visualization and Computer Graphics 01/2016; DOI:10.1109/TVCG.2016.2598472
740. Jahanshad N, **Thompson PM** (2017). [Multimodal neuroimaging of male and female brain structure in health and disease across the life span.](#) J Neurosci Res. 2017 Jan 2;95(1-2):371-379. doi: 10.1002/jnr.23919. Review.
741. Jin Y, Huang C, Daianu M, Zhan L, Dennis EL, Reid RI, Jack CR Jr, Zhu H, **Thompson PM**; Alzheimer's Disease Neuroimaging Initiative (2016). [3D tract-specific local and global analysis of white matter integrity in Alzheimer's disease.](#) Hum Brain Mapp. 2016 Nov 24. doi: 10.1002/hbm.23448. [Epub ahead of print].
742. Sylvia S Fong, MA; Pongsatorn Paholpak; Madelaine Daianu, Ph.D.; Mariel B Deutsch, M.D.; Brandalyn C Riedel, MSG; Andrew R Carr, Ph.D.; Elvira E Jimenez, MPH; Michelle M Mather, M.A.; Paul M Thompson, Ph.D.; Mario Mendez, MD, PhD (2017). The Attribution of Animacy and Agency in Frontotemporal Dementia versus Alzheimer's Disease, **Cortex**, in press, April 2017.
743. Junping Wang<sup>1,2</sup>, Meredith N. Braskie<sup>1</sup>, George W. Hafzalla<sup>1</sup>, Joshua Faskowitz<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Margaret J. Wright<sup>5</sup>, Chunshui Yu<sup>2</sup>, **Paul M. Thompson** (2017). Relationship of a common *OXTR* gene variant to brain structure and default mode network function in healthy humans, **NeuroImage**, Neuroimage. 2017 Feb 15;147:500-506. doi: 10.1016/j.neuroimage.2016.12.062. Epub 2016 Dec 23. PMID: 28017919.
744. Watson C, Edgar Busovaca<sup>1,2</sup>, Jessica M. Foley<sup>1</sup>, I. Elaine Allen<sup>3</sup>, Christopher G. Schwarz<sup>4,5,6</sup>, Neda Jahanshad<sup>6</sup>, Talia M. Nir<sup>6</sup>, Pardis Esmaeili-Firidouni<sup>1</sup>, Benedetta Milanini<sup>1</sup>, Howard Rosen<sup>1</sup>, Owen T. Carmichael<sup>7</sup>, Paul M.



Thompson<sup>6</sup>, Victor G. Valcour (2017). White Matter Hyperintensities Correlate to Cognition and Fiber Tract Integrity in Older Adults with HIV, **Journal of Neurovirology**, in press, Dec. 27 2016.

745. Daan van Rooij<sup>1</sup>, Evdokia Anagnostou<sup>3</sup>, Celso Arango<sup>4</sup>, Guillaume Auzias<sup>5</sup>, Marlene Behrmann<sup>6</sup>, Sara Calderoni<sup>7</sup>, Eileen Daly<sup>8</sup>, Christine Deruelle<sup>9</sup>, Adriana Dimartino<sup>10,\*</sup>, Ilan Dinstein<sup>11</sup>, Sarah Durston<sup>12</sup>, Christine Ecker<sup>13</sup>, Damien Fair<sup>14</sup>, Jennifer Fedor<sup>15</sup>, Jackie Fitzgerald<sup>16</sup>, Christine Freitag<sup>13</sup>, Louise Gallagher<sup>16</sup>, Iliaria Gori<sup>17</sup>, Shlomi Haar<sup>18</sup>, Liesbeth Hoekstra<sup>1,2</sup>, Neda Jahanshad<sup>28</sup>, Maria Jalbrzikowski<sup>19</sup>, Joost Janssen<sup>4</sup>, Jason Lerch<sup>20</sup>, Beatriz Luna<sup>21</sup>, Jane McGrath<sup>16</sup>, Filippo Muratori<sup>7,22</sup>, Clodagh Murphy<sup>23</sup>, Declan G M Murphy<sup>23,24</sup>, Kirsten O'Hearn<sup>6</sup>, Bob Oranje<sup>12</sup>, Mara Parellada<sup>4</sup>, Alessandra Retico<sup>25</sup>, Katya Rubia<sup>26</sup>, Devon Shook<sup>12</sup>, Margot Taylor<sup>27</sup>, **Paul M. Thompson<sup>28</sup>**, Michela Tosetti<sup>7</sup>, Greg Wallace<sup>29</sup>, Fengfeng Zhou<sup>30</sup>, Jan K. Buitelaar<sup>1,2</sup> (2017). **Subcortical brain volume differences between patients with autism spectrum disorders (ASD) and healthy individuals across the lifespan: an ENIGMA collaboration, to be Am. J Psych., in press, Aug. 2017.**

746. Brian A. Gordon<sup>\*+ab</sup>, PhD, Tyler M. Blazey<sup>+ac</sup>, BS, Yi Su<sup>a</sup>, PhD, Amrita Hari-Raja<sup>a</sup>, BA, Aylin Dincera<sup>a</sup>, BA, Shaney Flores<sup>a</sup>, BS, Jon Christensen<sup>a</sup>, BS, Eric McDade<sup>d</sup>, DO, Guoqiao Wang<sup>d</sup>, PhD, Chengjie Xiong<sup>be</sup>, PhD, Nigel J. Cairns<sup>bd</sup>, PhD, , MS, Jason Hassenstab<sup>df</sup> Daniel S. Marcus<sup>a</sup>, Clifford R. Jack Jr.<sup>g</sup>, MD, **Paul M. Thompson, PhD<sup>i</sup>**, Russ Hornbeck<sup>a</sup>, Marcus E. Raichle<sup>a</sup>, MD, John C. Morris<sup>bd</sup>, MD, Randall J. Bateman<sup>bd</sup>, MD, Tammie L.S. Benzinger<sup>abh</sup>, MD for the Dominantly Inherited Alzheimer Network (2017). Spatial patterns of longitudinal neuroimaging biomarker change in autosomal dominant Alzheimer disease, submitted, Jan. 2017.

747. Lachlan T. Strike<sup>1\*</sup>, Narelle K. Hansell<sup>1</sup>, Baptiste Couvy-Duchesne<sup>1</sup>, **Paul M. Thompson<sup>2</sup>**, Nicholas G. Martin<sup>3</sup>, Greig de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>5</sup>, Margaret J. Wright<sup>1,5</sup> (2017). **Genetic complexity of cortical structure: Differences in genetic and environmental factors influencing cortical surface area and thickness, submitted to Cerebral Cortex, Jan. 2017.**

748. Olav B Smeland (M.D. Ph.D.)<sup>1</sup>, Yunpeng Wang (Ph.D.)<sup>1,2,3</sup>, Oleksandr Frei (Ph.D.)<sup>1</sup>, Wen Li (Ph.D.)<sup>1</sup>, Derrek P Hibar (Ph.D.)<sup>4</sup>, Barbara Franke (Ph.D.)<sup>5,6,7</sup>, Francesco Bettella (Ph.D.)<sup>1</sup>, Aree Witoelar (Ph.D.)<sup>1</sup>, Srdjan Djurovic (Ph.D.)<sup>8,9</sup>, Chi-Hua Chen (Ph.D.)<sup>2,3</sup>, Paul M Thompson (PhD)<sup>4</sup>, Anders M Dale (Ph.D.)<sup>2,3,10,11</sup>, Ole A Andreassen (M.D. Ph.D.)<sup>1,2,8</sup> (2017). **Identification of genetic loci shared between schizophrenia and volumes of hippocampus, putamen and intracranial volume, submitted to Biological Psychiatry, Feb. 2017.**

749. Karolis, V., Froudast-Walsh, S., Kroll, J., Brittain, P., Tseng, C.-E., Nam, K.-W., Reinders, S., Murray, R., Williams, S., Thompson, P., & Nosarti, C. (2017). **Volumetric grey matter alterations in adults who were born very preterm suggest accelerated age-dependent maturational processes; to be submitted, Feb. 2017.**

750. Q. Wang<sup>1</sup>, L. Guo<sup>2</sup>, P.M. Thompson<sup>3</sup>, C.R. Jack Jr<sup>4</sup>, H. Dodge<sup>5,6</sup>, L. Zhan<sup>7</sup>, J. Zhou (2017). The added value of diffusion MRI in evaluating mild cognitive impairment: a multi-cohort validation; **to be submitted, Feb. 2017.**

751. Hieab H.H. Adams\* 1,2 , Katharina Wittfeld\* 3,4 , Neda Jahanshad\* 5 , Gennady V Roshchupkin\* 6,2 , Bernard Mazoyer 7 , Alexa Beiser 8,9,10 , Lenore J. Launer 11 , Joshua C. Bis 12 , Xueqiu Jian 13 ,

Michelle Luciano 14 , Stella Trompet 15 , Edith Hofer 16,17 , Lisa R. Yanek 18 , Petros Kolovos 19 , Ahmed Mahfouz 20,21 , Cornelia M. van Duijn 1 , Alexander Teumer 22 , Derrek P. Hibar 5 , Ganesh Chauhan 23 , Claudia Satizabal 8,10 , Albert V. Smith 24,25 , James T. Becker 26 , Rebecca F. Gottesman 27 , Mark E. Bastin 28,14,29,30 , P. Eline Slagboom 31 , Stephan Seiler 16 , Dhananjay Vaidya 18 , Andre G. Uitterlinden 1,32 , Sönke Langner 33 , Guy Perchey 7 , Kendra L. Davis 9,10 , Alex Zijdenbos 34 , Jerome I. Rotter 35 , Judd Storrs 36 , Saskia P. Hagenaars 14 , David J. Stott 37 , Mohsen Ghanbari 1,38 , Hakon Hakonarson 39 , Wyke Huizinga 2,6 , Patrick M.A. Sleiman 39,40 , Vivanna M. Van Deerlin 41 , Najaf Amin 1 , Wolfgang Hoffmann 22,3 , Pedram Parva 42,43 , David S Knopman 44 , Ian Ford 45 , Shuo Li 9,10 , Qiong Yang 9,10 , Georg Homuth 46 , Norbert Hosten 33 , Matthias Nauck 47,48 , David C.M. Liewald 14 , Beverly G. Windham 49 , Bruce M. Psaty 50 , Jose R. Romero 8,10 , Deborah Janowitz 4 , Aad van der Lugt 2 , Diane M. Becker 18 , Helena Schmidt 51 , Jeroen van der Grond 52 , Ian J. Deary 14 , Thomas H. Mosley 49 , Oscar L. Lopez 53 , Sigurdur Sigurdsson 24 , Charles DeCarli 54 , Philippe Amouyel 55 , Josh Cheung 5 , Henry Völzke 22 , Meike W. Vernooij 1,2 , Boudewijn P.F. Lelieveldt 20,21 , Raymond A. Poot 19 , Paul Nyquist 56 , Reinhold Schmidt 16 , J. Wouter Jukema 15 , Joanna M. Wardlaw 28,14,29,30 , Myriam Fornage 13 , WT Longstreth, Jr 57 , Vilmundur Gudnason 24,25 , Sudha Seshadri 8,10 , Stéphanie Debette 23,58,8 , Wiro J. Niessen\*\*, **Paul M. Thompson\*\***, Hans J. Grabe\*\*, M. Arfan Ikram\*\* (2017). Genetic architecture of the human anterior commissure, to be submitted, Feb. 2017. [\*\*these authors jointly supervised the work].

752. Dennis EL, Babikian T, Alger JR, Rashid F, Villalon-Reina JE, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, **Thompson PM** (2018). Magnetic Resonance Spectroscopy of Fiber Tracts in Children with Traumatic Brain Injury. *Human Brain Mapping*, **In Press**.

753. Sulaimany, Sadegh; Khansari, Mohammad; Zarrineh, Peyman; Daianu, Madelaine; **Jahanshad, Neda**; Thompson, Paul; Masoudi-Nejad, Ali (2017). "Predicting Brain Network Changes in Alzheimer's Disease with Link Prediction Algorithms, **Molecular Biosystems**, accepted, published online, Feb. 2017.

754. Pizzagalli F, Guillaume Auzias<sup>b,c</sup>, Joshua Faskowitz<sup>a</sup>, Samuel R. Mathias<sup>d,e</sup>, Peter Kochunov<sup>f</sup>, Denis Rivière<sup>g,h</sup>, Katie L. McMahon<sup>i</sup>, Greig I. de Zubicaray<sup>l</sup>, Nicholas G. Martin<sup>m</sup>, Jean-François Mangin<sup>g,h</sup>, David C. Glahn<sup>d,e</sup>, John Blangero, Margaret J. Wright<sup>o</sup>, Paul M. Thompson<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Fabrizio Pizzagalli<sup>a</sup>, Guillaume Auzias<sup>b,c</sup>, Joshua Faskowitz<sup>a</sup>, Samuel R. Mathias<sup>d,e</sup>, Peter Kochunov<sup>f</sup>, Denis Rivière<sup>g,h</sup>, Katie L. McMahon<sup>i</sup>, Greig I. de Zubicaray<sup>l</sup>, Nicholas G. Martin<sup>m</sup>, Jean-François Mangin<sup>g,h</sup>, David C. Glahn<sup>d,e</sup>, John Blangero, Margaret J. Wright<sup>o</sup>, **Paul M. Thompson<sup>a</sup>**, Neda Jahanshad (2017). **The heritability and genetic asymmetry of cortical folds across the entire brain in 3,030 healthy adults, PNAS, under revision, June 2017.**

755. Pamela Douglas, Boris Gutman, PhD; Ariana Anderson, PhD; DB Douglas, MD; Biswa Sengupta, PhD; Gerald Cooray, MD; Katherine Narr, PhD; Katherine Lawrence; James McGough, MD; Paul Thompson, PhD; Susan Bookheimer, PhD (2017). Increased Brain Asymmetry is Associated with Attention-Deficit/Hyperactivity Disorder, submitted to *NeuroImage: Clinical*, Feb. 20, 2017.

756. Susan D Shenkin, Cyril Pernet, Thomas E Nichols, Jean-Baptiste Poline, Paul M. Matthews, Aad van der Lugt, Clare Mackay, Linda Lanyon, Bernard Mazoyer, James P Boardman, **Paul M Thompson**, Nick Fox, Daniel S Marcus, Aziz Sheikh, Simon R Cox, Devasuda Anblagan, Dominic E Job, David Alexander Dickie, David Rodriguez, Joanna M Wardlaw (2017). Improving data availability for brain image biobanking in healthy subjects: practice-based suggestions from an international multidisciplinary working group, *NeuroImage*, Feb. 2017, <http://dx.doi.org/10.1016/j.neuroimage.2017.02.030>

757. Bearden C, Thompson PM (2017). **Emerging Global Initiatives in Neurogenetics: The Enhancing Neuroimaging Genetics through Meta-analysis (ENIGMA) Consortium**, *Neuron*, March 2017.
758. Dennis EL, Joshua Faskowitz; Faisal Rashid; Talin Babikian; Richard Mink; Christopher Babbitt; Jeffrey Johnson; Christopher Giza; Neda Jahanshad; Paul Thompson, Robert Asarnow (2017). Diverging Volumetric Trajectories Following Pediatric Traumatic Brain Injury, **Neuroimage Clinical**, in press, March 2017.
759. Amy Lin, Christopher Ching, Ariana Vajdi, Daqiang Sun, Rachel Jonas, Maria Jalbrzikowski, Leila Kushan-Wells, Laura Pacheco Hansen, Emma Krikorian, Boris Gutman, Gerhard Helleman, **Paul Thompson**, and Carrie Bearden (2017). **Mapping 22q11.2 Gene Dosage Effects on Brain Morphometry**, *Journal of Neuroscience*, May 2017.
760. Patrizia Andrea Chiesa<sup>1</sup>, Enrica Cavedo<sup>1,2</sup>, Simone Lista<sup>1</sup>, Paul M. Thompson<sup>3</sup>, and Harald Hampel (2017). **The Revolution of Functional Neuroimaging Genetics in Alzheimer's Disease**, *Trends in Neuroscience*, 2017.
761. Cheung JW, Derrek P. Hibar, Neda Jahanshad, Mike A. Nalls, Nathan Pankratz, Tatiana Foroud, Andrew B. Singleton, ENIGMA Consortium, Paul M. Thompson (2016). Joint genetic drivers of brain structure and Parkinson's disease risk, submitted to **Nature Neuroscience**, April 11 2016.
762. Daianu M, Greg Ver Steeg, Brandalyn Riedel, Neda Jahanshad, Christopher Ching, Boris A. Gutman, Xue Hua, Adam Mezher, Artemis Zavaliangos-Petropulu, Aram Galstyan, Paul M. Thompson (2017). Predicting Brain Health as We Age Using Information Theory to Combine Weak Biomarkers, submitted to **PLoS ONE**, March 2016, under revision.
763. Kai Xia<sup>1</sup>, Jingwen Zhang<sup>2</sup>, Mihye Ahn<sup>2\*</sup>, Shaili Jha<sup>3</sup>, James Crowley<sup>1,4,5</sup>, Jin Szatkiewicz<sup>1,4</sup>, Tengfei Li<sup>6</sup>, Fei Zou<sup>2</sup>, Hongtu Zhu<sup>2</sup>, Derrek Hibar<sup>7\*\*</sup>, Paul Thompson<sup>7</sup>, ENIGMA Consortium, Patrick F. Sullivan<sup>1,4,7</sup>, Martin Styner<sup>1</sup>, John H. Gilmore<sup>1</sup>, Rebecca C. Knickmeyer (2017). Genome-Wide Association Analysis Identifies Common Variants Influencing Infant Brain Volumes, accepted, **Translational Psychiatry**, in press.
764. Christopher D Whelan<sup>1,2</sup>, Andre Altmann<sup>3</sup>, Juan A Botía<sup>4</sup>, Neda Jahanshad<sup>1</sup>, Derrek P Hibar<sup>1</sup>, Julie Absil<sup>5</sup>, Saud Alhusaini<sup>6,2</sup>, Marina K Alvim<sup>8</sup>, Pia Auvinen<sup>9,10</sup>, Emanuele Bartolini<sup>11,12</sup>, Felipe Bergo<sup>8</sup>, Tauana Bernardes<sup>8</sup>, Karen Blackmon<sup>7</sup>, Barbara Braga<sup>8</sup>, Maria Eugenia Caligiuri<sup>13</sup>, Anna Calvo<sup>14</sup>, Sarah J Carr<sup>15</sup>, Jian Chen<sup>16</sup>, Shuai Chen<sup>17,18</sup>, Andrea Cherubini<sup>13</sup>, Philippe David<sup>5</sup>, Martin Domin<sup>19</sup>, Sonya Foley<sup>20</sup>, Wendy Franča<sup>8</sup>, Gerrit Haaker<sup>21,22</sup>, Dmitry Isaev<sup>1</sup>, Simon S Keller<sup>23,24</sup>, Raviteja Kotikalapudi<sup>25,26</sup>, Magdalena A Kowalczyk<sup>27</sup>, Ruben Kuzniecky<sup>7</sup>, Soenke Langner<sup>19</sup>, Matteo Lenge<sup>11</sup>, Kelly M Leyden<sup>28,29</sup>, Min Liu<sup>30</sup>, Richard Q Loi<sup>28,29</sup>, Pascal Martin<sup>25</sup>, Mario Mascalchi<sup>32,33</sup>, Marcia Morita<sup>8</sup>, Jose C Pariente<sup>14</sup>, Raul Rodriguez-Cruces<sup>35</sup>, Christian Rummel<sup>36</sup>, Taavi Saavalainen<sup>10,37</sup>, Mira K Semmelroch<sup>27</sup>, Mariasavina Severino<sup>38</sup>, Rhys H Thomas<sup>39,40</sup>, Manuela Tondelli<sup>41</sup>, Domenico Tortora<sup>38</sup>, Anna Elisabetta Vaudano<sup>41</sup>, Lucy Vivash<sup>42,43</sup>, Felix von Podewils<sup>44</sup>, Jan Wagner<sup>45,46</sup>, Bernd Weber<sup>45,47</sup>, Yi Yao<sup>48</sup>, Clarissa L Yasuda<sup>8</sup>, Guohao Zhang<sup>16,4</sup>, UK Brain Expression Consortium<sup>49</sup>, Nuria Bargallo<sup>50,14</sup>, Benjamin Bender<sup>26</sup>, Neda Bernasconi<sup>30</sup>, Andrea Bernasconi<sup>30</sup>, Boris C Bernhardt<sup>30</sup>, Ingmar Blumcke<sup>22</sup>, Chad Carlson<sup>31,7</sup>, Gianpiero L Cavalleri<sup>2</sup>, Fernando Cendes<sup>8</sup>, Luis Concha<sup>35</sup>, Norman Delanty<sup>51</sup>, Chantal Depondt<sup>52</sup>, Orrin Devinsky<sup>7</sup>, Colin Doherty<sup>53</sup>, Niels K Focke<sup>25</sup>, Antonio Gambardella<sup>54,13</sup>, Renzo Guerrini<sup>11,12</sup>, Khalid Hamandi<sup>39,40</sup>, Graeme D Jackson<sup>27,55</sup>, Reetta Kälviäinen<sup>9,10</sup>, Peter Kochunov<sup>56</sup>, Patrick Kwan<sup>4</sup>, Angelo Labate<sup>54,13</sup>, Carrie R McDonald<sup>28,29</sup>, Stefano Meletti<sup>41</sup>, Terence J O'Brien<sup>57,43</sup>, Sebastien Ourselin<sup>58</sup>, Mark P Richardson<sup>15,59</sup>, Pasquale Striano<sup>60</sup>, Thomas Thesen<sup>7</sup>, Roland Wiest<sup>36</sup>, Junsong Zhang<sup>17,18</sup>, Annamaria Vezzani<sup>61</sup>, Mina Ryten<sup>4,62</sup>, Paul M Thompson<sup>1</sup>, and Sanjay M Sisodiya<sup>63</sup>, for the ENIGMA Epilepsy working group (2018). **Cortical abnormalities in the common epilepsies assessed in 2,149 patients and 1,727 controls across 14 countries, Brain**, to appear, Jan 22 2018.
765. Olsen A, Dennis E, Evensen KAI, Brubakk A, Eikenes L, Håberg AK (2018). Preterm birth leads to hyper-reactive cognitive control processing and poor white matter organization in adulthood. *NeuroImage*, 167, 419-428.

766. Kirsi M. Kinnunen<sup>a,1</sup>, David M. Cash<sup>a,b,1</sup>, Teresa Poole<sup>a,c</sup>, Chris Frost<sup>a,c</sup>, Tammie L. S. Benzinger<sup>d</sup>, R. Laila Ahsan<sup>a</sup>, Kelvin K. Leung<sup>a</sup>, M. Jorge Cardoso<sup>a,b</sup>, Marc M. Modat<sup>a,b</sup>, Ian B. Malone<sup>a</sup>, John C. Morris<sup>d</sup>, Randall J. Bateman<sup>d</sup>, Daniel S. Marcus<sup>d</sup>, Alison Goate<sup>e</sup>, Stephen Salloway<sup>f</sup>, Stephen Correia<sup>f</sup>, Reisa A. Sperling<sup>g</sup>, Richard Mayeux<sup>h</sup>, Adam M. Brickman<sup>h</sup>, Ralph N. Martins<sup>i</sup>, Martin R. Farlow<sup>j</sup>, Bernardino Ghetti<sup>j</sup>, Andrew J. Saykin<sup>i</sup>, Clifford R. Jack Jr<sup>k</sup>, Peter R. Schofield<sup>l,m</sup>, Eric McDade<sup>n</sup>, Michael W. Weiner<sup>o</sup>, John M. Ringman<sup>p</sup>, Paul M. Thompson<sup>q</sup>, Colin L. Masters<sup>r</sup>, Christopher C. Rowe<sup>s</sup>, Martin N. Rossor<sup>a</sup>, Sebastien Ourselin<sup>a,b</sup>, Nick C. Fox<sup>a\*</sup>, for the Dominantly Inherited Alzheimer Network (DIAN). Longitudinal change point modeling of atrophy rates in presymptomatic and early symptomatic autosomal dominant Alzheimer's disease, **Alzheimer's & Dementia**, accepted, in press, June 2017.
767. Daqiang Sun<sup>1,2</sup>, Christopher Ching<sup>1,3,4</sup>, Amy Lin<sup>1,4</sup>, Jennifer Forsyth<sup>1,5</sup>, Leila Kushan<sup>1</sup>, Ariana Vajdi<sup>1</sup>, Maria Jalbrzikowski<sup>6</sup>, Laura Hansen<sup>1</sup>, Julio E. Villalón-Reina<sup>3</sup>, Xiaoping Qu<sup>3</sup>, Rachel K. Jonas<sup>1,4</sup>, Boris A. Gutman<sup>3</sup>, Therese van Amelsvoort<sup>8</sup>, Geor Bakker<sup>8</sup>, Wendy R. Kates<sup>9</sup>, Kevin M. Antshel<sup>10</sup>, Wanda Fremont<sup>9</sup>, Linda E. Campbell<sup>11</sup>, Kathryn L. McCabe<sup>12</sup>, Eileen Daly<sup>13</sup>, Maria Gudbrandsen<sup>13</sup>, Clodagh Murphy<sup>13</sup>, Declan Murphy<sup>13</sup>, Michael Craig<sup>14</sup>, Jacob Vorstman<sup>15</sup>, Ania Fiksinski<sup>15</sup>, Liz Gras<sup>15</sup>, Kosha Ruparel<sup>16</sup>, David R. Roalf<sup>16</sup>, Raquel E. Gur<sup>17</sup>, J. Eric Schmitt<sup>18</sup>, Tony J. Simon<sup>19</sup>, Naomi J. Goodrich-Hunsaker<sup>20</sup>, Courtney A. Durdle<sup>19</sup>, Anne S. Bassett<sup>21-23</sup>, Eva W. C. Chow<sup>21-22</sup>, Nancy Butcher<sup>21</sup>, Fidel Vila-Rodriguez<sup>24</sup>, Joanne Doherty<sup>25</sup>, Adam Cunningham<sup>25</sup>, Marianne van den Bree<sup>25</sup>, David E. J. Linden<sup>25</sup>, Michael Owen<sup>25</sup>, Beverly Emanuel<sup>28,29</sup>, Theo G.M. van Erp<sup>26</sup>, Jessica A. Turner<sup>27</sup>, Paul M. Thompson<sup>37</sup>, Carrie E. Bearden<sup>1</sup> **Cortical Alterations in 22q11.2 Deletion Syndrome: A Multi-Site Structural MRI Analysis, submitted, July 2017.**
768. Chao Huang, **Paul M. Thompson**, Yalin Wang<sup>c</sup>, Yang Yu<sup>d</sup>, Jingwen Zhang<sup>a</sup>, Dehan Kong<sup>e</sup>, Rebecca C Knickmeyer<sup>f</sup>, Rivka R. Colen<sup>g</sup>, Hongtu Zhu<sup>a</sup>, and the Alzheimer's Disease Neuroimaging Initiative (2017). FGWAS: Functional Genome-Wide Association Analysis, NeuroImage. 2017 Oct 1;159:107-121. doi: 10.1016/j.neuroimage.2017.07.030. Epub 2017 Jul 20.
769. Zhan L<sup>1\*</sup>, Lisanne M. Jenkins<sup>2</sup>, Ouri E. Wolfson<sup>3</sup>, Johnson J. GadElkarim<sup>4</sup>, **Paul M. Thompson**<sup>5</sup>, Olusola A. Ajilore<sup>2</sup>, Moo K. Chung<sup>6</sup>, Alex D. Leow (2017). The Significance of Negative Correlations in Brain Connectivity, J. Comparative Neurology, in press.
770. Dirk JA Smit (1), Margaret J Wright (2,3), Jacquelyn L Meyers (4), Nicholas G Martin (5), Yvonne Ho (5), Stephen M Malone (6), Jian Zhang (4), Scott J Burwell (6), David B Chorlian (4), Eco JC de Geus (7), Damiaan Denys (1), Narelle K Hansell (5), Jouke-Jan Hottenga (7), Matt McGue (6), Catharina EM van Beijsterveldt (7), Neda Jahanshad (8), Paul M Thompson (8), Christopher J Whelan (8), Sarah E Medland (5), Bernice Porjesz (4), William G Iacono (6), Dorret I Boomsma (7) for the ENIGMA-EEG Working Group (2017). Genome-wide association analysis links multiple genes to oscillatory brain activity, submitted to **Molecular Psychiatry, under review, Dec. 2017.**
771. King J, Frank G, Thompson PM, Ehrlich S (2017). Structural Neuroimaging of Anorexia Nervosa: Future Directions in the Quest for Mechanisms Underlying Dynamic Alterations, invited paper for **Biological Psychiatry**, in press, Aug 2017.
772. Evan R. Beiter<sup>1</sup>, Ekaterina A. Khramtsova<sup>2,3</sup>, Celia Van Der Merwe<sup>4</sup>, Emile R. Chimusa<sup>5</sup>, Corinne Simonti<sup>6</sup>, Jason Stein<sup>7</sup>, **Paul M. Thompson**<sup>8</sup>, Simon E. Fisher<sup>9</sup>, Dan J. Stein<sup>4</sup>, John A. Capra<sup>6,10</sup>, James A. Knowles<sup>11</sup>, Barbara E. Stranger<sup>2,3,12\*§</sup>, Lea K. Davis (2018). Polygenic selection underlies evolution of brain structure volumes and behavioral traits, submitted to Nature Neuroscience, 2017.

773. Walker M, Gerschenson M, Shikuma C, Kallianpur K, Korhorn L, **Jahanshad N, Thompson PM, Paul R (2017)**. Mitochondrial function is related to volumetric and microstructural brain abnormalities in people living with the human immunodeficiency virus (HIV), submitted to **Mitochondrion**, August 2017.
774. Mary S. Mufford, Dan J. Stein, Shareefa Dalvie, Nynke Groenewold, **Paul M. Thompson**, Neda Jahanshad (2017). Neuroimaging Genomics in Psychiatry: A Translational Approach, **Frontiers in Neuroscience**, 2017.
775. Fabian Corlier, George Hafzalla, Joshua Faskowitz, Lewis H. Kuller, James T. Becker, Oscar L. Lopez, **Paul M. Thompson**, Meredith N. Braskie (2018). Systemic inflammation as a predictor of brain aging: Contributions of physical activity, metabolic risk, and genetic risk, **Neuroimage**, 2018.
776. Kochunov P<sup>1\*</sup>, Dickie EW<sup>2\*</sup>, Viviano JD<sup>2\*</sup>, Turner J<sup>3</sup>, Kingsley PB<sup>4</sup>, Jahanshad N<sup>5</sup>, Thompson PM<sup>5</sup>, Ryan MC<sup>1</sup>, Fieremans E<sup>6</sup>, Novikov D<sup>6</sup>, Veraart J<sup>6</sup>, Hong EL<sup>1</sup>, Malhotra AK<sup>4</sup>, Buchanan RW<sup>1</sup>, Chavez S<sup>2,7</sup>, Voineskos AN<sup>2,7</sup> (2018). **Integration of routine QA data into mega-analysis may improve quality and sensitivity of multi-site diffusion tensor imaging studies**, submitted, Sept. 2017.
777. Walton E, Hibar D, Yilmaz Z, Jahanshad N, Cheung J, Zorn VL, Seitz J, Bulik C, PGC-Eating Disorders Working Group, ENIGMA Genetics Working Group, **Thompson PM**, Ehrlich S\* (2017). Shared genetic architecture between subcortical brain volumes and Anorexia Nervosa? submitted to **Molecular Neurobiology**, revised version submitted, Nov. 2018.
778. Baptiste Couvy-Duchesne, Lachlan Strike, Greig de Zubicaray, Katie McMahon, Paul Thompson, Ian Hickie, Nicholas Martin, and Margaret Wright (2017). Lingual Gyrus surface area is associated with anxiety-depression severity in young adults: a genetic clustering approach, submitted to *eNeuro*, Oct 3 2017, under revision, Nov. 15 2017.
779. Xiang-Zhen Kong, Samuel  
 R. Mathias, Tulio Guadalupe, Christoph Abé, Ingrid Agartz, Theophilus  
 N. Akudjedu, Andre Aleman, Saud Alhusaini, Nicholas B. Allen, David Ames, Ole  
 A. Andreassen, Alejandro Arias Vasquez, Nicola J. Armstrong, Felipe Bergo, Mark  
 E. Bastin, Albert Batalla, Jochen Bauer, Bernhard Baune, Ramona Baur, Joseph Biederman,  
 Sara  
 K. Blaine, Premika Boedhoe, Erlend Bøen, Anushree Bose, Janita Bralten, Daniel Brandeis,  
 Silvia Brem, Henry Brodaty, Henrieke Brühl, Samantha  
 J. Brooks, Jan Buitelaar, Christian Bürger, Robin Bülow, Vince Calhoun, Anna Calvo, Eric  
 k Jorge Canales-Rodríguez, Jose M. Canive, Dara M. Cannon, Elisabeth  
 C. Caparelli, Francisco X. Castellanos, Gianpiero L. Cavalleri, Fernando Cendes, Tiffany  
 Moukbel Chaim-Avancini, Kaylita Chantiluke, Qun-  
 lin Chen, Xiayu Chen, Yuqi Cheng, Anastasia Christakou, Vincent  
 P. Clark, David Coghill, Colm G. Connolly, Annette Conzelmann, Aldo Córdova-  
 Palomera, Janna Cousijn, Tim Crow, Ana Cubillo, Udo Dannlowski, Sara Ambrosino de  
 Bruttupilo, Patrick de Zeeuw, Ian J. Deary, Norman Delanty, Damion  
 V. Demeter, Adriana Di Martino, Erin W Dickie, Bruno Dietsche, N. Trung Doan, Colin  
 P. Doherty, Alys Doyle, Sarah Durston, Eric Earl, Stefan Ehrlich, Carl  
 Johan Ekman, Torbjørn Elvsåshagen, Jeffery N. Epstein, Damien  
 A. Fair, Stephen Faraone, Helena Fatouros-Bergman, Guillén Fernández, Geraldo  
 Busatto Filho, Lena Flyckt, Katharina Förster, Jean-

Paul Fouche, John Foxe, Paola Fuentes-Claramonte, Janice Fullerton, Hugh Garavan, Danielle do Santos Garcia, Ian H. Gotlib, Anna E. Goudriaan, Hans Jürgen Grabe, Nynke A. Groenewold, Dominik Grotegerd, Oliver Gruber, Tiril Gurholt, Jan Haavik, Tim Hahn, Narelle K. Hansell, Mathew A. Harris, Catharina Hartman, Maria del Carmen Valdés Hernández, Dirk Heslenfeld, Robert Hester, Derrek Paul Hibar, Beng-Choon Ho, Tiffany C. Ho, PieterHoekstra, Ruth J. van Holst, Martine Hoogman, Marie F.Høvik, Fleur M. Howells, Kenneth Hugdahl, Chaim Huyser, Martin Ingvar, Lourdes Irwin, Akari Ishikawa, Anthony James, Neda Jahanshad, Terry Jernigan, Erik G Jönsson, Claas Kähler, Vasily Kaleda, Clare Kelly, Michael Kerich, Matcheri SKeshavan, Sabin Khadka, Tilo Kircher, Gregor Kohls, KerstinKonrad, Ozlem Korucuoglu, Bernd Krämer, Axel Krug, Jun Soo Kwon, Nanda Lambregts Rommelse, Mikael Landên, Luisa Lázaro, Irina Lebedeva, Rhoshel Lenroot, Klaus-PeterLesch, Qinqin Li, Kelvin O. Lim, Jia Liu, Christine Lochner, Edythe D. London, Vera Lonning, Valentina Lorenzetti, Michelle Luciano, Maartje Luijten, Astri J. Lundervold, ScottMackey, Frank P. MacMaster, Sophie Maingault, Charles B.Malpas, Ulrik F. Malt, David Mataix-Cols, Rocio Martin-Santos, Andrew R. Mayer, Hazel McCarthy, Philip B. Mitchell, Bryon A. Mueller, Susana Munoz Maniega, Bernard Mazoyer, Colm McDonald, Quinn McLellan, Katie L. McMahon, Genevieve McPhilemy, Reza Momenan, Angelica M. Morales, Janardhanan C. Narayanaswamy, José Carlos VasquesMoreira, Stener Nerland, Liam Nestor, Joel T. Nigg, Jan-EgilNordvik, Stephanie Novotny, Eileen Oberwelland, Ruth L.O'Gorman, Jaap Oosterlaan, Bob Oranje, Catherine Orr, Bronwyn Overs, Paul Pauli, Martin Paulus, Kerstin Plessen, Georg G. von Polier, Edith Pomarol-Clotet, Jiang Qiu, Joaquim Radua, Josep Antoni Ramos-Quiroga, Y.C. JanardhanReddy, Andreas Reif, Gloria Roberts, Pedro Rosa, KatyaRubia, Matthew D. Sacchet, PerminderS. Sachdev, RaymondSalvador, Lianne Schmaal, Lisanne Schwere n, Larry Seidman, Jochen Seitz, Mauricio Henriques Serpa, Philip Shaw, ElenaShumskaya, Timothy J. Silk, Alan N. Simmons, EgleSimulionyte, Rajita Sinha, Zsuzsika Sjoerds, Runar ElleSmelror, Joan Carlos Soliva, Nadia Solowij, Scott R.Sponheim, Dan J. Stein, Elliot A. Stein, Michael Stevens, Lachlan T. Strike, Gustavo Sudre, Jing Sui, Leanne Tamm, Hendrik S. Temmingh, Robert J. Thoma, AlexanderTomyshev, Giulia Tronchin, Jessica Turner, Anne Uhlmann, Theo G.M. van Erp, Odile van den Heuvel, Dennis van der Meer, Liza van Eijk, Alasdair Vance, Ilya M. Veer, Dick J.Veltman, Ganesan Venkatasubramanian, Oscar Vilarroya, Yolanda Vives-Gilabert, Aristotle N. Voineskos, Henry Völzke, Daniella Vuletic, Susanne Walitza, Henrik Walter, Esther Walton, Joanna M. Wardlaw, Wei Wen, Lars T.Westlye, Christopher D. Whelan, Tonya White, Reinout W.Wiers, Margaret J. Wright, Katharina Wittfeld, Tony T. Yang, Clarissa L. Yasuda, Yuliya Yoncheva, Murat Yücel, Je-YeonYun, Marcus Vinicius Zanetti, Zonglei Zhen, Xing-xing Zhu, Georg C. Ziegler, Kathrin Zierhut, Greig I. de Zubicaray, Marcel Zwiers, Karolinska Schizophrenia Project KaSP, David

- C. Glahn, Barbara Franke, Fabrice Crivello, NathalieTzourio-Mazoyer, Simon E. Fisher, Paul M. Thompson, Clyde Francks (2017). Mapping Cortical Brain Asymmetry in 17,141 Healthy Individuals Worldwide via the ENIGMA Consortium, submitted to *PNAS*; preprint available on bioRxiv: <https://www.biorxiv.org/content/early/2017/10/23/196634>
780. Chi-Hua Chen<sup>1</sup>, Yunpeng Wang<sup>2,3</sup>, Min-Tzu Lo<sup>1</sup>, Andrew Schork<sup>1,4</sup>, Chun-Chieh Fan<sup>1,4</sup>, Dominic Holland<sup>2</sup>, Karolina Kauppi<sup>1,5</sup>, Olav B. Smeland, Srdjan Djurovic, Nilotpal Sanyal<sup>1</sup>, Derrek P. Hibar<sup>7</sup>, **Paul M. Thompson<sup>7</sup>**, Wesley K. Thompson<sup>8</sup>, Ole A. Andreassen<sup>3</sup>, Anders Dale<sup>1,2,8</sup> (2017). Leveraging genome characteristics to improve gene discovery for putamen subcortical brain structure, *Scientific Reports*, Dec. 2017.
781. Humphreys, K. L., Watts, E. L., Dennis, E. L., King, L. S., Thompson, P. M., & Gotlib, I. H. (2018). Stressful life events, ADHD symptoms, and brain structure in early adolescence. *Journal of Abnormal Child Psychology*. In press, May 2018.
782. Emily L. Dennis<sup>1</sup>, Talin Babikian<sup>2</sup>, Christopher C. Giza<sup>3</sup>, **Paul M. Thompson<sup>1,4</sup>**, Robert F. Asarnow (2017). Neuroimaging of the Injured Pediatric Brain: Methods and New Lessons, review paper, submitted to *The Neuroscientist*, November 16 2017.
783. Tiffany C. Ho, Emily L. Dennis, Paul M. Thompson, Ian Gotlib (2018). **Network-Based Approaches to Examining Stress in the Developing Brain**, invited review article, in press, Dec. 22 2017.
784. Bhim M. Adhikari<sup>1</sup>, Neda Jahanshad<sup>2</sup>, Dinesh Shukla<sup>1</sup>, Jessica Turner<sup>3</sup>, Dominik Grotegerd<sup>4</sup>, Udo Dannlowski<sup>4</sup>, Harald Kugel<sup>5</sup>, Jennifer Engelen<sup>6</sup>, Bruno Dietsche<sup>6</sup>, Axel Krug<sup>6</sup>, Tilo Kircher<sup>6</sup>, Els Fieremans<sup>7</sup>, Jelle Veraart<sup>7</sup>, Dmitry S. Novikov<sup>7</sup>, Premika S. W. Boedhoe<sup>8</sup>, Ysbrand D. van der Werf<sup>8</sup>, Odile A. van den Heuvel<sup>8</sup>, Jonathan Ipser<sup>9</sup>, Anne Uhlmann<sup>9</sup>, Dan Stein<sup>9</sup>, Erin Dickie<sup>10</sup>, Aristotle N. Voineskos<sup>11</sup>, Anil K. Malhotra<sup>12</sup>, Fabrizio Pizzagalli<sup>2</sup>, Vince D. Calhoun<sup>13</sup>, Lea Waller<sup>14</sup>, Ilja M. Veer<sup>14</sup>, Hernik Walter<sup>14</sup>, Robert W. Buchanan<sup>1</sup>, David Glahn<sup>15</sup>, L. Elliot Hong<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Peter Kochunov<sup>\*1</sup> (2018). Comparison of heritability estimates on resting state fMRI connectivity phenotypes using the ENIGMA analysis pipeline, **Human Brain Mapping**, in press.
785. Florian Kurth<sup>1\*</sup>, Paul M. Thompson<sup>2</sup>, Eileen Luders (2017). Investigating the Differential Contributions of Sex and Brain Size on Gray Matter Asymmetry, *Cortex*, in press, Dec. 2017.
786. Baptiste Couvy-Duchesne<sup>1,2,3,\*</sup>, Lachlan T. Strike<sup>1</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>3</sup>, Paul M. Thompson<sup>5</sup>, Ian B. Hickie<sup>6</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>1,3</sup> (2017). **Lingual Gyrus surface area is associated with anxiety-depression severity in young adults: a genetic clustering approach**, in press, *eNeuro*, Dec. 25 2017.
787. Wenlu Yang, Xinyun Chen, David S Cohen, Eric R Rosin, Arthur W Toga, Paul M Thompson, Xudong Huang, for the Alzheimer's Disease Neuroimaging Initiative (2017). **Classification of MRI and psychological testing data based on support vector machine**, *Int J Clin Exp Med* 2017;10(12):16004-16026.
788. Axel Montaigne, ...Madelaine Daianu, **Paul M. Thompson**,... Berislav Zlokovic (2018). Pericyte degeneration causes white matter dysfunction in the mouse CNS, *Nature Medicine*, in press, Jan. 5 2018.
- 789. Babikian T, Alger A, Ellis M, Giza CC, Dennis E, Newman N, Kernan C, Mink R, Babbitt C, Johnson J, Thompson PM, Asarnow RF (2018). Whole brain MR spectroscopic determinants of functional outcomes in pediatric moderate/severe TBI. *J Neurotrauma*,**

## Under Review.

790. Logue MW, van Rooij SJH\*, **Dennis EL**, et al. (2018). Smaller Hippocampal Volume in Posttraumatic Stress Disorder: A Multisite ENIGMA-PGC Study: Subcortical Volumetry Results From Posttraumatic Stress Disorder Consortia. *Biological Psychiatry*, 83 (3), 244-253.
791. **Dennis EL**, Babikian T, Giza CC, Thompson PM, Asarnow RF (2017). Diffusion MRI in Pediatric Brain Injury. Invited Review for *Child's Nervous System*, 33, 1683-1692.
792. **Dennis EL**, Rashid F, Ellis MU, Babikian T, Villalon-Reina JE, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2017). Diverging white matter trajectories in children after traumatic brain injury The RAPBI study. *Neurology*, 88(15), 1392-1399.
793. **Dennis EL**, Hua X, Villalon-Reina J, Moran LM, Kernan CL, Babikian T, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2015). Tensor-based Morphometric Reveals Volumetric Deficits in Moderate/Severe Pediatric Traumatic Brain Injury. *Neurotrauma*, 32, 1-13.
794. **Dennis EL** & Thompson PM (2013). Typical and Atypical Brain Development: A Review of Neuroimaging Studies. *Dialogues in Clinical Neuroscience*, 15(3), 359-383.
795. Chen LW, Davis SL, Haswell CC, Sun D, Dennis EL, Swanson CA, Whelan CD, Gutman B, Jahanshad N, Iglesias JE, Thompson P, Wagner HR, Saemann P, LaBar KS, Morey RA (2018). Smaller Hippocampal Subfield CA1 Is Associated With Posttraumatic Stress Disorder. *Depression and Anxiety*, **Accepted**.
796. Lorenzi M<sup>\*1,2</sup>, Andre Altmann<sup>\*1</sup>, Boris Gutman<sup>3</sup>, Selina Wray<sup>4</sup>, Charlie Arber<sup>4</sup>, Derrek P. Hibar<sup>3</sup>, Neda Jahanshad<sup>3</sup>, Jonathan Schott<sup>5</sup>, Daniel C. Alexander<sup>6</sup>, **Paul M. Thompson**<sup>3</sup>, and Sebastien Ourselin<sup>1</sup> for the Alzheimer's Disease Neuroimaging Initiative (2018). **Susceptibility of brain atrophy to TRIB3 in Alzheimer's disease: evidence from functional prioritization in imaging genetics**, *PNAS*, **accepted/in press, Jan. 31 2018**.
797. Ju-Rong Ding <sup>a,b,\*</sup>; Fangmei Zhu <sup>c</sup>; Bo Hua <sup>a</sup>; Yuqiao Wen <sup>a</sup>; Wei Zeng <sup>a</sup>; Dan Chen <sup>a</sup>; Zhongxiang Ding <sup>c,\*</sup>; Paul M. Thompson <sup>b,\*</sup> (2018). Presurgical localization and spatial shift of resting state networks in patients with brain metastases, submitted to **Brain Imaging & Behavior**, in press, March 2018.
798. Ida Elken Søndersby, Ómar Gústafsson, Nhat Trung Doan, Derrek Paul Hibar, Sandra Martin-Brevet, the ENIGMA-CNV Working Group, Lars T. Westlye, Sébastien Jacquemont, Srdjan Djurovic, Hreinn Stefánsson, Kari Stefánsson, **Paul M. Thompson**, Ole A. Andreassen (2018). **Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia**, submitted to **Molecular Psychiatry**, Feb. 2018.
799. Mario F. Mendez, MD, PhD<sup>1,2,3\*</sup>, Aditi Joshi PhD<sup>1</sup>, Elvira E. Jimenez, M.P.H.<sup>3</sup>, Li-Jung Liang PhD<sup>4</sup>, Brandalyn C. Riedel, MSG<sup>5</sup>, Paul M. Thompson, Ph.D.<sup>5,6</sup> (2018). **EMPATHY VS.**



**GENERAL EMOTIONAL BLUNTING IN FRONTOTEMPORAL DEMENTIA COMPARED TO ALZHEIMER'S DISEASE AND HEALTHY CONTROLS, to be submitted, Feb. 2018.**

800. Sourena Soheili-Nezhad<sup>1,2</sup>, Alireza Sedghi<sup>3</sup>, Ferdinand Schweser<sup>4,5</sup>, Neda Jahanshad<sup>2</sup>, Amir Eslami Shahr Babaki<sup>6</sup>, Aida Tabrizi<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Mansoure Togha\*<sup>1</sup> (2018). **Structural and functional brain changes in migraine without aura: a multimodal MRI study, submitted to Pain, Feb. 2018; revised as:** Sourena Soheili-Nezhad, MD<sup>1</sup>; Alireza Sedghi, PhD<sup>2,3</sup>; Ferdinand Schweser, PhD<sup>4,5</sup>; Neda Jahanshad, PhD<sup>6</sup>; Amir Eslami Shahr Babaki, MD<sup>7</sup>; Aida Tabrizi, MD<sup>8</sup>; Emma Sprooten<sup>1</sup>, PhD; Christian F. Beckmann<sup>1</sup>, PhD; Paul M. Thompson, PhD<sup>6</sup>; Mansoure Togha, MD\*<sup>8</sup> **Structural and functional alterations of the visual cortex and the default mode network in migraine, Frontiers in Neurology, April 2019, in press.**
801. The ENIGMA and IOCDF-GC Consortium, Derrek P. Hibar<sup>1</sup>, Sarah E. Medland<sup>2</sup>, IOCDF-GC, ENIGMA2, Evelyn Stewart<sup>3,4,5</sup>, Odile A. van den Heuvel<sup>6,7</sup>, David L. Pauls<sup>3,4</sup>, James A. Knowles<sup>8\*</sup>, Dan J. Stein<sup>9\*</sup>, Paul M. Thompson (2018). **Significant concordance of the genetic variation that increases both the risk for OCD and the volumes of the nucleus accumbens and putamen, British Journal of Psychiatry, accepted, Feb. 2018.**
802. Nelly Joseph-Mathurin<sup>a</sup>, Yi Su<sup>a\*</sup>, Tyler M. Blazey<sup>a</sup>, Mateusz Jasielc<sup>b</sup>, Andrei Vlassenko<sup>a</sup>, Karl Friedrichsen<sup>a</sup>, Brian A. Gordon<sup>a</sup>, Russ C. Hornbeck<sup>a</sup>, Lisa Cash<sup>a</sup>, Beau M. Ances<sup>c</sup>, Adam M. Brickman<sup>d</sup>, Virginia Buckles<sup>c</sup>, Nigel J. Cairns<sup>c</sup>, Carlos Cruchaga<sup>e</sup>, Alison Goate<sup>f</sup>, Clifford R. Jack Jr<sup>g</sup>, Celeste Karch<sup>c</sup>, William Klunk<sup>h</sup>, Robert A. Koeppe<sup>i</sup>, Daniel S. Marcus<sup>a</sup>, Richard Mayeux<sup>d</sup>, Eric McDade<sup>c</sup>, John Ringman<sup>j</sup>, Andrew J. Saykin<sup>k</sup>, Paul M. Thompson<sup>l</sup>, Chengjie Xiong<sup>b</sup>, John C. Morris<sup>c</sup>, Randall J. Bateman<sup>c</sup>, Tammie LS. Benzinger<sup>a</sup>, and the Dominantly Inherited Alzheimer Network (2018). **Utility of perfusion PET measures to assess neuronal injury in Alzheimer's disease, submitted to Alzheimer's & Dementia, April 17 2018.**
803. Bhim M. Adhikari<sup>1</sup>, L. Elliot Hong<sup>1</sup>, Hemalatha Sampath<sup>1</sup>, Joshua Chiappelli<sup>1</sup>, Neda Jahanshad<sup>2</sup>, Paul M. Thompson<sup>2</sup>, Laura M. Rowland<sup>1</sup>, Xiaoming Du<sup>1</sup>, Shuo Chen<sup>1</sup>, Peter Kochunov\*<sup>1</sup> (2018). **Functional Network Connectivity Impairments and Core Cognitive Deficits in Schizophrenia, submitted to Biological Psychiatry, June 2018.**
804. Brandalyn C. Riedel<sup>1</sup>, Madelaine Daianu<sup>1</sup>, Greg Ver Steeg<sup>2</sup>, Adam Mezher<sup>1,†</sup>, Lauren E. Salminen<sup>1</sup>, Aram Galstyan<sup>2</sup>, Paul M. Thompson for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2018). **Uncovering Biologically Coherent Peripheral Signatures of Health and Risk for Alzheimer's Disease in the Aging Brain, to be submitted to Frontiers in Aging Neuroscience, May 2018.**
805. Mary Mufford, Neda Jahanshad, Josh Cheung, Celia van der Merwe, Nynke Groenewold, Nastassja Koen, Emile Chimusa, Shareefa Dalvie, Raj Ramesar, ENIGMA Consortium, PGC-TS Consortium, James A. Knowles, Christine Lochner, Derrek P. Hibar, Peristera Paschou, Odile A. van den Heuvel, Sarah E. Medland, Jeremiah Scharf, Carol Mathews, Paul M. Thompson, Dan J. Stein (2018). **CONCORDANCE OF GENETIC VARIATION THAT INCREASES RISK FOR TOURETTE'S DISORDER AND THAT INFLUENCES ITS UNDERLYING NEUROCIRCUITRY, to be submitted, June 2018.**
806. Dominic Holland\*, Oleksandr Frei, Chun-Chieh Fan, Alexey A. Shadrin, Olav B. Smeland, V. S. Sundar, Paul M. Thompson, Ole A. Andreassen, Anders M. Dale (2020). Beyond SNP Heritability:

Polygenicity and Discoverability Estimated for Multiple Phenotypes with a Univariate Gaussian Mixture Model, *PLoS Genet* 16(5): e1008612, May 2020. <https://doi.org/10.1371/journal.pgen.1008612>; pre-print also posted to *bioRxiv*, June 2018.

807. Daniel Moyer, **Paul M. Thompson**, Greg ver Steeg (2018). Measures of Tractography Convergence, posted on *arXiv*, June 12 2018 - <https://arxiv.org/pdf/1806.04634.pdf>
808. Bingxin Zhao, Joseph **Paul M. Thompson**, Ibrahim, Yun Li, Tengfei Li, Yue Wang, Yue Shan, Ziliang Zhu, Fan Zhou, Jingwen Zhang, Chao Huang, Huiling Liao, Liuqing Yang, **Paul M. Thompson**, Hongtu Zhu (2018). Heritability of regional brain volumes in large-scale neuroimaging and genetic studies, *Cerebral Cortex*, in press, June 2018, preprint available on *bioRxiv*: <https://www.biorxiv.org/content/early/2017/10/25/208496>
809. Gullett, Joseph; Lamb, Damon; Porges, Eric; Woods, Adam; Rieke, Jake; **Thompson, Paul**; Jahanshad, Neda; Nir, Talia; Tashima, Karen; Cohen, Ronald (2018). The Impact of Alcohol Use on Frontal White Matter in HIV, **Alcoholism: Clinical and Experimental Research (ACER)**, accepted, June 24 2018.
810. Kuhn, Taylor; Jin, Yan; Huang, Chao; Kim, Yeun; Nir, Talia; Gullett, Joseph; Jones, Jacob; Sayegh, Phillip; Chung, Caroline; Dang, Bianca; Singer, Elyse; Shattuck, David; Jahanshad, Neda; Bookheimer, Susan; Hinkin, Charles; Zhu, Hongtu; Thompson, Paul; Thames, April (2019). The Joint Effect of Aging and HIV Infection on Microstructure of White Matter Bundles, **submitted to Human Brain Mapping, April 16 2019.**
811. Martine Hoogman\*, Ryan Muetzel\*, Joao Guimaraes, Elena Shumskaya, Maarten Mennes, Marcel Zwiers, .....[many cohort authors]....., Neda Jahanshad, **Paul M. Thompson**, Jan Buitelaar, Stephen V. Faraone, Philip Shaw, Henning Tiemeier, Janita Bralten, Barbara Franke for the ENIGMA-ADHD Working Group (2018). **Brain imaging of the cortex in ADHD: A coordinated international analysis of large-scale clinical and population-based samples, to be submitted, July 17 2018.**
812. Lucy S. King<sup>1\*</sup>, Emily L. Dennis<sup>2\*</sup>, Kathryn L. Humphreys<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Ian H. Gotlib<sup>1</sup> (2018). **Family income, psychopathology, and brain structure in early adolescent boys and girls, to be submitted to Nature Neuroscience, July 2018.**
813. Lachlan T. Strike<sup>1</sup>, Narelle K. Hansell<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Katie L. McMahon<sup>4</sup>, Brendan P. Zietsch<sup>5†</sup>, Margaret J. Wright<sup>1†</sup> (2018). **Absolute and relative estimates of genetic and environmental variance in brain structure volumes, to be submitted to Proceedings of the Royal Society B: Biological Sciences, August 2018.**
814. Aaron Carass, Jennifer L. Cuzzocreo, Shuo Han, Carlos R. Hernandez-Castillo, Paul E. Rasser, Melanie Ganz, Vincent Beliveau, Jose Dolz, Ismail Ben Ayed, Christian Desrosiers, Benjamin Thyreau, José E. Romero, Pierrick Coupé José V. Manjón, Vladimir S. Fonov, D. Louis Collins, Sarah H. Ying, Deana Crocetti, Bennett A. Landman, Stewart H. Mostofsky, **Paul M. Thompson**, and Jerry L. Prince (2018). Comparing fully automated state-of-the-art cerebellum parcellation from magnetic resonance images, **NeuroImage**, accepted, August 2018.
815. Julio E. Villalón-Reina<sup>1</sup>, Kenia Martínez<sup>2</sup>, Xiaoping Qu<sup>1</sup>, Christopher Ching<sup>1,3</sup>, Talia M. Nir<sup>1</sup>, Deydeep Kothapalli<sup>1</sup>, Conor Corbin<sup>1</sup>, Daqiang Sun<sup>3,4</sup>, Amy Lin<sup>3</sup>, Jennifer K. Forsyth<sup>3,5</sup>, Leila Kushan<sup>3</sup>, Ariana Vajdi<sup>3</sup>, Maria Jalbrzikowski<sup>6</sup>, Laura Hansen<sup>3</sup>, Rachel K. Jonas<sup>3</sup>, Therese van Amelsvoort<sup>3</sup>, Geor Bakker<sup>6</sup>, Wendy R. Kates<sup>3</sup>, Kevin M. Antshel<sup>10</sup>, Wanda Fremont<sup>3</sup>, Linda E.

- Campbell<sup>11</sup>, Kathryn L. McCabe<sup>12</sup>, Eileen Daly<sup>13</sup>, Maria Gudbrandsen<sup>13</sup>, Clodagh Murphy<sup>13</sup>, Declan Murphy<sup>13</sup>, Michael Craig<sup>14</sup>, Beverly Emanuel<sup>15</sup>, Donna McDonald-McGinn<sup>15</sup>, Jacob Vorstman<sup>16</sup>, Ania Fiksinski<sup>16</sup>, Sanne Koops<sup>16</sup>, Kosha Ruparel<sup>17</sup>, David Roalf<sup>17</sup>, Raquel E. Gur<sup>18</sup>, J. Eric Schmitt<sup>19</sup>, Tony J. Simon<sup>20</sup>, Naomi J. Goodrich-Hunsaker<sup>20,21</sup>, Courtney A. Durdle<sup>20</sup>, Joanne Doherty<sup>22,23</sup>, Adam C. Cunningham<sup>22</sup>, Marianne van den Bree<sup>22</sup>, David E. J. Linden<sup>22,23</sup>, Michael Owen<sup>22</sup>, Hayley Moss<sup>22</sup>, Sinead Kelly<sup>24</sup>, Gary Donohoe<sup>25</sup>, Kieran C. Murphy<sup>26</sup>, Celso Arango<sup>2</sup>, Neda Jahanshad<sup>1</sup>, Paul M. Thompson<sup>1,7</sup>, Carrie E. Bearden<sup>3,5</sup> (2018). **Altered White Matter Microstructure in 22q11.2 Deletion Syndrome: A Multi-Site Diffusion Tensor Imaging Study, submitted to Molecular Psychiatry, August 8 2018.**
816. Laura S. van Velzen<sup>1\*</sup>, Sinead Kelly<sup>2,3\*</sup>, Dmitry Isaev<sup>3</sup>, Lyubomir I. Aftanas, Jochen Bauer, Bernhard T. Baune, Ivan V. Brak, Colm G. Connolly, Baptiste Couvy-Duchesne, Kathryn R. Cullen, Konstantin V. Danilenko, Udo Dannlowski, Verena Enneking, Elena Filimonova, Katharina Forster, Thomas Frodl, Ian H. Gotlib, Nynke A. Groenewold, Dominik Grotegerd, Matthew A. Harris, Sean N. Hatton, Ian B. Hickie, Tiffany C. Ho, Andreas Jansen, Tilo Kircher, Bonnie Klimes-Dougan, Axel Krug, Jim Lagopoulos, Renick Lee, Tristram A. Lett, Meng Li, Frank P. MacMaster, Nicholas G. Martin, Andrew M. McIntosh, Quinn McLellan, Susanne Meinert, Igor Nenadic, Evgeny Osipov, Brenda W.J.H. Penninx, Maria J. Portella, Jonathan Repple, Annerine Roos, Matthew D. Sacchet, Knut Schnell, Kang Sim, Dan J. Stein, Marie-Jose van Tol, Alexander S. Tomyshev, Ilya M. Veer, Robert Vermeiren, Yolanda Vives-Gilabert, Henrik Walter, Martin Walter, Nic J.A. van der Wee, Steven J.A. van der Werff, Melinda Westlund Schreiner, Heather C. Whalley, Margaret J. Wright, Tony T. Yang, Alyssa Zhu, Dick J. Veltman<sup>1</sup>, Paul M. Thompson<sup>3</sup>, Neda Jahanshad<sup>3#</sup>, Lianne Schmaal<sup>4,5#</sup> (2018). **White matter abnormalities in major depression in 2,907 individuals: Findings from the ENIGMA Major Depressive Disorder working group, submitted to Molecular Psychiatry, Aug. 2018.**
817. [Nir TM<sup>1</sup>](#), [Jahanshad N<sup>1</sup>](#), [Villalon-Reina JE<sup>1</sup>](#), [Isaev D<sup>1</sup>](#), [Zavaliangos-Petropulu A<sup>1</sup>](#), [Zhan L<sup>2</sup>](#), [Leow AD<sup>3</sup>](#), [Jack CR Jr<sup>4</sup>](#), [Weiner MW<sup>5</sup>](#), [Thompson PM<sup>1</sup>](#); [Alzheimer's Disease Neuroimaging Initiative \(ADNI\)](#) (2017). Fractional anisotropy derived from the diffusion tensor distribution function boosts power to detect Alzheimer's disease deficits. [Magn Reson Med](#). 2017 Dec;78(6):2322-2333. doi: 10.1002/mrm.26623. Epub 2017 Mar 7.
818. Peter Kochunov; Binish Patel; Habib Ganjgahi; Brian Donohue; Meghann Ryann; Elliot L Hong; Xu Chen; Bhim Adhikari; Neda Jahanshad; Paul Thompson; Dennis Van 't Ent; Anouk den Braber; Eco de Geus; R Brouwer; Dorret Boomsma; Hilleke Hulshoff Pol; Greig de Zubicaray; Katie McMahon; Nick Martin; Margaret Wright; Thomas Nichols (2018). "Homogenizing estimates of heritability among SOLAR-Eclipse, OpenMx, APACE, and FPHI software packages in neuroimaging data", submitted to Neuroinformatics, Aug. 30 2018.
819. Kochunov, Peter; Donohue, Brian; Mitchel, Braxton; Ganjgahi, Habib; Adhikari, Bhim; Ryan, Meghann; Medland, Sarah; Jahanshad, Neda; Thompson, Paul; Blangero, John; Fieremans, Els; Novikov, Dmitry; Marcus, Daniel; Van Essen, David C.; Glahn, David; Hong, Elliot; Nichols, Thomas (2018). Genomic Kinship Construction to Enhance Genetic Analyses in the Human Connectome Project Data. Submitted to Human Brain Mapping, Aug. 31 2018, revised version submitted Oct 24 2018.
820. Lachlan T. Strike<sup>1</sup>, Narelle K. Hansell<sup>1</sup>, Baptiste Couvy-Duchesne<sup>1,2</sup>, Paul M. Thompson<sup>3</sup>, Greig de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>5</sup>, Margaret J. Wright (2018). **A consistent pattern of genetic parcellations of cortical surface area across three large twin datasets**, to be submitted, Sept. 2018.
821. Martine Hoogman\*, PhD1,2, Ryan Muetzel\*, PhD3,4, Joao P. Guimaraes, MSc1,5, Elena Shumskaya, PhD1,2, Maarten Mennes, PhD6, Marcel P. Zwiers, PhD5, Neda Jahanshad, PhD7, Gustavo Sudre, PhD8, Jeanette Mostert, PhD1,2, Thomas Wolfers, MSc1,2, Eric A. Earl, BSc9, Juan Carlos Soliva Vila, PhD10, Yolanda Vives-Gilabert, PhD11, Sabin Khadka, MSc12, Stephanie E. Novotny, MSc12, Catharina A. Hartman, PhD13, Dirk J. Heslenfeld, PhD14, Lizanne J.S. Schweren, PhD15, Sara Ambrosino, MD16, Bob Oranje, PhD16,

Patrick de Zeeuw, PhD16, Tiffany M. Chaim-Avancini, PhD17,18, Pedro G. P. Rosa, MD17,18, Marcus V. Zanetti, PhD17,18, Charles B. Malpas, PhD19,20,21, Gregor Kohls, PhD22, Georg G. von Polier, MD23, Jochen Seitz, MD23, Joseph Biederman, MD24,25, Alysa E. Doyle, PhD26,25, Anders M. Dale, PhD27,28, Theo G.M. van Erp, PhD29, Jeffrey N. Epstein, PhD30,31, Terry L. Jernigan, PhD32, Ramona Baur-Streubel, PhD33, Georg C. Ziegler, MD34, Kathrin C. Zierhut, PhD33, Anouk Schrantee, PhD35, Marie F. H.vik, MD36,37, Astri Johansen-Lundervold, PhD38,39, Clare Kelly, PhD40,41,42, Hazel McCarthy, PhD43,44, Norbert Skokauskas, MD, PhD43,45, Ruth L. O'Gorman Tuura, PhD46,47, Anna Calvo, MSc48, Sara Lera-Miguel, PhD49, Rosa Nicolau, BSc49, Kaylita C. Chantiluke, PhD50, Anastasia Christakou, PhD50,51, Alasdair Vance, MD52, Mara Cercignani, PhD53, Matt C. Gabel, PhD53, Philip Asherson, PhD54, Sarah Baumeister, PhD55, Daniel Brandeis, PhD55,56,57, Sarah Hohmann, MD55, Ivanei E. Bramati, PhD58, Fernanda Tovar-Moll, MD, PhD58,59, Andreas J. Fallgatter, MD60,61, Bernd Kardatzki, BSc62, Lena Schwarz, MD60, Anatoly Anikin, PhD63, Alexandr Baranov, PhD64, Tinatin Gogberashvili, PhD65, Dmitry Kapilushniy, PhD66, Anastasia Solovieva, PhD64, Hanan El Marroun, PhD3,67,68, Tonya White, MD, PhD3,69, Georgii Karkashadze, PhD65, Leyla Namazova-Baranova, PhD64, Thomas Ethofer, PhD60,62, Paulo Mattos, MD, PhD58,70, Tobias Banaschewski, MD, PhD55, David Coghill, MD52,71,72,73, Kerstin J. Plessen, MD, PhD74,75, Jonna Kuntsi, PhD54, Mitul A. Mehta, PhD76, Yannis Paloyelis, PhD76, Neil A. Harrison, PhD53,77, Mark A. Bellgrove, PhD78, Tim J. Silk, PhD52,72,79, Ana I. Cubillo, PhD50, Katya Rubia, PhD50, Luisa Lazaro, MD, PhD49,80, Silvia Brem, PhD56,81, Susanne Walitza, MD56, Thomas Frodl, MD, PhD43,82,83, Mariam Zentis, MD84, Francisco X. Castellanos, MD42,85,86, Yuliya N. Yoncheva, PhD42, Jan Haavik, MD, PhD37,39, Liesbeth Reneman, MD, PhD35,87, Annette Conzelmann, MD, PhD88,89, Klaus-Peter Lesch, MD, PhD34,90,91, Paul Pauli, PhD89, Andreas Reif, MD92, Leanne Tamm, PhD30,31, Kerstin Konrad, PhD22,93, Eileen Oberwilling Weiss, PhD94,95, Geraldo F. Busatto, PhD17,96, Mario R. Louza, MD, PhD96, Sarah Durston, PhD16, Pieter J. Hoekstra, PhD13, Jaap Oosterlaan, PhD97,98,99, Michael C. Stevens, PhD12,100, J. Antoni Ramos-Quiroga, MD, PhD101,102, Oscar Vilarroya, PhD10,103, Damien A. Fair, PhD9,104, Joel T. Nigg, PhD9,104, **Paul M. Thompson**, PhD, Jan K. Buitelaar, MD, PhD2,105, Stephen V. Faraone, PhD106, Philip Shaw, MD, PhD8, 107, Henning Tiemeier, PhD3,108, Janita Bralten, PhD1,2, Barbara Franke, PhD (2018).

Brain imaging of the cortex in ADHD: A coordinated analysis of large-scale clinical and population-based samples, submitted to the **American Journal of Psychiatry**, Sept. 7 2018.

822. Sophia Frangou<sup>1\*</sup>, Amirhossein Modabbernia<sup>1\*</sup>, Gaele E. Doucet<sup>1</sup>, Maxwell Luber<sup>1</sup>, Dominik A. Moser<sup>1</sup>, Ingrid Agartz<sup>2</sup>, Kathryn Alpert<sup>3</sup>, Sarah Baumeister<sup>4</sup>, Dorret I. Boomsma<sup>5</sup>, Stefan Borgwardt<sup>6</sup>, Rachel M. Brouwer<sup>7</sup>, Dara Cannon<sup>8</sup>, Xavier Caseras<sup>9</sup>, Annette Conzelmann<sup>10</sup>, Patricia Conrod<sup>11</sup>, Fabrice Crivello<sup>12</sup>, Erin W Dickie<sup>13</sup>, Annabella Di Giorgio<sup>14</sup>, Helena Fatouros-Bergman<sup>2</sup>, David C. Glahn<sup>15</sup>, Hans Jörgen Grabe<sup>16</sup>, Nynke Groenewold<sup>17</sup>, Dominik Grotegerd<sup>18</sup>, Patricia Gruner<sup>15</sup>, Ben J Harrison<sup>19</sup>, Sean N. Hatton<sup>20</sup>, Avram J. Holmes<sup>15</sup>, Martine Hoogman<sup>21</sup>, Hilleke E. Hulshoff Pol<sup>7</sup>, Chaim Huyser<sup>22</sup>, Anthony James<sup>23</sup>, Sam Kang<sup>24</sup>, Marieke Klein<sup>21</sup>, Laura Koenders<sup>22</sup>, Bernd Krämer<sup>25</sup>, Jonna Kuntsi<sup>26</sup>, Luisa Lazaro<sup>27</sup>, David Mataix-Cols<sup>2</sup>, Andrew McIntosh<sup>28</sup>, Jill Naaijen<sup>21</sup>, Tomohiro Nakao<sup>29</sup>, Lars Nyberg<sup>30</sup>, Maria Portella<sup>31</sup>, Iris Sommer<sup>7</sup>, Joaquim Radua<sup>32</sup>, Roberto Roiz-Santiañez<sup>33,34</sup>, Pedro Rosa<sup>35</sup>, Matthew D. Sacchet<sup>36</sup>, Theodore D. Satterthwaite<sup>37</sup>, Lianne Schmaal<sup>5</sup>, Gunter Schumann<sup>26</sup>, Andy Simmons<sup>26</sup>, Carles Soriano-Mas<sup>38</sup>, Lachlan Strike<sup>39</sup>, Christian Krog Tamnes<sup>40</sup>, Alexander Tomyshev<sup>41</sup>, Jessica A. Turner<sup>42</sup>, Dennis van 't Ent<sup>5</sup>, Ilya M. Veer<sup>43</sup>, Theo G.M. van Erp<sup>44</sup>, Bernd Weber<sup>45</sup>, Wei Wen<sup>46,47</sup>, John D. West<sup>48</sup>, Lars T. Westlye<sup>40,49</sup>, Katharina Wittfeld<sup>15</sup>, Margaret J. Wright<sup>50</sup>, Kun Yang<sup>51</sup>, [...], Neda Jahanshad, Paul Thompson<sup>52</sup>, Danai Dima for the ENIGMA Lifespan Working Group (2018). **Cortical Thickness Trajectories across the lifespan: Data from 14,600 healthy individuals aged 5-90 years**, to be submitted to **Human Brain Mapping**, Sept. 2018.

823. Philipp G. Sämann<sup>1</sup>, Juan Eugenio Iglesias<sup>2</sup>, Michael Czisch<sup>1</sup>, Boris Gutman<sup>3</sup>, Dominik Grotegerd<sup>8</sup>, Ramona Leenings<sup>8</sup>, Claas Kähler<sup>8,9</sup>, Udo Dannlowski<sup>8</sup>, Theo G.M. van Erp<sup>5</sup>, Christopher D. Whelan<sup>4</sup>, Laura K.M. Han<sup>6</sup>, Laura S. van Velzen<sup>6</sup>, J.C. Augustinack<sup>7</sup>, Paul M. Thompson<sup>4</sup>, Neda Jahanshad<sup>4</sup>, Lianne Schmaal (2018). **FreeSurfer based segmentation of hippocampal subfields: a review of methods and applications, with a novel quality control procedure and usefulness for ENIGMA studies and other collaborative efforts**, submitted, Sept. 2018.

824. Katrina L. Grasby<sup>1\*</sup>, Neda Jahanshad<sup>2\*</sup>, Jodie N. Painter<sup>1</sup>, Lucía Colodro-Conde<sup>1</sup>, Janita Bralten<sup>3,4</sup>, Derrek P. Hibar<sup>2,5</sup>, Penelope A. Lind<sup>1</sup>, Fabrizio Pizzagalli<sup>2</sup>, Christopher R.K. Ching<sup>2,6</sup>, Mary Agnes B. McMahon<sup>2</sup>, Natalia Shatikhina<sup>2</sup>, Leo C.P. Zsembik<sup>7</sup>, Ingrid Agartz<sup>8,9,10,11</sup>, Saud Alhusaini<sup>12,13</sup>, Marcio A.A. Almeida<sup>14</sup>, Dag Alnæs<sup>8,9</sup>, Inge K. Amlien<sup>15</sup>, Micael Andersson<sup>16,17</sup>, Tyler Ard<sup>18</sup>, Nicola J. Armstrong<sup>19</sup>, Allison Ashley-Koch<sup>20</sup>, Manon Bernard<sup>21</sup>, Rachel M. Brouwer<sup>22</sup>, Elizabeth E.L. Buimer<sup>22</sup>, Robin Bülow<sup>23</sup>, Christian Bürger<sup>24</sup>, Dara M. Cannon<sup>25</sup>, Mallar Chakravarty<sup>26,27</sup>, Qiang Chen<sup>28</sup>, Joshua W. Cheung<sup>2</sup>, Baptiste Couvy-Duchesne<sup>29,30,31</sup>, Anders M. Dale<sup>32,33</sup>, Shareefa Dalvie<sup>34</sup>, Tânia K. de Araujo<sup>35</sup>, Greig I. de Zubicaray<sup>36</sup>, Sonja M.C. de Zwart<sup>22</sup>, Anouk den Braber<sup>37,38</sup>, Nhat Trung Doan<sup>8,9</sup>, Katharina Dohm<sup>24</sup>, Stefan Ehrlich<sup>39</sup>, Hannah-Ruth Engelbrecht<sup>40</sup>, Susanne Erk<sup>41</sup>, Chun Chieh Fan<sup>42</sup>, Iryna O. Fedko<sup>37</sup>, Sonya F. Foley<sup>43</sup>, Judith M.

Ford<sup>44</sup>, Masaki Fukunaga<sup>45</sup>, Melanie E. Garrett<sup>20</sup>, Tian Ge<sup>46,47</sup>, Sudheer Giddaluru<sup>48</sup>, Aaron L. Goldman<sup>28</sup>, Nynke A. Groenewold<sup>34</sup>, Dominik Grotegerd<sup>24</sup>, Tiril P. Gurholt<sup>8,9,10</sup>, Boris A. Gutman<sup>2,49</sup>, Narelle K. Hansell<sup>31</sup>, Mathew A. Harris<sup>50,51</sup>, Marc B. Harrison<sup>2</sup>, Courtney C. Haswell<sup>52,53</sup>, Michael Hauser<sup>20</sup>, Dirk J. Heslenfeld<sup>54</sup>, David Hoehn<sup>55</sup>, Laurena Holleran<sup>25</sup>, Martine Hoogman<sup>3,4</sup>, Jouke-Jan Hottenga<sup>37</sup>, Masashi Ikeda<sup>56</sup>, Deborah Janowitz<sup>57</sup>, Iris E. Jansen<sup>58,59</sup>, Tianye Jia<sup>60,61,62</sup>, Christiane Jockwitz<sup>63,64,65</sup>, Ryota Kanai<sup>66,67,68</sup>, Sherif Karama<sup>69,70,26</sup>, Dalia Kasperaviciute<sup>71</sup>, Tobias Kaufmann<sup>8,9</sup>, Sinead Kelly<sup>72,73</sup>, Masataka Kikuchi<sup>74</sup>, Marieke Klein<sup>3,4,22</sup>, Michael Knapp<sup>75</sup>, Annchen R. Knodt<sup>76</sup>, Bernd Krämer<sup>77,78</sup>, Thomas M. Lancaster<sup>43,79</sup>, Phil H. Lee<sup>46,80</sup>, Tristram A. Lett<sup>41</sup>, Lindsay B. Lewis<sup>81,70</sup>, Iscia Lopes-Cendes<sup>35,82</sup>, Michelle Luciano<sup>83,84</sup>, Fabio Maciardi<sup>85</sup>, Andre F. Marquand<sup>86,4</sup>, Samuel R. Mathias<sup>87,88</sup>, Tracy R. Melzer<sup>89,90,91</sup>, Yuri Milaneschi<sup>92</sup>, Nazanin Mirza-Schreiber<sup>55</sup>, Jose C.V. Moreira<sup>82,93</sup>, Thomas W. Mühleisen<sup>63,94,95</sup>, Bertram Müller-Myhsok<sup>55,96,97</sup>, Pablo Najt<sup>25</sup>, Soichiro Nakahara<sup>85,98</sup>, Kwangsik Nho<sup>99</sup>, Loes M. Olde Loohuis<sup>100</sup>, Dimitri Papadopoulos Orfanos<sup>101</sup>, John F. Pearson<sup>102,103</sup>, Toni L. Pitcher<sup>89,90,91</sup>, Benno Pütz<sup>55</sup>, Anjanibhargavi Ragothaman<sup>2</sup>, Faisal M. Rashid<sup>2</sup>, Ronny Redlich<sup>24</sup>, Céline S. Reinbold<sup>94,104</sup>, Jonathan Repple<sup>24</sup>, Geneviève Richard<sup>8,9,105,106</sup>, Brandalyn C. Riedel<sup>2,99</sup>, Shannon L. Risacher<sup>99</sup>, Cristiane S. Rocha<sup>35,82</sup>, Nina Roth Mota<sup>3,107,4</sup>, Lauren Salminen<sup>2</sup>, Arvin Saremi<sup>2</sup>, Andrew J. Saykin<sup>99,108</sup>, Fenja Schlag<sup>109</sup>, Lianne Schmaal<sup>110,111,112</sup>, Peter R. Schofield<sup>113,114</sup>, Rodrigo Secolin<sup>35,82</sup>, Chin Yang Shapland<sup>109</sup>, Li Shen<sup>115</sup>, Jean Shin<sup>21,116</sup>, Elena Shumskaya<sup>3,117,4</sup>, Ida E. Sønderby<sup>8,9</sup>, Emma Sprooten<sup>4</sup>, Lachlan T. Strike<sup>31</sup>, Katherine E. Tansey<sup>79</sup>, Alexander Teumer<sup>118</sup>, Anbupalam Thalamuthu<sup>119</sup>, Sophia I. Thomopoulos<sup>2</sup>, Diana Tordesillas-Gutiérrez<sup>120,121</sup>, Jessica A. Turner<sup>122,123</sup>, Anne Uhlmann<sup>34,124</sup>, Costanza Ludovica Vallerga<sup>29</sup>, Dennis van der Meer<sup>8,9</sup>, Marjolein M.J. van Donkelaar<sup>3,4</sup>, Liza van Eijk<sup>125,31</sup>, Theo G.M. van Erp<sup>85</sup>, Neeltje E.M. van Haren<sup>22,126</sup>, Daan van Rooij<sup>86,4</sup>, Marie-José van Tol<sup>127</sup>, Jan H. Veldink<sup>128</sup>, Ellen Verhoef<sup>109</sup>, Esther Walton<sup>122,129</sup>, Yunpeng Wang<sup>8,9</sup>, Joanna M. Wardlaw<sup>50,84,130</sup>, Wei Wen<sup>119</sup>, Lars T. Westlye<sup>8,9,105</sup>, Christopher D. Whelan<sup>2,12</sup>, Stephanie H. Witt<sup>131</sup>, Katharina Wittfeld<sup>132,57</sup>, Christiane Wolf<sup>133</sup>, Thomas Wolfers<sup>3</sup>, Clarissa L. Yasuda<sup>134,82</sup>, Dario Zaremba<sup>24</sup>, Zuo Zhang<sup>135</sup>, Alyssa H. Zhu<sup>2</sup>, Marcel P. Zwiers<sup>86,117,4</sup>, Eric Artiges<sup>136</sup>, Amelia A. Assareh<sup>119</sup>, Rosa Ayesa-Arriola<sup>137,121</sup>, Aysenil Belger<sup>52</sup>, Christine L. Brandt<sup>8,9</sup>, Gregory G. Brown<sup>138</sup>, Sven Cichon<sup>94,63,104</sup>, Joanne E. Curran<sup>14</sup>, Gareth E. Davies<sup>139</sup>, Franziska Degenhardt<sup>140</sup>, Bruno Dietsche<sup>141</sup>, Srđan Djurovic<sup>142,48</sup>, Colin P. Doherty<sup>143,144,145</sup>, Ryan Espiritu<sup>146</sup>, Daniel Garijo<sup>146</sup>, Yolanda Gil<sup>146</sup>, Penny A. Gowland<sup>147</sup>, Robert C. Green<sup>148,149,150</sup>, Alexander N. Häusler<sup>151,152</sup>, Walter Heindel<sup>153</sup>, Beng-Choon Ho<sup>154</sup>, Wolfgang U. Hoffmann<sup>118,132</sup>, Florian Holsboer<sup>155,55</sup>, Georg Homuth<sup>156</sup>, Norbert Hosten<sup>157</sup>, Clifford R. Jack Jr.<sup>158</sup>, MiHyun Jang<sup>146</sup>, Andreas Jansen<sup>141,159</sup>, Knut Kolskår<sup>8,9,105,106</sup>, Sanne Koops<sup>22</sup>, Axel Krug<sup>141</sup>, Kelvin O. Lim<sup>160</sup>, Jurjen J. Luykx<sup>161,22,162</sup>, Daniel H. Mathalon<sup>163,164</sup>, Karen A. Mather<sup>119,113</sup>, Venkata S. Mattay<sup>28,165,166</sup>, Sarah Matthews<sup>129</sup>, Jaqueline Mayoral Van Son<sup>137,121</sup>, Sarah C. McEwen<sup>167,168,169</sup>, Ingrid Melle<sup>8,9</sup>, Derek W. Morris<sup>25</sup>, Bryon A. Mueller<sup>160</sup>, Matthias Nauck<sup>170,171</sup>, Jan E. Nordvik<sup>106</sup>, Markus M. Nöthen<sup>140</sup>, Daniel S. O'Leary<sup>154</sup>, Nils Opel<sup>24</sup>, Marie - Laure Paillère Martinot<sup>136,172</sup>, G. Bruce Pike<sup>173</sup>, Adrian Preda<sup>174</sup>, Erin B. Quinlan<sup>135</sup>, Varun Ratnakar<sup>146</sup>, Simone Reppermund<sup>119,175</sup>, Vidar M. Steen<sup>48,176</sup>, Fábio R. Torres<sup>35,82</sup>, Dick J. Veltman<sup>92</sup>, James T. Voyvodic<sup>52</sup>, Robert Whelan<sup>177</sup>, Tonya White<sup>126,178</sup>, Hidenaga Yamamori<sup>179</sup>, Hieab H.H. Adams<sup>180,181</sup>, Joshua C. Bis<sup>182</sup>, Stephanie Debette<sup>183,184</sup>, Charles Decarli<sup>185</sup>, Myriam Fornage<sup>186</sup>, Vilmondur Gudnason<sup>187,188</sup>, Edith Hofer<sup>189,190</sup>, M. Arfan Ikram<sup>180</sup>, Lenore Launer<sup>191</sup>, W. T. Longstreth<sup>192</sup>, Oscar L. Lopez<sup>180,193</sup>, Bernard Mazoyer<sup>194</sup>, Thomas H. Mosley<sup>195</sup>, Gennady V. Roshchupkin<sup>180,193,181</sup>, Claudia L. Satizabal<sup>196,197,198</sup>, Reinhold Schmidt<sup>199</sup>, Sudha Seshadri<sup>196,198,,200</sup>, Qiong Yang<sup>201</sup>, The Alzheimer's Disease Neuroimaging Initiative#, CHARGE consortium#, EPIGEN consortium#, IMAGEN consortium#, SYS consortium#, The Parkinson's Progression Markers Initiative#, Marina K.M. Alvim<sup>134,82</sup>, David Ames<sup>202,203</sup>, Tim J. Anderson<sup>89,90,91,204</sup>, Ole A. Andreassen<sup>8,9</sup>, Alejandro Arias-Vasquez<sup>107,3,4</sup>, Mark E. Bastin<sup>50,84</sup>, Bernhard T. Baune<sup>205</sup>, John Blangero<sup>14</sup>, Dorret I. Boomsma<sup>37</sup>, Henry Brodaty<sup>119,206</sup>, Han G. Brunner<sup>3,4,207</sup>, Randy L. Buckner<sup>208,209,210</sup>, Jan K. Buitelaar<sup>86,4,211</sup>, Juan R. Bustillo<sup>212</sup>, Wiepke Cahn<sup>213</sup>, Vince Calhoun<sup>214,123</sup>, Xavier Caseras<sup>79</sup>, Svenja Caspers<sup>215,63,65</sup>, Gianpiero L. Cavalleri<sup>216,217</sup>, Fernando Cendes<sup>134,82</sup>, Benedicto Crespo-Facorro<sup>137,121</sup>, John C. Dalrymple-Alford<sup>218,90,91</sup>, Udo Dannlowski<sup>24</sup>, Eco J.C. de Geus<sup>37</sup>, Ian J. Deary<sup>84,83</sup>, Chantal Depondt<sup>219</sup>, Sylvane Desrivieres<sup>135,62</sup>, Gary Donohoe<sup>25</sup>, Thomas Espeseth<sup>105,8</sup>, Guillén Fernández<sup>86,4</sup>, Simon E. Fisher<sup>109,4</sup>, Herta Flor<sup>220</sup>, Andreas J. Forstner<sup>140,221,94,104</sup>, Clyde Francks<sup>109,4</sup>, Barbara Franke<sup>3,107,4</sup>, David C. Glahn<sup>87,88</sup>, Randy L. Gollub<sup>209,210,80</sup>, Hans J. Grabe<sup>132,57</sup>, Oliver Gruber<sup>77</sup>, Asta K. Häberg<sup>222,223</sup>, Ahmad R. Hariri<sup>76</sup>, Catharina A. Hartman<sup>224</sup>, Ryota Hashimoto<sup>225,179,226</sup>, Andreas Heinz<sup>227</sup>, Manon H.J. Hillegers<sup>126,228</sup>, Pieter J. Hoekstra<sup>224</sup>, Avram J. Holmes<sup>229,209</sup>, L. Elliot Hong<sup>230</sup>, William D. Hopkins<sup>231,232</sup>, Hilleke E. Hulshoff Pol<sup>22</sup>, Terry L. Jernigan<sup>233,42,138,33</sup>, Erik G. Jönsson<sup>11,9</sup>, René S. Kahn<sup>234,22</sup>, Martin A. Kennedy<sup>103</sup>, Tilo T.J. Kircher<sup>141</sup>, Peter Kochunov<sup>230</sup>, John B.J. Kwok<sup>235,114,113</sup>, Stephanie Le Hellard<sup>48,176</sup>, Nicholas G. Martin<sup>30</sup>, Jean- Luc Martinot<sup>136</sup>, Colm McDonald<sup>25</sup>, Katie L. McMahon<sup>236</sup>, Andreas Meyer-Lindenberg<sup>237</sup>, Rajendra A. Morey<sup>52,53</sup>, Lars Nyberg<sup>16,17,238</sup>, Jaap Oosterlaan<sup>239,240,241</sup>, Roel A.. Ophoff<sup>100</sup>, Tomas Paus<sup>242,243,244</sup>, Zdenka Pausova<sup>21,245</sup>, Brenda W.J.H. Penninx<sup>92</sup>, Tinca J.C. Polderman<sup>58</sup>, Danielle Posthuma<sup>58,246</sup>, Marcella Rietschel<sup>131</sup>, Joshua L. Roffman<sup>209</sup>, Laura M. Rowland<sup>230</sup>, Perminder S. Sachdev<sup>119,247</sup>, Philipp G. Sämann<sup>55</sup>, Gunter Schumann<sup>135,62</sup>, Kang Sim<sup>248</sup>, Sanjay M. Sisodiya<sup>71,249</sup>, Jordan W. Smoller<sup>46,209,250</sup>, Iris E. Sommer<sup>251,228,127,224</sup>, Beate St Pourcain<sup>129,109,4</sup>, Dan J. Stein<sup>34,252</sup>, Arthur W. Toga<sup>18</sup>, Julian N. Trollor<sup>175,119</sup>, Nic J.A. Van der Wee<sup>253</sup>, Dennis van 't Ent<sup>37</sup>, Henry Völzke<sup>118</sup>, Henrik Walter<sup>41</sup>, Bernd Weber<sup>152,151</sup>, Daniel R. Weinberger<sup>28,254</sup>, Margaret J. Wright<sup>31,255</sup>, Juan Zhou<sup>256</sup>, Jason L. Stein<sup>7\*\*</sup>, Paul M. Thompson<sup>2\*\*</sup>, Sarah E. Medland<sup>1\*\*</sup> (2018). **The genetic architecture of the human cerebral cortex**, submitted to **Science**, under revision, Aug 13. 2019.

825.Edith Hofer\*<sup>1,2</sup>, Gennady V. Roshchupkin\*<sup>3,4</sup>, Hieab H. H. Adams\*<sup>3,5</sup>, Maria J. Knol<sup>5</sup>, Honghuang Lin<sup>6</sup>, Shuo Li<sup>7</sup>, Habil Zare<sup>8,9</sup>, Shahzad Ahmad<sup>5</sup>, Nicola J. Armstrong<sup>10</sup>, Claudia L. Satizabal<sup>30</sup>, Manon Bernard<sup>11</sup>, Joshua C. Bis<sup>12</sup>, Nathan A. Gillespie<sup>13,14</sup>, Michelle Luciano<sup>15,16</sup>, Aniket Mishra<sup>17</sup>, Markus Scholz<sup>18,19</sup>, Alexander Teumer<sup>20</sup>, Rui Xia<sup>21</sup>, Xueqiu Jian<sup>21</sup>, Thomas

H. Mosley<sup>22</sup>, Yasaman Saba<sup>23</sup>, Lukas Pirpamer<sup>1</sup>, Stephan Seiler<sup>24,25</sup>, James T. Becker<sup>26</sup>, Owen Carmichael<sup>27</sup>, Jerome I. Rotter<sup>28</sup>, Bruce M. Psaty<sup>29</sup>, Oscar L. Lopez<sup>26</sup>, Najaf Amin<sup>5</sup>, Sven J. van der Lee<sup>5</sup>, Qiong Yang<sup>7</sup>, Jayandra J. Himali<sup>7</sup>, Pauline Maillard<sup>24,25</sup>, Alexa S. Beiser<sup>7,31</sup>, Charles DeCarli<sup>24,25</sup>, Sherif Karama<sup>32</sup>, Lindsay Lewis<sup>32</sup>, Mat Harris<sup>15,33,66,67</sup>, Mark E. Bastin<sup>15,33,66,67</sup>, Ian J. Deary<sup>15,16</sup>, A. Veronica Witte<sup>34,35</sup>, Frauke Beyer<sup>34,35</sup>, Markus Loeffler<sup>18,19</sup>, Karen A. Mather<sup>36,37</sup>, Peter R. Schofield<sup>37,38</sup>, Anbupalam Thalamuthu<sup>36</sup>, John B. Kwok<sup>39,38</sup>, Margaret J. Wright<sup>40,41</sup>, David Ames<sup>42,43</sup>, Julian Trollor<sup>36,44</sup>, Jiyang Jiang<sup>36</sup>, Henry Brodaty<sup>45,36</sup>, Wei Wen<sup>36</sup>, Meike W Vernooij<sup>3,5</sup>, Albert Hofman<sup>46,5</sup>, André G. Uitterlinden<sup>5</sup>, Wiro J. Niessen<sup>47,3</sup>, Katharina Wittfeld<sup>48,49</sup>, Robin Bülow<sup>50</sup>, Uwe Völker<sup>51</sup>, Zdenka Pausova<sup>11,52</sup>, G. Bruce Pike<sup>53</sup>, Sophie Maingault<sup>54</sup>, Fabrice Crivello<sup>54</sup>, Christophe Tzourio<sup>17,76</sup>, Philippe Amouye<sup>77,78,79</sup>, Bernard Mazoyer<sup>54</sup>, Michael C. Neale<sup>13</sup>, Carol E. Franz<sup>55</sup>, Michael J. Lyons<sup>56</sup>, Matthew S. Panizzon<sup>55</sup>, Ole A. Andreassen<sup>74</sup>, Anders M. Dale<sup>75</sup>, Mark Logue<sup>57,58,7</sup>, Katrina L. Grasby<sup>59</sup>, Neda Jahanshad<sup>60</sup>, Jodie N. Painter<sup>59</sup>, Lucía Colodro- Conde<sup>59</sup>, Janita Bralten<sup>61,62</sup>, Derrek P. Hibar<sup>60,63</sup>, Penelope A. Lind<sup>59</sup>, Fabrizio Pizzagalli<sup>60</sup>, Jason L. Stein<sup>64</sup>, **Paul M. Thompson**<sup>60</sup>, Sarah E. Medland<sup>59</sup>, ENIGMA consortium, Perminder S. Sachdev<sup>36,65</sup>, William S. Kremen<sup>55</sup>, Joanna M. Wardlaw<sup>15,33,66,67</sup>, Arno Villringer<sup>34,68</sup>, Cornelia M. van Duijn<sup>5</sup>, Hans Jörgen Grabe<sup>49,48</sup>, William T. Longstreth Jr<sup>69</sup>, Myriam Fornage<sup>21</sup>, Tomas Paus<sup>70,71</sup>, Stephanie Debette<sup>17,31,72</sup>, M. Arfan Ikram<sup>3,5,73</sup>, Helena Schmidt<sup>23</sup>, Reinhold Schmidt<sup>\*\*1</sup>, Sudha Seshadri<sup>\*\*30</sup> (2018). *Genetic Determinants of Cortical Structure (Thickness, Surface Area and Volumes) among Disease Free Adults in the CHARGE Consortium*, submitted to **Nature Genetics**, June 21 2019.

826. Sabah Nisar, Ajaz A. Bhat, Sheema Hashem, Najeeb Syed, Santosh K. Yadav, Shahab Uddin, Khalid Fakhro, Puneet Bagga, Paul Thompson, Ravinder Reddy, Michael P. Frenneaux, Mohammad Haris (2020). Genetic and Neuroimaging Approaches to Understanding Post-Traumatic Stress Disorder, submitted to the **International Journal of Molecular Sciences**, April 2020.

827. Tianye Jia<sup>1</sup>, Congying Chu<sup>1</sup>, Barbara Ruggeri<sup>1</sup>, Yun Liu<sup>2</sup>, Nicola Armstrong<sup>3</sup>, Tania Carrillo<sup>4</sup>, Jingyu Liu<sup>5</sup>, Michelle Luciano<sup>6</sup>, Roberto Roiz Santiañez<sup>7</sup>, Jean Shin<sup>8</sup>, Kim Sungeun<sup>9</sup>, Daniil Sarkisyan<sup>10</sup>, Georgy Bakalkin<sup>10</sup>, Tomas Ekstrom<sup>11</sup>, Eric Artiges<sup>12</sup>, Tobias Banaschewski<sup>13</sup>, Arun L.W. Bokde<sup>14</sup>, Uli Bromberg<sup>15</sup>, Christian Büchel<sup>15</sup>, Erin Burke Quinlan<sup>1</sup>, Herta Flo<sup>16,17</sup>, Juliane H. Fröhner<sup>18</sup>, Vincent Frouin<sup>19</sup>, Hugh Garavan<sup>20</sup>, Penny Gowland<sup>21</sup>, Andreas Heinz<sup>22</sup>, Bernd Ittermann<sup>23</sup>, Neda Jahanshad<sup>34</sup>, Jean-Luc Martinot<sup>24</sup>, Frauke Nees<sup>13,16</sup>, Dimitri Papadopoulos Orfanos<sup>19</sup>, Tomáš Paus<sup>25</sup>, Luise Poustka<sup>26</sup>, Michael N. Smolka<sup>18</sup>, Henrik Walter<sup>22</sup>, Robert Whelan<sup>27</sup>, IMAGEN Consortium, Liana Apostolova<sup>28</sup>, Elisabeth Binder<sup>4</sup>, Dorret Boomsma<sup>29</sup>, Vince Calhoun<sup>5</sup>, Benedicto Crespo-Facorro<sup>7</sup>, Ian Deary<sup>6</sup>, Roel A. Ophoff<sup>30</sup>, Zdenka Pausova<sup>8</sup>, Perminder Sachdev<sup>31</sup>, Philipp Sämann<sup>4</sup>, Andrew Saykin<sup>32</sup>, Gunter Schumann<sup>1</sup>, Margaret J. Wright<sup>33</sup>, Paul M. Thompson<sup>34</sup> and Sylvane Desrivères (2019). **Epigenome-wide meta-analysis of blood DNA methylation and its association with**

**subcortical brain volumes, revised, Sept. 2019; pre-print available at:**

<https://www.biorxiv.org/content/10.1101/460444v1>

828. Peter Kochunov PhD<sup>\*1</sup>, Junchao Huang<sup>2</sup>, M.D., Song Chen<sup>2</sup>, M.D., Yanli Li<sup>2</sup>, M.D., **Shupin an, M.D., Ph.D.**, Fengmei Fan, Ph.D.<sup>2</sup>, Wei Hong<sup>2</sup>, M.D., Yunhui Wang<sup>2</sup>, B.S., Laura M. Rowland, PhD<sup>1</sup>, Anya Savransky BS<sup>1</sup>, Xiaoming Du PhD<sup>1</sup>, Joshua Chiappelli, MD<sup>1</sup>, Shuo Chen<sup>1</sup>, Neda Jahanshad<sup>3</sup>, **Paul M. Thompson<sup>3</sup>**, Meghann Ryan MS<sup>1</sup>, Bhim Adhikari<sup>1</sup>, Hemalatha Sampath MS<sup>1</sup>, Yimin Cui<sup>4</sup>, M.D., Ph.D., Zhiren Wang<sup>2</sup>, M.D., Ph.D., Fude Yang<sup>2</sup>, M.D., Yunlong Tan<sup>\*2</sup>, M.D., Ph.D., L. Elliot Hong MD (2019). **White Matter in Schizophrenia Treatment Resistance**, *American Journal of Psychiatry*, in press, April 9 2019.
829. Mackey S and the ENIGMA Addiction Group (2018). Mega-Analysis of Grey Matter Volume in Substance Dependence: General and Substance-Specific Regional Effects, *AJP*, Oct. 19 2018.
830. Baptiste Couvy-Duchesne<sup>1,2,3</sup>, Lachlan T. Strike<sup>2</sup>, Katie L. McMahon<sup>4,5</sup>, Greig I. de Zubicaray<sup>6</sup>, **Paul M. Thompson<sup>7</sup>**, Nicholas G. Martin<sup>3</sup>, Sarah E. Medland<sup>3,#</sup>, Margaret J. Wright<sup>2,5</sup> (2018). A fast method for estimating statistical power of multivariate GWAS in real case scenarios: examples from the field of imaging genetics", *Behavior Genetics*, accepted for publication, Oct. 2018.
831. Sonja M.C. de Zwart; Rachel M. Brouwer; Ingrid Agartz; Martin Alda; André Aleman; Kathryn I. Alpert; Carrie E. Bearden; Alessandro Bertolino; Catherine Bois; Aurora Bonvino; Elvira Bramon; Elizabeth E.L. Buimer; Wiepke Cahn; Tyrone D. Cannon; Xavier Caseras; Josefina Castro-Fornieles; Qiang Chen; Yoonho Chung; Elena De la Serna; Annabella Di Giorgio; Gaëlle E. Doucet; Mehmet Cagdas Eker; Susanne Erk; Scott Fears; Sonya F. Foley; Sophia Frangou; Andrew Frankland; Janice M. Fullerton; David C. Glahn; Vina M. Goghari; Ali Saffet Gonul; Oliver Gruber; Lieuwe de Haan; Tomas Hajek; Emma L. Hawkins; Manon H.J. Hillegers; Hilleke E. Hulshoff Pol; Christina M. Hultman; Martin Ingvar; Erik G. Jönsson; Fergus Kane; Matthew Kempton; Marinka M.G. Koenis; Miloslav Kopecek; Lydia Krabbendam; Bernd Krämer; Stephen M. Lawrie; Rhoshel K. Lenroot; Machteld Marcelis; Jan-Bernard C. Marsman; Colm McDonald; Stijn Michielse; Philip B. Mitchell; Dolores Moreno; Robin M. Murray; Benson Mwangi; Pablo Najt; Emma Neilson; Jason Newport; Jim van Os; Bronwyn Overs; Aysegül Ozerdem; Marco M. Picchioni; Anja Richter; Gloria Roberts; Aybala Saricicek Aydogan; Peter R. Schofield; Fatma Simsek; Jair C. Soares; Gisela Sugranyes; Timothea Touloupoulou; Henrik Walter; Lei Wang; Daniel R. Weinberger; Nefize Yalin; Ole A. Andreassen; Christopher R.K. Ching; Theo G.M. van Erp; Jessica A. Turner; Neda Jahanshad; Paul M. Thompson; René S. Kahn; Neeltje E.M. van Haren for the ENIGMA Relatives Group (2018). The association between familial risk and brain abnormalities is disease-specific: an ENIGMA–Relatives study of schizophrenia and bipolar disorder, *submitted to Biological Psychiatry*, Nov. 13 2018.
832. Andre Altmann\*, Mina Ryten\*<sup>2</sup>, Martina Di Nunzio\*<sup>x</sup>, Teresa Ravizza\*<sup>x</sup>, Daniele Tolomeo\*<sup>x</sup>, Regina H Reynolds<sup>2</sup>, Alyma Somani, Marco Bacigaluppi\*<sup>x</sup>, Valentina Iori\*<sup>x</sup>, Juan Botia<sup>2,3</sup>, ENIGMA Epilepsy Working Group, Costin Leu, Andreja Avbersek, EpiPGX Consortium, Maria Thom, Christopher D. Whelan, Paul M. Thompson, Carrie R. McDonald, Annamaria Vezzani\*<sup>^</sup>, Sanjay M Sisodiya\*<sup>^</sup> (2019). A systems-level analysis highlights microglial activation as a modifying factor in common forms of human epilepsy, *submitted to Science Translational Medicine*, Jan. 9 2019.
833. Jantarabenjakul W, Weerasak Chonchaiya<sup>1,3</sup>, Thanyawee Puthanakit<sup>1,2</sup>, Jesdaporn Payapanon<sup>2</sup>, Tuangtip Theerawit<sup>2</sup>, Jiratchaya Sophonphan<sup>4</sup>, Montida Veeravigom<sup>1</sup>, Neda Jahanshad<sup>5</sup>, **Paul M. Thompson<sup>5</sup>**, Kathleen Malee<sup>6</sup>, Jintanat Ananworanich<sup>7,8</sup>, Chitsanu Pancharoen<sup>1,2</sup> on behalf of the DOET study (2018). **Low risk of neurodevelopmental impairment among perinatally acquired HIV infected pre-school children who received early antiretroviral treatment**, *Journal of the International AIDS Society*, April 16 2019.
834. Marieke Klein<sup>1</sup>, Raymond K. Walters<sup>2,3,4</sup>, Ditte Demontis<sup>5,6,7</sup>, Jason L. Stein<sup>8</sup>, Derrek P. Hibar<sup>9</sup>, Hieab H. Adams<sup>10,11</sup>, Janita Bralten<sup>1</sup>, Nina Roth Mota<sup>1</sup>, Russell Schachar<sup>12</sup>, Edmund Sonuga-Barke<sup>13</sup>, Manuel

- Mattheisen<sup>5,6,7</sup>, Benjamin M. Neale, Paul M. Thompson<sup>9,14</sup>, Sarah E. Medland<sup>15</sup>, Anders D. Børglum<sup>5,6,7</sup>, Stephen V. Faraone<sup>16,17</sup>, Alejandro Arias-Vasquez<sup>1,18,19#</sup>, Barbara Franke<sup>1,18#\*</sup> (2019). **Genetic markers of ADHD-related variations in intracranial volume**, *American Journal of Psychiatry*, accepted, Nov. 1 2018.
835. Leonardo Tozzi, PhD<sup>\*1,2</sup>, Lisa Garczarek<sup>\*1</sup>, Deborah Janowitz, MD<sup>3</sup>, Dan J. Stein, PhD<sup>4</sup>, Katharina Wittfeld, PhD<sup>3,5</sup>, Henrik Dobrowolny<sup>1</sup>, Jim Lagopoulos, PhD<sup>6,42</sup>, Sean N. Hatton, PhD<sup>6</sup>, Ian B. Hickie, MD<sup>6</sup>, Angela Carballo, MD<sup>7</sup>, Samantha J. Brooks, PhD<sup>4,40</sup>, Daniella Vuletic, PhD<sup>4</sup>, Anne Uhlmann, PhD<sup>4,43</sup>, Ilya M. Veer, PhD<sup>8</sup>, Henrik Walter, PhD<sup>8</sup>, Robin Bülow, MD<sup>9</sup>, Henry Völzke, MD<sup>10</sup>, Johanna König<sup>3</sup>, Knut Schnell, PhD<sup>11,44,45</sup>, Dieter Schoepf, MD, PhD<sup>12</sup>, Dominik Grotegerd, PhD<sup>13</sup>, Nils Opel, MD<sup>13</sup>, Udo Dannlowski, PhD<sup>13</sup>, Harald Kugel, PhD<sup>14</sup>, Elisabeth Schramm, PhD<sup>15,16</sup>, Carsten Konrad, MD<sup>17,18</sup>, Tilo Kircher, MD, PhD<sup>18</sup>, Dilara Jueksel, PhD<sup>18</sup>, Igor Nenadic, MD<sup>18</sup>, Axel Krug, PhD<sup>18</sup>, Tim Hahn, PhD<sup>13</sup>, Olaf Steinstraeter, PhD<sup>18,41</sup>, Ronny Redlich, PhD<sup>13</sup>, Dario Zaremba, MSc<sup>13</sup>, Bartosz Zurowski, MD<sup>19</sup>, Cynthia H.Y. Fu, PhD<sup>20,21</sup>, Danai Dima, PhD<sup>22,23</sup>, James Cole, PhD<sup>22</sup>, Hans J. Grabe, MD<sup>3</sup>, Colm G. Connolly, PhD<sup>24, 25</sup>, Tony T. Yang, MD, PhD<sup>24,26</sup>, Tiffany C. Ho, PhD<sup>24,27</sup>, Kaja Z. LeWinn, ScD<sup>24,26</sup>, Meng Li<sup>46</sup>, Nynke Groenewold, PhD<sup>4</sup>, Martin Walter, MD<sup>1,28,46</sup>, Alan N Simmons, PhD<sup>29,30</sup>, Theo G.M. van Erp, PhD<sup>31</sup>, Neda Jahanshad, PhD<sup>32</sup>, Bernhard T. Baune, PhD<sup>33</sup>, Nic J.A. van der Wee, PhD<sup>34</sup>, Marie-Jose van Tol, PhD<sup>35</sup>, Brenda W.J.H. Penninx, PhD<sup>36</sup>, Derrek P. Hibar, PhD<sup>31</sup>, Paul M. Thompson, PhD<sup>31</sup>, Dick J. Veltman, PhD<sup>36</sup>, Lianne Schmaal, PhD<sup>37,38</sup>, Thomas Frodl, MD, PhD (2018). **Interactive impact of severity of childhood maltreatment, depression and age on cortical brain structure: mega-analytic findings from a large multi-site cohort**, to be submitted to *Psychological Medicine*, Nov. 2018.
836. Xiang-Zhen Kong; Premika S.W. Boedhoe; Yoshinari Abe; Pino Alonso; Stephanie H. Ameis; Paul D. Arnold; Francesca Assogna; Justin T. Baker; Marcelo C. Batistuzzo; Francesco Benedetti; Jan C. Beucke; Irene Bollettini; Anushree Bose; Silvia Brem; Brian P. Brennan; Jan Buitelaar; Rosa Calvo; Yuqi Cheng; Kang Ik K. Cho; Sara Dallaspezia; Damiaan Denys; Benjamin A. Ely; Jamie Feusner; Kate D. Fitzgerald; Jean-Paul Fouche; Egill A. Fridgeirsson; David C. Glahn; Patricia Gruner; Deniz A. Gürsel; Tobias U. Hauser; Yoshiyuki Hirano; Marcelo Q. Hoexter; Hao Hu; Chaim Huyser; Anthony James; Fern Jaspers-Fayer; Norbert Kathmann; Christian Kaufmann; Kathrin Koch; Masaru Kuno; Gerd Kvale; Jun Soo Kwon; Luisa Lazaro; Yanni Liu; Christine Lochner; Paulo Marques; Rachel Marsh; Ignacio Martínez-Zalacain; David Mataix-Cols; Sarah E. Medland; José M. Menchón; Luciano Minuzzi; Pedro S Moreira; Astrid Morer; Pedro Morgado; Akiko Nakagawa; Takashi Nakamae; Tomohiro Nakao; Janardhanan. C. Narayanaswamy; Erika L. Nurmi; Joseph O'Neill; Jose C. Pariente; Chris Perriello; John Piacentini; Fabrizio Piras; Federica Piras; Christopher Pittenger; Y.C. Janardhan Reddy; Oana Georgiana Rus-Oswald; Yuki Sakai; Joao R. Sato; Lianne Schmaal; H. Blair Simpson; Noam Soreni; Carles Soriano-Mas; Gianfranco Spalletta; Emily R. Stern; Michael C. Stevens; S. Evelyn Stewart; Philip R. Szaszko; David F. Tolin; Aki Tsuchiyagaito; Daan van Rooij; Guido A. van Wingen; Ganesan Venkatasubramanian; Zhen Wang; Je-Yeon Yun; ENIGMA-OCD Working Group; Paul M. Thompson; Dan J. Stein; Odile A. van den Heuvel; Clyde Francks (2019). *Mapping Cortical and Subcortical Asymmetry in Obsessive-Compulsive Disorder: Findings from the ENIGMA Consortium*, submitted to *Biological Psychiatry*, Nov. 2018.
837. Hieab H.H. Adams,<sup>1,2</sup> Gennady Roshchupkin,<sup>1,2,3</sup> Charles DeCarli,<sup>4</sup> Barbara Franke,<sup>5</sup> Hans J. Grabe,<sup>6, 13</sup> Mohamad Habes,<sup>7</sup> Neda Jahanshad,<sup>8</sup> Sarah E. Medland,<sup>9</sup> Wiro Niessen,<sup>2,3</sup> Claudia Satizabal,<sup>10</sup> Reinhold Schmidt,<sup>11</sup> Sudha Seshadri,<sup>10</sup> Alexander Teumer,<sup>12</sup> Paul M. Thompson,<sup>8</sup> Meike W. Vernooij,<sup>1,2</sup> Katharina Wittfeld,<sup>6,13</sup> M. Arfan Ikram (2019). **Full Exploitation of High-Dimensionality in Brain Imaging: The JPND working group Statement and Findings**, submitted to *Alzheimer's & Dementia, Diagnosis, Assessment, and Disease Monitoring*, Nov. 26, 2018.
838. Merel C. Postema<sup>1</sup>, Daan van Rooij<sup>2</sup>, Evdokia Anagnostou<sup>3</sup>, Celso Arango<sup>4</sup>, Guillaume Auzias<sup>5</sup>, Marlene Behrmann<sup>6</sup>, Sara Calderoni<sup>7,33</sup>, Rosa Calvo<sup>8</sup>, Eileen Daly<sup>9</sup>, Christine Deruelle<sup>5</sup>, Adriana DiMartino<sup>10</sup>, Ilan Dinstein<sup>11</sup>, Sarah Durston<sup>12</sup>, Christine Ecker<sup>13,34</sup>, Stephan Ehrlich<sup>14</sup>, Damien Fair<sup>15</sup>, Jennifer Fedor<sup>16</sup>, Jackie Fitzgerald<sup>17,35</sup>, Dorothea L. Floris<sup>2</sup>, Christine M. Freitag<sup>13</sup>, Louise Gallagher<sup>17,35</sup>, David C. Glahn<sup>18,36</sup>, Ilaria Gori<sup>19</sup>, Shlomi Haar<sup>20</sup>, Liesbeth Hoekstra<sup>2,37</sup>, Neda Jahanshad<sup>21</sup>, Maria Jalbrzikowski<sup>17</sup>, Joost Janssen<sup>4</sup>, Joseph A. King<sup>14</sup>, Luisa Lázaro<sup>22</sup>, Jason Lerch<sup>23</sup>, Beatriz Luna<sup>16</sup>, Jane McGrath<sup>17</sup>, Sarah E. Medland<sup>24</sup>, Filippo



- Muratori<sup>7,33</sup>, Clodagh M. Murphy<sup>9,25</sup>, Declan G.M. Murphy<sup>38,25</sup>, Kirsten O’Hearn<sup>16</sup>, Bob Oranje<sup>12</sup>, Mara Parellada<sup>4</sup>, Olga Puig<sup>26</sup>, Alessandra Retico<sup>19</sup>, Pedro Rosa<sup>27</sup>, Katya Rubia<sup>28</sup>, Devon Shook<sup>12</sup>, Margot Taylor<sup>29</sup>, Michela Tosetti<sup>7</sup>, Gregory L. Wallace<sup>30</sup>, Fengfeng Zhou<sup>31</sup>, Paul M. Thompson<sup>32</sup>, Simon E. Fisher<sup>1</sup>, Jan K. Buitelaar<sup>2</sup>, Clyde Francks<sup>1,39\*</sup> **(2019). Altered structural brain asymmetry in Autism Spectrum Disorder: a large-scale analysis via the ENIGMA Consortium, to be submitted, Dec 15 2018.**
839. Lauren E. Salminen<sup>a</sup> (Corresponding Author), Rajendra A. Morey<sup>b,c</sup>, Brandalyn C. Riedel<sup>a,d</sup>, Neda Jahanshad<sup>a</sup>, Emily L. Dennis<sup>a,e,f</sup>, **Paul M. Thompson** (2019). Adaptive Identification of Cortical and Subcortical Imaging Markers of Early Life Stress and Posttraumatic Stress Disorder, **Journal of Neuroimaging**, in press, Jan. 16 2019.
840. Brandalyn C. Riedel<sup>1</sup>, Madelaine Daianu<sup>1</sup>, Greg Ver Steeg<sup>2</sup>, Adam Mezher<sup>1,†</sup>, Lauren E. Salminen<sup>1</sup>, Aram Galstyan<sup>2</sup>, Paul M. Thompson<sup>1,3</sup> and the Alzheimer’s Disease Neuroimaging Initiative\* (2018). Uncovering Biologically Coherent Peripheral Signatures of Health and Risk for Alzheimer’s Disease in the Aging Brain, **Frontiers in Aging Neuroscience**, Nov. 29 2018.
841. Boris A. Gutman<sup>1</sup>, Theo G.M van Erp<sup>2</sup>, Kathryn Alpert<sup>3</sup>, Dmitry Isaev<sup>1</sup>, Artemis Zavaliangos-Petropulu<sup>1</sup>, Vince Calhoun<sup>4</sup>, David C. Glahn<sup>5</sup>, Ted Satterthwaite<sup>6</sup>, Ole Andreas Andreassen<sup>7</sup>, Stefan Borgwardt<sup>8</sup>, Fleur Howells<sup>9</sup>, Aristotle Voineskos<sup>10</sup>, Joaquim Radua<sup>11</sup>, Steven G. Potkin<sup>2</sup>, Benedicto Crespo Facorro<sup>12</sup>, Li Shen<sup>13</sup>, Irina Lebedeva<sup>14</sup>, Gianfranco Spalletta<sup>15</sup>, Gary Donohoe<sup>16</sup>, Peter Kochunov<sup>17</sup>, N. Trung Doan<sup>7</sup>, Ingrid Agartz<sup>7</sup>, Fabienne Harrisberger<sup>8</sup>, Dan J. Stein<sup>9</sup>, Erin W. Dickie<sup>10</sup>, Erick Jorge Canales-Rodriguez<sup>11</sup>, Alexander J. Huang<sup>2</sup>, Roberto Roiz-Santiañez<sup>12</sup>, Shan Cong<sup>13</sup>, Alexander Tomyshev<sup>14</sup>, Fabrizio Piras<sup>15</sup>, **Paul M. Thompson**<sup>18</sup>, Jessica A. Turner<sup>14</sup> and Lei Wang<sup>3\*</sup> for the ENIGMA Schizophrenia Working Group (2019). A Meta-Analysis of Deep Brain Structural Shape Abnormalities in 2,763 Individuals with Schizophrenia Compared to 3,768 Healthy Volunteers via the ENIGMA Consortium, to be submitted to **Molecular Psychiatry**, Feb. 2018.
842. Tiffany C. Ho<sup>\*</sup>, Boris A. Gutman<sup>\*</sup>, Elena Pozzi, Hans J. Grabe, Katharina Wittfeld, Udo Dannlowski, Bernhard Baune, Axel Krug, Tilo Kircher, Dick Veltman, Henrik Walter, Ilya Veer, Ian H. Gotlib, Matthew D. Sacchet, Nynke Groenewold, Andrée Aleman, Martin Walter, Meng Li, Neda Jahanshad, Paul M. Thompson, Philipp G. Sämann#, Lianne Schmaal# (2019). **Subcortical Shape Alterations in Major Depressive Disorder: Findings from the ENIGMA Major Depressive Disorder Working Group**, submitted to **Biological Psychiatry**, Jan. 2019, also posted on bioRxiv. <https://www.biorxiv.org/content/10.1101/534370v1>
843. Jean-Paul Fouché<sup>1</sup>, Nynke Groenewold<sup>1</sup>, Sarah Heany<sup>1</sup>, Christine Lochner<sup>2</sup>, Pino Alonso<sup>3,4,5</sup>, Geraldo F. Busatto<sup>6</sup>, Narcis Cardoner<sup>3,4</sup>, Danielle C. Cath<sup>7</sup>, Christopher Ching<sup>8</sup>, Damiaan Denys<sup>9</sup>, Kenji Fukui<sup>10</sup>, Boris Gutman<sup>8</sup>, Marcelo Q. Hoexter<sup>11,12</sup>, Neda Jahanshad<sup>8</sup>, Joon Hwan Jang<sup>13</sup>, Wi Hoon Jung<sup>13,14</sup>, Sung Nyun Kim<sup>13</sup>, Jun Soo Kwon<sup>13,14</sup>, David Mataix-Cols<sup>15</sup>, Jose M. Menchon<sup>3,4</sup>, Euripedes C. Miguel<sup>6</sup>, Takashi Nakamae<sup>16</sup>, Jin Narumoto<sup>16</sup>, Seiji Nishida<sup>16</sup>, Mary L. Phillips<sup>17</sup>, Jesus Pujol<sup>18</sup>, Peter L. Remijnse<sup>19</sup>, Yuki Sakai<sup>16</sup>, Joao R. Sato<sup>11,12</sup>, Lizanne Schweren<sup>20</sup>, Na Young Shin<sup>13</sup>, Carles Soriano-Mas<sup>3,4,5</sup>, Paul M. Thompson<sup>8</sup>, Kei Yamada<sup>21</sup>, Dick J. Veltman<sup>20</sup>, Odile A. van den Heuvel<sup>20</sup>, Dan J. Stein<sup>1,22</sup> **(2019). Shape analysis of subcortical structures in obsessive-compulsive disorder: a multi-site analysis of the OCD Brain Imaging Consortium**, to be submitted to **the British Journal of Psychiatry**, Feb. 2019.

844. Peter Kochunov<sup>1</sup>, **Paul M. Thompson**<sup>2</sup>, L. Elliot Hong (2019). Big Data Neuroimaging Studies in Schizophrenia: from Defining Reproducible Disorder Patterns to Inferring the Sources of Individual Variance. **JAMA Psychiatry**, April 2019.
845. L Holleran<sup>1</sup>, S Kelly<sup>2</sup>, I Agartz<sup>3</sup>, O Andreassen<sup>4</sup>, V Calhoun<sup>5</sup>, D Cannon<sup>1</sup>, V Carr<sup>6</sup>, A Corvin<sup>7</sup>, D Glahn<sup>8</sup>, M Green<sup>6</sup>, RC Gur<sup>9</sup>, RE Gur<sup>9</sup>, R Hashimoto<sup>10</sup>, E Hong<sup>11</sup>, C Hoschl<sup>12</sup>, F Howells<sup>13</sup>, N Jahanshad<sup>2</sup>, A James<sup>14</sup>, J Janssen<sup>15</sup>, P Kochunov<sup>11</sup>, SM Lawrie<sup>16</sup>, J Liu<sup>17</sup>, C McDonald<sup>1</sup>, D Morris<sup>1</sup>, D Mothersill<sup>1</sup>, CM Alloza<sup>16</sup>, R Ophoff<sup>18</sup>, C Pantelis<sup>6</sup>, S Potkin<sup>19</sup>, PE Rasser, D Roalf<sup>9</sup>, T Satterthwaite<sup>9</sup>, U Schall, G Spalletta<sup>20</sup>, F Spaniel<sup>12</sup>, DJ Stein<sup>13</sup>, A Uhlmann<sup>13</sup>, N van Haren<sup>18</sup>, A Voineskos<sup>21</sup>, A Zalesky<sup>6</sup>, JA Turner<sup>22</sup>, TGM van Erp<sup>19</sup>, IJ Deary<sup>23</sup>, PM Thompson<sup>4</sup>, G Donohoe (2019). **The relationship between white matter microstructure and general cognitive ability in patients with schizophrenia and healthy participants in the ENIGMA consortium, submitted to Molecular Psychiatry, Jan. 31 2019.**
846. Franklin W. Feingold<sup>\*,1</sup>, Meral A. Tubi<sup>\*,1</sup>, Kevin S. King<sup>2</sup>, Paul M. Thompson<sup>1</sup>, Meredith N. Braskie<sup>;</sup>; Alzheimer's Disease Neuroimaging Initiative (2019). White matter hyperintensities and their relation to cognition: effects of segmentation algorithm, submitted, Feb. 2019.
847. Premika S.W. Boedhoe, M.Sc., Daan van Rooij, Ph.D., Martine Hoogman, Ph.D., Jos W.R. Twisk Ph.D., Lianne Schmaal, Ph.D., Yoshinari Abe, M.D., Ph.D., Pino Alonso, M.D., Ph.D., Stephanie H. Ameis, M.D., M.Sc., Evdokia Anagnostou, M.D., Anatoly Anikin, Ph.D., Alan Anticevic, Ph.D., Celso Arango, M.D., Ph.D., Paul D. Arnold, M.D., Ph.D., Philip Aherson, Ph.D., Francesca Assogna, Ph.D., Guillaume Auzias, Ph.D., Tobias Banaschewski, M.D., Ph.D., Alexandr Baranov, Ph.D., Marcelo C. Batistuzzo, Ph.D., Sarah Baumeister, Ph.D., Ramona Baur-Streubel, Ph.D., Marlene Behrmann, Ph.D., Mark A. Bellgrove, Ph.D., Francesco Benedetti, M.D., Jan C. Beucke, Ph.D., Joseph Biederman, M.D., Irene Bolletini, Ph.D., Anushree Bose, Ph.D., Janita Bralten, Ph.D., Ivanei E. Bramati, Ph.D., Daniel Brandeis, Ph.D., Silvia Brem, Ph.D., Brian P. Brennan, M.D., M.M.Sc., Geraldo F. Busatto, Ph.D., Sara Calderoni, M.D., Ph.D., Anna Calvo, M.Sc., Rosa Calvo, M.D., Ph.D., Francisco X. Castellanos, M.D., Mara Cercignani, Ph.D., Tiffany M. Chaim-Avancini, Ph.D., Kaylita C. Chantiluke, Ph.D., Yuqi Cheng, Ph.D., Kang Ik K. Cho, Ph.D., Anastasia Christakou, Ph.D., David Coghill, M.D., Annette Conzelmann, M.D., Ph.D., Ana I. Cubillo, Ph.D., Anders M. Dale, Ph.D., Sara Dallaspezia, M.D., Eileen Daly, Ph.D., Damiaan Denys, M.D., Ph.D., Christine Deruelle, Ph.D., Adriana Di Martino, Ph.D., Ilan Dinstein, Ph.D., Alysa E. Doyle, Ph.D., Sarah Durston, Ph.D., Eric A. Earl, B.Sc., Christine Ecker, Ph.D., Steffhan Ehrlich, M.D., Ph.D., Benjamin A. Ely, B.Sc., Jeffrey N. Epstein, Ph.D., Thomas Ethofer, Ph.D., Damien A. Fair, Ph.D., Andreas J. Fallgatter, M.D., Stephen V. Faraone, Ph.D., Jennifer Fedor, B.Sc., Xin Feng, Ph.D., Jamie Feusner, M.D., Jackie Fitzgerald, Ph.D., Kate D. Fitzgerald, M.D., Jean-Paul Fouché, M.Sc., Christine M. Freitag, Ph.D., Egill A. Fridgeirsson, M.Sc., Thomas Frodl, M.D., Ph.D., Matt C. Gabel, Ph.D., Louise Gallagher, M.D., Ph.D., Tinatin Gogberashvili, Ph.D., Ilaria Gori, M.Sc., Patricia Gruner, Ph.D., Deniz A. Gürsel, M.Sc., Shlomi Haar, Ph.D., Jan Haavik, M.D., Ph.D., Geoffrey B. Hall, Ph.D., Neil A. Harrison, Ph.D., Catharina A. Hartman, Ph.D., Dirk J. Heslenfeld, Ph.D., Yoshiyuki Hirano, Ph.D., Pieter J. Hoekstra, Ph.D., Marcelo Q. Hoexter, M.D., Ph.D., Sarah Hohmann, M.D., Marie F. Høvik, M.D., Hao Hu, Ph.D., Chaim Huyser, M.D., Ph.D., Neda Jahanshad, Ph.D., Maria Jalbrzikowski, Ph.D., Anthony James, M.R.C.P., M.R.Psych., Joost Janssen, Ph.D., Fern Jaspers-Fayer, Ph.D., Terry L. Jernigan, Ph.D., Dmitry Kapilushniy, Ph.D., Bernd Kardatzki, M.Sc., Georgii Karkashadze, Ph.D., Norbert Kathmann, Ph.D., Christian Kaufmann, Ph.D., Clare Kelly, Ph.D., Sabin Khadka, M.Sc., Joseph A. King, Ph.D., Kathrin Koch, Ph.D., Gregor Kohls, Ph.D., Kerstin Kohls, Ph.D., Masaru Kuno, M.D., Ph.D., Jonna Kuntsi, Ph.D., Gerd Kvale, Ph.D., Jun Soo Kwon, M.D., Ph.D., Luisa Lázaro, M.D., Ph.D., Sara Lera-Miguel, Ph.D., Jason Lerch, Ph.D., Klaus-Peter Lesch, M.D., Ph.D., Liesbeth Hoekstra, M.Sc., Yanni Liu, Ph.D., Christine Lochner, Ph.D., Mario R. Louza, M.D., Ph.D., Beatriz Luna, Ph.D., Astri J. Lundervold, Ph.D., Charles B. Malpas, Ph.D., Paulo Marques, Ph.D., Rachel Marsh, Ph.D., Ignacio Martínez-Zalacain, M.Sc., David Mataix-Cols, Ph.D., Paulo Mattos, M.D., Ph.D., Hazel McCarthy, Ph.D., Jane McGrath, Ph.D., Mitul A. Mehta, Ph.D., José M. Menchón, M.D., Ph.D., Maarten Mennes, Ph.D., Pedro S. Moreira, M.Sc., Astrid Morer, M.D. Ph.D., Pedro Morgado, M.D., Ph.D., Jeanette Mostert, Ph.D., Filippo Muratori, Ph.D., Clodagh M. Murphy, M.R.C.Psych., Ph.D., Declan G.M. Murphy, M.D., F.R.C.Psych., Akiko Nakagawa, M.D., Ph.D., Takashi Nakamae, M.D., Ph.D., Tomohiro Nakao, M.D., Ph.D., Leyla Namazova-Baranova, Ph.D., Janardhanan. C. Narayanaswamy, M.D., Rosa Nicolau, B.Sc., Joel T. Nigg, Ph.D., Stephanie E. Novotny, M.Sc., Erika L. Nurmi, M.D., Ph.D., Eileen Oberwiedland Weiss, Ph.D., Ruth L. O'Gorman Tuura, Ph.D., Kirsten O'Hearn, Ph.D., Joseph O'Neill, Ph.D., Jaap Oosterlaan, Ph.D., Bob Oranje, Ph.D., Yannis Paloyelis, Ph.D., Mara Parellada, M.D., Ph.D., Paul Pauli, Ph.D., Chris Perriello, B.Sc., John Piacentini, Ph.D., Fabrizio Piras, Ph.D., Federica Piras, Ph.D., Kerstin J. Plessen, M.D., Ph.D., Olga Puig, Ph.D., J. Antoni Ramos-Quiroga, M.D., Ph.D., Y.C. Janardhan Reddy, M.D., Andreas Reif, M.D., Liesbeth Reneman, M.D., Ph.D., Alessandra Retico, Ph.D., Pedro G.P. Rosa, M.D., Katya Rubia, Ph.D., Oana Georgiana Rus, Ph.D., Yuki Sakai, M.D., Ph.D., Anouk Schranter, Ph.D., Lena Schwarz, M.D., Lizanne J.S. Schwaren, Ph.D., Jochen Seitz, M.D., Philip Shaw, M.D., Ph.D.,

- Devon Shook, Ph.D., Tim J. Silk, Ph.D., H. Blair Simpson, M.D., Ph.D., Norbert Skokauskas, M.D., Ph.D., Juan Carlos Soliva Vila, Ph.D., Anastasia Solovieva, Ph.D., Noam Soreni, M.D., Carles Soriano-Mas, Ph.D., Gianfranco Spalletta, M.D., Ph.D., Emily R. Stern, Ph.D., Michael C. Stevens, Ph.D., S. Evelyn Stewart, M.D., Gustavo Sudre, Ph.D., Philip R. Szeszko, Ph.D., Leanne Tamm, Ph.D., Margot J. Taylor, Ph.D., David F. Tolin, Ph.D., Michela Tosetti, Ph.D., Fernanda Tovar-Moll, M.D., Ph.D., Aki Tsuchigaito, Ph.D., Theo G.M. van Erp, Ph.D., Guido A. van Wingen, Ph.D., Alasdair Vance, M.D., Ganesan Venkatasubramanian, M.D., Ph.D., Oscar Vilarroya, Ph.D., Yolanda Vives-Gilabert, Ph.D., Georg G. von Polier, M.D., Susanne Walitza, M.D., M.Sc., Gregory L. Wallace, Ph.D., Zhen Wang, M.D., Ph.D., Thomas Wolfers, M.Sc., Yuliya N. Yoncheva, Ph.D., Je-Yeon Yun, M.D., Ph.D., Marcus V. Zanetti, Ph.D., Mariam Zentis, M.D., Fengfeng Zhou, Ph.D., Georg C. Ziegler, M.D., Kathrin C. Zierhut, Ph.D., Marcel P. Zwiers, Ph.D., the ENIGMA-ADHD working group, the ENIGMA-ASD working group, the ENIGMA-OCD working group\*, Paul M. Thompson, Ph.D., Dan J. Stein, M.D., Ph.D., Jan Buitelaar, M.D., Ph.D., Barbara Franke, Ph.D., Odile A. van den Heuvel, M.D., Ph.D. (2019). **Subcortical brain volume, regional cortical thickness and surface area variations across attention-deficit/hyperactivity disorder (ADHD), autism spectrum disorder (ASD), and obsessive-compulsive disorder (OCD): findings from the ENIGMA-ADHD, -ASD, and -OCD working groups**, *Am J Psych*, in press, March 23 2020. Pre-print on biorXiv at: <https://www.biorxiv.org/content/10.1101/673012v1>
848. Olsen A, Babikian T, Dennis EL, Ellis-Blied MU, Giza C, Marion SD, Mink R, Johnson J, Babbitt CJ, Thompson PM, Asarnow RF (2020). BOLD hyper-activations are linked to an electrophysiological measure of slow inter-hemispheric transfer time after pediatric moderate/severe traumatic brain injury, **Journal of Neurotrauma**, 2020 Jan 15;37(2):397-409.
849. Watsamon Jantarabenjakul, MD<sup>1,2</sup>, Weerasak Chonchaiya, MD<sup>1,3</sup>, Thanyawee Puthanakit, MD<sup>1,2</sup>, Tuangtip Theerawit, MPH<sup>2</sup>, Jesdaporn Payapanon, MSN<sup>2</sup>, Jiratchaya Sophonphan, MSc<sup>4</sup>, Montida Veeravigom, MD<sup>1</sup>, Neda Jahanshad, PhD<sup>5</sup>, Paul M. Thompson, PhD<sup>5</sup>, Jintanat Ananworanich, MD, PhD<sup>6,7,8</sup>, Kathleen Malee, PhD<sup>9</sup>, Chitsanu Pancharoen, MD<sup>1,2</sup> on behalf of the DOET study (2019). **Behavioral problems in perinatally HIV-infected young children with early antiretroviral therapy: Prevalence and Associated Factors**, submitted to the *Pediatric Infectious Diseases Journal (PIDJ)*, Feb. 2019.
850. Rongfeng Qi; Yifeng Luo; Li Zhang; Yifei Weng; Wesley Surento; Qiang XU; Neda Jahanshad; Lingjiang Li; Zhihong Cao; Guang Ming Lu; Paul M. Thompson (2019). **Decreased Functional Connectivity of Hippocampal Subregions and Methylation of the NR3C1 Gene in Older Chinese Adults Who Lost Their Only Child**, submitted to *Biological Psychiatry*, April 9 2019.
851. Qunxi Dong, Ph.D.; Wen Zhang, M.S.; Jianfeng Wu, B.S.; Bolun Li, M.S.; Emily H Schron, B.S.; Travis McMahon, B.S.; Jie Shi, Ph.D.; Boris A Gutman, Ph.D.; Kewei Chen, Ph.D.; Leslie C Baxter, Ph.D.; Paul M Thompson, Ph.D.; Eric M Reiman, M.D.; Richard J Caselli, M.D.; Dr. Yalin Wang (2019). Applying Surface-Based Hippocampal Morphometry to Study APOE-e4 Allele Dose Effects in Cognitively Unimpaired Subjects, *Neuroimage Clinical*, March 2, 2019, in press.
852. Sven van der Lee, Maria Knol, Ganesh Chauhan, Dr. Claudia Satizabal, Albert Smith, Dr. Edith Hofer, Dr. Joshua Bis, Dr. Derrek Hibar, Saima Hilal, Erik van den Akker, Konstantinos Arfanakis, Manon Bernard, Ms. Lisa Yanek, Mrs. Najaf Amin, Mr. Fabrice Crivello, Mr. Joshua Cheung, Dr. Tamara Harris, Miss Yasaman Saba, Oscar Lopez, Mr. Shuo Li, Dr. Jeroen Van der Grond, Dr. Lei Yu, Dr. Tomas Paus, Gennady Roshchupkin, Philippe Amouyel, Dr. Neda Jahanshad, Dr. Kent Taylor, Dr. Qiong Yang, Dr. Rasika Mathias, Dr. Stefan Böhringer, Bernard Mazoyer, Dr. Kenneth Rice, Prof. Ching-Yu Cheng, Pauline Maillard, Ms. Diana van Heemst, Dr. Tien Wong, Prof. Wiro Niessen, Dr. Alexa Beiser, Dr. Marian Beekman, Dr. Wanting Zhao, Dr. Paul Nyquist, Dr. Christopher P. Chen, Dr. Lenore Launer, Dr. Bruce Psaty, M Kamran Ikram, Dr. Meike Vernooij, Dr. Helena Schmidt, Dr. Zdenka Pausova, Dr. Diane Becker, Prof. Philip De Jager, Dr. Paul M Thompson, Prof. Cornelia van Duijn, Dr. David Bennett, P. Eline Slagboom, Dr. Reinhold

Schmidt , William Longstreth , Prof. Mohammad Arfan Ikram , Dr. Sudha Seshadri , Stéphanie Debette , Prof. Vilmundur Gudnason , Hieab H. H. Adams\*, Dr. Charles DeCarli\* (2019). **Novel genetic loci associated with brain lobar volumes**, **Nature Communications Biology**, in press, May 15 2019.

853. Bhim M. Adhikari<sup>1\*</sup>, Juergen Dukart<sup>2,5,6\*</sup>, Joerg Hipp<sup>2</sup>, Anna Forsyth<sup>3</sup>, Rebecca McMillan<sup>3</sup>, Suresh Muthukumaraswamy<sup>3</sup>, Meghann C. Ryan, MS<sup>1</sup>, L. Elliot Hong<sup>1</sup>, Neda Jahanshad<sup>4</sup>, Paul M. Thompson<sup>4</sup>, Laura M. Rowland<sup>1</sup>, Peter Kochunov (2019). "Evaluation of the Effects of Ketamine and Midazolam Using Resting State Pharmacological MRI and Comparison with Resting State Connectivity Deficits in Schizophrenia", submitted to *Neuropsychopharmacology*, April 19 2019.

854. Nir TM, Jahanshad N, Ching CRK, Cohen RA, Harezlak J, Schifitto G, Lam HY, Hua X, Zhong J, Zhu T, Taylor MJ, Campbell TB, Daar ES, Singer E, Alger JR, Thompson PM\*, Navia BA\*, for the HIVNC (2019). Progressive brain atrophy in chronically infected and treated HIV+ individuals. *Journal of NeuroVirology*, Epub ahead of print.

855. Nir TM, Fouche JP, Ananworanich J, Ances B, Boban J, Brew BJ, Chaganti J, Ching CRK, Cysique L, Gupta V, Harezlak J, Heaps J, Hinken C, Hoar J, Joska J, Kallianpur K, Kuhn T, Lebrun-Frenay C, Levine A, Mondot L, Nakamoto B, Navia B, Paul RH, Pennec X, Porges ES, Pruksakaew K, Shikuma C, Thames A, Valcour VG, Vassallo M, Woods AJ, ..., Thompson PM, Cohen RA, Stein DJ, Jahanshad N, for the ENIGMA-HIV Working Group (2019). Smaller limbic brain volumes are associated with greater immunosuppression in over 1000 HIV-infected adults across five continents: Findings from the ENIGMA-HIV Working Group. In preparation for submission to *Lancet HIV*, April 2019.

856. Dennis van der Meer, Ph.D.<sup>1,2#</sup> Ida E. Sønderby, Ph.D.<sup>1#</sup> Tobias Kaufmann, Ph.D.<sup>1</sup> G. Bragi Walters, B.Sc.Ph.D. {additional authors...}, Anders M. Dale, Ph.D., Srdjan Djurovic, Ph.D.<sup>1</sup> Ingrid Agartz, M.D. Ph.D.<sup>1</sup> Lars T. Westlye, Ph.D.<sup>1,6</sup> Hreinn Stefansson, Ph.D.<sup>32</sup> Paul M. Thompson, Ph.D.<sup>4</sup> & Ole A. Andreassen, M.D. Ph.D.<sup>1\*</sup> for the ENIGMA-CNV working group (2019) "Association of copy number variation of the 15q11.2 region with cortical and subcortical morphology and cognition", for submission to *JAMA Psychiatry*, March 29 2019.

857. Chye, Yann; Mackey, Scott; Gutman, Boris; Batalla, Albert; Blaine, Sara; Brooks, Samantha; Caparelli, Elisabeth; Cousijn, Janna; Dagher, Alain; Foxe, John; Goudriaan, Anna; Hester, Robert; Hutchison, Kent; Jahanshad, Neda; Kaag, Anne Marije; Korucuoglu, Ozlem; Li, Chiang-Shan Ray; London, Edythe; Lorenzetti, Valentina; Luijten, Maartje; Martin-Santos, Rocio; Meda, Shashwath; Momenan, Reza; Morales, Angelica; Orr, Catherine; Paulus, Martin; Pearlson, Godfrey; Reneman, Liesbeth; Schmaal, Lianne; Sinha, Rajita; Solowij, Nadia; Stein, Dan; Stein, Elliot; Tang, Deborah; Uhlmann, Anne; Holst, Ruth van; Veltman, Dick; Verdejo-Garcia, Antonio; Wiers, Reinout; Yücel, Murat; Thompson, P.M.; Conrod, Patricia J.; Garavan, Hugh, (2019). "Subcortical surface morphometry in substance dependence: An ENIGMA addiction working group study", submitted to *Addiction Biology*, April 17 2019, revised version submitted, July 2019.

858. Emily L Dennis<sup>1,4</sup>, Seth G Disner<sup>5,6</sup>, Negar Fani<sup>7</sup>, Lauren E Salminen<sup>2</sup>, Mark Logue<sup>3,11</sup>, Emily K Clarke<sup>12,13</sup>, Courtney C Haswell<sup>12,13</sup>, Christopher Averill<sup>14</sup>, Lee A Baugh<sup>15-17</sup>, Jessica Bomyea<sup>18,19</sup>, Steven E Bruce<sup>20</sup>, Jiook Cha<sup>21,22</sup>, Kyle Choi<sup>23</sup>, Nicholas D Davenport<sup>5,6</sup>, Maria Densmore<sup>24,25</sup>, Stefan du Plessis<sup>26</sup>, Gina L Forster<sup>15,16,27</sup>, Jessie L Frijling<sup>28</sup>, Atila Gonenc<sup>29,30</sup>, Staci Gruber<sup>29,30</sup>, Daniel W Grupe<sup>31</sup>, Jeffrey Guenette<sup>32</sup>, Jasmeet Hayes<sup>33</sup>, David Hofmann<sup>34</sup>, Jonathan Ipser<sup>35</sup>, Tanja Jovanovic<sup>7,36</sup>, Sinead Kelly, Mitzy Kennis<sup>37,38</sup>, Philipp Kinzel<sup>1,39</sup>, Saskia BJ Koch<sup>28,40</sup>, Inga Koerte<sup>1,39</sup>, Sheri Koopowitz<sup>35</sup>, Mayuresh Korgaonkar<sup>41</sup>, John Krystal<sup>14</sup>, Lauren AM Lebois<sup>30,42</sup>, Gen Li<sup>43,44</sup>, Vincent A Magnotta<sup>45</sup>, Antje Manthey<sup>46</sup>, Geoff J May<sup>47-50</sup>, Mark Miller<sup>8,9</sup>, Laura Nawijn<sup>28,51</sup>, Steven M Nelson<sup>47,48,50</sup>, Richard WJ

Neufeld<sup>24,52</sup>, Mary R Newsome<sup>53,54</sup>, Jack B Nitschke<sup>55</sup>, Daniel O'Doherty<sup>56</sup>, Matthew Peever<sup>57</sup>, Kerry Ressler<sup>7,30,42</sup>, Annerine Roos<sup>58</sup>, Margaret A Sheridan<sup>59</sup>, Anika Sierk<sup>46</sup>, Raluca M Simons<sup>16,60</sup>, Jeffrey S Simons<sup>17,60</sup>, Jennifer Stevens<sup>7</sup>, Benjamin Suarez-Jimenez<sup>21,22</sup>, Danielle R Sullivan<sup>8,9</sup>, Jean Théberge<sup>24,25,61</sup>, Leigh van den Heuvel<sup>58</sup>, Steven JA van der Werff<sup>62,63</sup>, Wright Williams<sup>53,64</sup>, Sanne JH van Rooij<sup>7</sup>, Mirjam van Zuiden<sup>28</sup>, Carmen Velez<sup>3,65</sup>, Mieke Verfaellie<sup>9,66</sup>, Robert RJM Vermeiren<sup>62</sup>, Ben Wade<sup>3,65,67</sup>, Tor Wager<sup>68</sup>, Henrik Walter<sup>46</sup>, Sherry Winternitz<sup>30,69</sup>, Erika Wolf<sup>8,9</sup>, Jonathan Wolff<sup>42</sup>, Gerald York<sup>70,71</sup>, Ye Zhu<sup>43,44</sup>, Xi Zhu<sup>21,22</sup>, Chadi Abdallah<sup>14</sup>, Richard Bryant<sup>72</sup>, Judith Daniels<sup>73</sup>, Richard J Davidson<sup>31,55,74</sup>, Kelene A Fercho<sup>15-17</sup>, Carol Franz<sup>19,75</sup>, Elbert Geuze<sup>37,38</sup>, Evan M Gordon<sup>47,48,50</sup>, Milissa L Kaufman<sup>30,69</sup>, William Kremen<sup>18,19,75</sup>, Jim Lagopoulos<sup>56</sup>, Ruth A Lanius<sup>24,25,76</sup>, Michael J Lyons<sup>77</sup>, Stephen R McCauley<sup>78</sup>, Regina McGlinchey<sup>30,79</sup>, Katie A McLaughlin<sup>80</sup>, William Milberg<sup>30,79</sup>, Yuval Neria<sup>21,22</sup>, Miranda Olf<sup>28,81</sup>, Soraya Seedat<sup>58</sup>, Martha Shenton<sup>1,82</sup>, Scott R Sponheim<sup>5,6</sup>, Dan J Stein<sup>83</sup>, Thomas Straube<sup>34</sup>, David Tate<sup>3,65</sup>, Nic JA van der Wee<sup>62,63</sup>, Dick J Veltman<sup>51</sup>, Li Wang<sup>43,44</sup>, Elisabeth A Wilde<sup>3,54,84</sup>, Paul M Thompson<sup>2</sup>, Peter Kochunov<sup>85</sup>, Neda Jahanshad<sup>2\*</sup>, Rajendra A Morey<sup>12,13\*</sup> (2019). **Altered White Matter Microstructural Organization in Post-Traumatic Stress Disorder across 3106 Adults: Results from the PGC-ENIGMA PTSD, to be submitted, 2019.**

859. Nils Opel<sup>\*1</sup>, Anbupalam Thalamuthu<sup>2,34</sup>, Yuri Milaneschi<sup>3</sup>, Dominik Grotegerd<sup>1</sup>, Claas Kähler<sup>1</sup>, Ramona Leenings<sup>1</sup>, Klaus Berger<sup>4</sup>, Marco Hermesdorf<sup>2</sup>, Andrew McIntosh<sup>5,6</sup>, Heather Whalley<sup>5</sup>, Frank P. MacMaster<sup>7,8</sup>, Henrik Walter<sup>9</sup>, Ilya M. Veer<sup>9</sup>, Thomas Frodl<sup>10,11</sup>, Axel Krug<sup>12</sup>, Igor Nenadic<sup>12</sup>, Tilo Kircher<sup>12</sup>, Nynke A. Groenewold<sup>13,14</sup>, Andre Aleman<sup>13</sup>, Nynke A. Groenewold<sup>14</sup>, Dan J. Stein<sup>14</sup>, Jair C. Soares<sup>15</sup>, Benson Mwangi Irungu<sup>16</sup>, Martin Walter<sup>17</sup>, Meng Li<sup>18</sup>, Ben Harrison<sup>19</sup>, Christopher G. Davey<sup>19</sup>, Kathryn R. Cullen<sup>20</sup>, Philipp Saemann<sup>21</sup>, Brenda Penninx<sup>3</sup>, Laura Nawijn<sup>2</sup>, Dick J. Veltman<sup>3</sup>, Lyubomir Aftanas<sup>22,23</sup>, Evgeny Osipov<sup>22,23</sup>, Liesbeth Reneman<sup>24</sup>, Hans Grabe<sup>25</sup>, Sandra Van der Auwera<sup>25</sup>, Katharina Wittfeld<sup>25</sup>, Kang Sim<sup>26,27</sup>, Ian Gotlib<sup>28</sup>, Matthew D. Sacchet<sup>28</sup>, Jim Lagopoulos<sup>29</sup>, Sean Hatton<sup>29</sup>, Ian Hickie<sup>29</sup>, Paul M. Thompson<sup>30</sup>, Neda Jahanshad<sup>30</sup>, Lianne Schmaal<sup>31,32</sup>, Bernhard T. Baune<sup>#1, 33, 34</sup> and Udo Dannlowski<sup>#1</sup> (2019). **Corresponding patterns of brain structural abnormalities in obesity mirror findings in common neuropsychiatric disorders - Evidence through univariate and multivariate mega-analysis including 6,420 participants from the ENIGMA MDD working group, to be submitted, May 2019.**

860. Andrea Palk<sup>\* (1)</sup>, Judy Illes (2), Paul M Thompson (3), Dan J Stein (1)(4) (2019). **ETHICAL ISSUES IN GLOBAL IMAGING GENETICS COLLABORATIONS, in press, NeuroImage, July 2020.**

861. **Paul M. Thompson, PhD<sup>1</sup>, Neda Jahanshad, PhD<sup>1</sup>, Christopher R. K. Ching, PhD<sup>1</sup>, Lauren E. Salminen, PhD<sup>1</sup>, Sophia I. Thomopoulos, BA<sup>1</sup>, Joanna Bright, BSc<sup>1</sup>, Bernhard T. Baune, MD, PhD<sup>2-4</sup>, Sara Bertolin, PhD<sup>5</sup>, Janita Bralten, PhD<sup>6,7</sup>, Willem B. Bruin, PhD, Robin Bülow, MD<sup>8</sup>, Jian Chen, PhD<sup>10</sup>, Yann Chye, PhD<sup>11</sup>, Udo Dannlowski, MD PhD, Carolien G. F. de Kovel, PhD<sup>12,13</sup>, Gary Donohoe, DClinPsych, PhD<sup>14</sup>, Lisa T. Eyler, PhD<sup>15,16</sup>, Stephen V. Faraone, PhD<sup>17</sup>, Pauline Favre, PhD<sup>18,19</sup>, Courtney A. Filippi, PhD<sup>20</sup>, Thomas Frodl, PhD<sup>21-23</sup>, Daniel Garijo, PhD<sup>24</sup>, Yolanda Gil, PhD<sup>24,25</sup>, Hans J. Grabe, MD<sup>26,27</sup>, Katrina L. Grasby, PhD<sup>28</sup>, Tomas Hajek, MD, PhD<sup>29,30</sup>, Laura K. M. Han, MSc<sup>31,32</sup>, Sean N. Hatton, PhD<sup>33,34</sup>, Kevin Hilbert, PhD<sup>35</sup>, Tiffany C. Ho, PhD<sup>36,37</sup>, Laurena Holleran, PhD<sup>38</sup>, Georg Homuth, PhD<sup>39</sup>, Norbert Hosten, MD, PhD<sup>40</sup>, Josselin Houenou, MD, PhD<sup>18,19,41</sup>, Iliyan Ivanov, MD<sup>42</sup>, Tianye Jia,**

PhD<sup>43-45</sup>, Sinead Kelly, PhD<sup>46,47</sup>, Marieke Klein, PhD<sup>48,49</sup>, Jun Soo Kwon, MD<sup>50,51</sup>, Max A. Laansma MSc<sup>52</sup>, Jeanne Leerssen, MSc<sup>53</sup>, Ulrike Lueken, PhD<sup>54</sup>, Abraham Nunes, MD, MBA<sup>29,54</sup>, Joseph O'Neill, MD, MPH<sup>55</sup>, Nils Opel, MD<sup>56</sup>, Fabrizio Piras, PhD<sup>56</sup>, Federica Piras, PhD<sup>56</sup>, Merel C. Postema, MSc<sup>13</sup>, Elena Pozzi, PhD<sup>57,58</sup>, Natalia Shatokhina, MSc<sup>59</sup>, Carles Soriano-Mas, PhD<sup>5,59,60</sup>, Gianfranco Spalletta, MD<sup>56,61</sup>, Daqiang Sun, MD, PhD<sup>62,63</sup>, Alexander Teumer, PhD<sup>64</sup>, Amanda K. Tilot, PhD<sup>65</sup>, Leonardo Tozzi, MD, PhD<sup>36</sup>, Celia van der Merwe, PhD<sup>65,66</sup>, Eus J. W. Van Someren, PhD<sup>53,67</sup>, Guido A. van Wingen, PhD<sup>68</sup>, Henry Völzke, MD<sup>64,68</sup>, Esther Walton, PhD<sup>69</sup>, Lei Wang, PhD<sup>70,71</sup>, Anderson M. Winkler, MD, PhD, DPhil<sup>20</sup>, Katharina Wittfeld, PhD<sup>26,27</sup>, Margaret J. Wright, PhD<sup>72,73</sup>, Je-Yeon Yun, MD, PhD<sup>74,75</sup>, Guohao Zhang, PhD<sup>10</sup>, Yanli Zhang-James, MD, PhD<sup>76</sup>, Bhim M. Adhikari, PhD<sup>77</sup>, Ingrid Agartz, PhD<sup>78-80</sup>, Moji Aghajani, PhD<sup>32,81</sup>, André Aleman, PhD<sup>82</sup>, Robert R. Althoff, MD, PhD<sup>83</sup>, Andre Altmann, PhD<sup>84</sup>, Ole A. Andreassen, MD, PhD<sup>78,85</sup>, David A. Baron, DO, MEd<sup>86</sup>, Brenda L. Bartnik-Olson, PhD<sup>87</sup>, Janna Marie Bas-Hoogendam, MSc<sup>88-90</sup>, Arielle R. Baskin-Sommers, PhD<sup>91</sup>, Carrie E. Bearden, PhD<sup>62,92</sup>, Laura A. Berner, PhD<sup>15</sup>, Premika S. W. Boedhoe, MSc<sup>32</sup>, Rachel M. Brouwer, PhD<sup>93</sup>, Jan K. Buitelaar, PhD<sup>94</sup>, Karen Caeyenberghs, PhD<sup>95</sup>, Charlotte A. M. Cecil, PhD<sup>96,97</sup>, Ronald A. Cohen, PhD<sup>98,99</sup>, James H. Cole, PhD<sup>100</sup>, Patricia J. Conrod, PhD<sup>101</sup>, Stephane A. De Brito, PhD<sup>102</sup>, Sonja M. C. de Zwarte, MSc<sup>93</sup>, Emily L. Dennis, PhD<sup>1,103,104</sup>, Sylvane Desrivieres, PhD<sup>105</sup>, Danai Dima, PhD<sup>106,107</sup>, Stefan Ehrlich, MD<sup>108</sup>, Carrie Esopenko, PhD<sup>109</sup>, Graeme Fairchild, PhD<sup>69</sup>, Simon E. Fisher, PhD<sup>7,13</sup>, Jean-Paul Fouché, PhD<sup>110,111</sup>, Clyde Francks, PhD<sup>7,13</sup>, Sophia Frangou, PhD<sup>112</sup>, Barbara Franke, PhD<sup>6,7,113</sup>, Hugh P. Garavan, PhD<sup>114</sup>, David C. Glahn, PhD<sup>115,116</sup>, Nynke A. Groenewold, PhD<sup>110</sup>, Tiril P. Gurholt, PhD<sup>78</sup>, Boris A. Gutman, PhD<sup>117,118</sup>, Tim Hahn, PhD<sup>119</sup>, Ian H. Harding, PhD<sup>120</sup>, Dennis Hernaus, PhD<sup>121</sup>, Derrek P. Hibar, PhD<sup>122</sup>, Frank G. Hillary, PhD<sup>123,124</sup>, Martine Hoogman, PhD<sup>67</sup>, Hilleke E. Hulshoff Pol, PhD<sup>93</sup>, Maria Jalbrzikowski, PhD<sup>125</sup>, George Karkashadze, MD<sup>26</sup>, Eduard T. Klapwijk, PhD<sup>88,90</sup>, Rebecca C. Knickmeyer, PhD<sup>127-129</sup>, Peter Kochunov, PhD<sup>77</sup>, Inga K. Koerte, MD<sup>104,130</sup>, PhD, Xiang-Zhen Kong, PhD<sup>13</sup>, Sook-Lei Liew, PhD<sup>131,132</sup>, Alexander P. Lin, PhD<sup>133,134</sup>, Mark W. Logue, PhD<sup>135-137</sup>, Eileen Lueders, PhD<sup>138,139</sup>, Fabio Macciardi, MD, PhD<sup>140</sup>, Scott Mackey, PhD<sup>141</sup>, Andrew R. Mayer, PhD<sup>141</sup>, Carrie R. McDonald, PhD<sup>33,142</sup>, Agnes B. McMahon, MSc<sup>1,143</sup>, Sarah E. Medland, PhD<sup>28</sup>, Gemma Modinos, PhD<sup>144</sup>, Rajendra A. Morey, MD<sup>145,146</sup>, Sven C. Mueller, PhD<sup>147</sup>, Pratik Mukherjee, MD, PhD<sup>148</sup>, Leyla Namazova-Baranova, MD, PhD<sup>149,150</sup>, Talia M. Nir, PhD<sup>1</sup>, Alexander Olsen, PhD<sup>151,152</sup>, Peristera Paschou, PhD<sup>153</sup>, Daniel S. Pine, MD<sup>154</sup>, Fabrizio Pizzagalli, PhD<sup>1</sup>, Miguel E. Rentería, PhD<sup>155</sup>, Jonathan D. Rohrer, PhD<sup>156</sup>, Philipp G. Sämann, MD<sup>157</sup>, Lianne Schmaal, PhD<sup>58,158</sup>, Gunter Schumann, PhD<sup>45,159</sup>, Mark S. Shiroishi, MD<sup>160</sup>, Sanjay M. Sisodiya, PhD FRCP<sup>161,162</sup>, Dirk J. A. Smit, PhD<sup>32</sup>, Ida E. Sønderby, PhD<sup>78</sup>, Dan J. Stein, MD, PhD<sup>163</sup>, Jason L. Stein, PhD<sup>164</sup>, Masoud Tahmasian, MD, PhD<sup>165</sup>, David F. Tate, PhD<sup>166,167</sup>, Jessica A. Turner, PhD<sup>168</sup>, Odile A. van den Heuvel, MD, PhD<sup>32,52</sup>, Nic J. A. van der Wee, MD, PhD<sup>90,169</sup>, Ysbrand D. van der Werf, PhD<sup>52</sup>, Theo G. M. van Erp, PhD<sup>170,171</sup>, Neeltje E. M. van Haren, PhD<sup>66</sup>, Daan van Rooij, PhD<sup>172</sup>, Laura S. van Velzen, PhD<sup>58,158</sup>, Ilya M. Veer, PhD<sup>173</sup>, Dick J. Veltman, MD, PhD<sup>32</sup>, Julio E. Villalon-Reina, MD<sup>1</sup>, Henrik Walter, MD, PhD<sup>173</sup>, Christopher D. Whelan, PhD<sup>174,175</sup>, Elisabeth A. Wilde, PhD<sup>103,176,177</sup>, Mojtaba Zarei, MD, PhD, FRCP<sup>165</sup>, and Vladimir Zelman, MD, PhD<sup>178,179</sup>, for the ENIGMA Consortium (2019). **ENIGMA and Global Neuroscience: A Decade of Large-Scale Studies of the Brain in Health and Disease across 43 Countries**, submitted to *Translational Psychiatry*, June 2019.

862. Shen L, Thompson PM (2019). Imaging Genomics: Integrated Analysis & Machine Learning, submitted to the *IEEE*, June 2019, invited review paper, revised, Sept. 2019.

863. Martine Hoogman, Ryan Muetzel, Joao P Guimaraes, Elena Shumskaya, Maarten Mennes, Marcel P Zwiers, Neda Jahanshad, Gustavo Sudre, Thomas Wolfers, Eric A Earl, Juan Carlos Soliva Vila, Yolanda Vives-Gilabert, Sabin Khadka, Stephanie E Novotny, Catharina A Hartman, Dirk J Heslenfeld, Lianne JS Schweren, Sara Ambrosino, Bob Oranje, Patrick de Zeeuw, Tiffany M Chaim-Avancini, Pedro GP Rosa, Marcus V Zanetti, Charles B Malpas, Gregor Kohls, Georg G von Polier, Jochen Seitz, Joseph Biederman, Alysia E Doyle, Anders M Dale, Theo GM van Erp,

- Jeffery N Epstein, Terry L Jernigan, Ramona Baur-Streubel, Georg C Ziegler, Kathrin C Zierhut, Anouk Schrantee, Marie F Høvik, Astri J Lundervold, Clare Kelly, Hazel McCarthy, Norbert Skokauskas, Ruth L O’Gorman Tuura, Anna Calvo, Sara Lera-Miguel, Rosa Nicolau, Kaylita C Chantiluke, Anastasia Christakou, Alasdair Vance, Mara Cercignani, Matt C Gabel, Philip Asherson, Sarah Baumeister, Daniel Brandeis, Sarah Hohmann, Ivanei E Bramati, Fernanda Tovar-Moll, Andreas J Fallgatter, Bernd Kardatzki, Lena Schwarz, Anatoly Anikin, Alexandr Baranov, Tinatin Gogberashvili, Dmitry Kapilushniy, Anastasia Solovieva, Hanan El Marroun, Tonya White, Georgii Karkashadze, Leyla Namazova-Baranova, Thomas Ethofer, Paulo Mattos, Tobias Banaschewski, David Coghill, Kerstin J Plessen, Jonna Kuntsi, Mitul A Mehta, Yannis Paloyelis, Neil A Harrison, Mark A Bellgrove, Tim J Silk, Ana I Cubillo, Katya Rubia, Luisa Lazaro, Silvia Brem, Susanne Walitza, Thomas Frodl, Mariam Zentis, Francisco X Castellanos, Yuliya N Yoncheva, Jan Haavik, Liesbeth Reneman, Annette Conzelmann, Klaus-Peter Lesch, Paul Pauli, Andreas Reif, Leanne Tamm, Kerstin Konrad, Eileen Oberwelland Weiss, Geraldo F Busatto, Mario R Louza, Sarah Durston, Pieter J Hoekstra, Jaap Oosterlaan, Michael C Stevens, J Antoni Ramos-Quiroga, Oscar Vilarroya, Damien A Fair, Joel T Nigg, Paul M Thompson, Jan K Buitelaar, Stephen V Faraone, Philip Shaw, Henning Tiemeier, Janita Bralten, Barbara Franke (2019). [Brain imaging of the cortex in ADHD: a coordinated analysis of large-scale clinical and population-based samples](#), **American Journal of Psychiatry**, published, April 24 2019.
864. Xu Chen, Elia Formisano, Gabriëlla AM Blokland, Lachlan T Strike, Katie L McMahon, Greig I de Zubicaray, **Paul M Thompson**, Margaret J Wright, Anderson M Winkler, Tian Ge, Thomas E Nichols (2019). [Accelerated estimation and permutation inference for ACE modeling](#), **Human Brain Mapping**, published, April 29 2019.
865. Xiangzhen Kong, Premika SW Boedhoe, Yoshinari Abe, Pino Alonso, Stephanie H Ameis, Paul D Arnold, Francesca Assogna, Justin T Baker, Marcelo C Batistuzzo, Francesco Benedetti, Jan C Beucke, Irene Bollettini, Anushree Bose, Silvia Brem, Brian P Brennan, Jan Buitelaar, Rosa Calvo, Yuqi Cheng, Kang Ik K Cho, Sara Dallaspezia, Damiaan Denys, Benjamin A Ely, Jamie Feusner, Kate D Fitzgerald, Jean-Paul Fouché, Egill A Fridgeirsson, David C Glahn, Patricia Gruner, Deniz A Gürsel, Tobias U Hauser, Yoshiyuki Hirano, Marcelo Q Hoexter, Hao Hu, Chaim Huyser, Anthony James, Fern Jaspers-Fayer, Norbert Kathmann, Christian Kaufmann, Kathrin Koch, Masaru Kuno, Gerd Kvale, Jun Soo Kwon, Luisa Lazaro, Yanni Liu, Christine Lochner, Paulo Marques, Rachel Marsh, Ignacio Martínez-Zalacaín, David Mataix-Cols, Sarah E Medland, José M Menchón, Luciano Minuzzi, Pedro S Moreira, Astrid Morer, Pedro Morgado, Akiko Nakagawa, Takashi Nakamae, Tomohiro Nakao, Janardhanan C Narayanaswamy, Erika L Nurmi, Joseph O’Neill, Jose C Pariente, Chris Perriello, John Piacentini, Fabrizio Piras, Federica Piras, Christopher Pittenger, YC Janardhan Reddy, Oana Georgiana Rus-Oswald, Yuki Sakai, Joao R Sato, Lianne Schmaal, H Blair Simpson, Noam Soreni, Carles Soriano-Mas, Gianfranco Spalletta, Emily R Stern, Michael C Stevens, S Evelyn Stewart, Philip R Szeszko, David F Tolin, Aki Tsuchiyagaito, Daan Van Rooij, Guido A Van Wingen, Ganesan Venkatasubramanian, Zhen Wang, Je-Yeon Yun, **Paul M Thompson**, Dan J Stein, Odile A Van den Heuvel, Clyde Francks (2019). [Mapping](#)

Cortical and Subcortical Asymmetry in Obsessive-Compulsive Disorder: Findings from the ENIGMA Consortium, **Biological Psychiatry**, published, April 30 2019.

866. Andrew R Carr, Elvira E Jimenez, **Paul M Thompson**, Mario F Mendez (2019). Frontotemporal asymmetry in socioemotional behavior: A pilot study in frontotemporal dementia, **Social Neuroscience**, published, May 9 2019.
867. Zhipeng Ding, Greg Fleishman, Xiao Yang, **Paul M. Thompson**, Roland Kwitt, Marc Niethammer, and the Alzheimer's Disease Neuroimaging Initiative (2019). Fast Predictive Simple Geodesic Regression, submitted to **Medical Image Analysis**, March 23 2018; revised version submitted, Jan. 4 2019, 2<sup>nd</sup> revision submitted, May 31 2019.
868. Liza van Eijk<sup>1,2</sup>, Narelle K. Hansell<sup>2</sup>, Lachlan T. Strike<sup>2</sup>, Baptiste Couvy-Duchesne<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Greig I. de Zubicaray<sup>5</sup>, Paul M. Thompson<sup>6</sup>, Katie L. McMahon<sup>7</sup>, Brendan P. Zietsch<sup>1</sup>, Margaret J. Wright (2019). Region-Specific Sex Differences in the Hippocampus, to be submitted to **NeuroImage**, June 2019.
869. Liza van Eijk<sup>a,b</sup>, Dajiang Zhu<sup>c</sup>, Baptiste Couvy-Duchesne<sup>d</sup>, Lachlan T. Strike<sup>b</sup>, Anthony J. Lee<sup>e</sup>, Narelle K. Hansell<sup>b</sup>, **Paul M. Thompson<sup>f</sup>**, Greig I. de Zubicaray<sup>g</sup>, Katie L. McMahon<sup>h</sup>, Margaret J. Wright<sup>b,i</sup>, Brendan P. Zietsch (2019). Are sex differences in human brain structure associated with sex differences in behaviour to be submitted to **PNAS**, July 2019.
870. Emily L. Dennis<sup>1</sup>, Kathryn L. Humphreys<sup>2</sup>, Lucy S. King<sup>2</sup>, Paul M. Thompson<sup>1</sup>, Ian H. Gotlib<sup>2</sup> (2018). **Cross-sectional and Longitudinal Associations between Irritability and Regional Brain Volume in Young Adolescents**, *Social Cognitive and Affective Neuroscience*, in press, **June 26 2019**.
871. Nicola Armstrong, Karen Mather, Muralidharan Sargurupremraj, Maria Knol, Rainer Malik, Claudia Satizabal, Lisa Yanek, Wei Wen, Vilmundur Gudnason, Nicole Dueker, Lloyd Elliott, Edith Hofer, Joshua Bis, neda Jahanshad, Shuo Li, Mark Logue, Michelle Luciano, Markus Scholz, Albert Smith, Stella Trompet, Dina Vojinovic, Rui Xia, Fidel Alfaró-Almagro, David Ames, Najaf Amin, Philippe Amouyel, Alexa Beiser, Henry Brodaty, Ian Deary, Christine Fennema-Notestine, Piyush Gampawar, Rebecca Gottesman, Ludovica Griffanti, Clifford Jack, Jr., Mark Jenkinson, Jiyang Jiang, Brian Kral, John Kwok, Leonie Lampe, David Liewald, Pauline Maillard, Jonathan Marchini, Mark Bastin, Bernard Mazoyer, Lukas Pirpamer, Jose Romero, Gennady Roshchupkin, Peter Schofield, Matthias Schroeter, David Stott, Anbupalam Thalamuthu, Julian Trollor, Christophe Tzourio, Jeroen van der Grond, Meike Vernooij, A. Veronica Witte, Margaret Wright, Qiong Yang, Zoe Morris, Sigurdur Sigurdsson, Bruce Psaty, Arno Villringer, Helena Schmidt, Asta Håberg, Cornelia van Duijn, J. Wouter Jukema, Martin Dichgans, Ralph Sacco, Clinton Wright, William Kremen, Lewis Becker, Paul Thompson, Thomas Mosley, Jr., Joanna Wardlaw, M. Arfan Ikram, Hieab Adams, Sudha Seshadri, Perminder Sachdev, Stephen Smith, Lenore Launer, W.T. Longstreth, Jr., Charles DeCarli, Reinhold Schmidt, Myriam Fornage, Stéphanie Debette, and Paul



Nyquist [83 authors in total] (2020). Common genetic variation indicates separate etiologies for periventricular and deep white matter hyperintensities, 2<sup>nd</sup> revision submitted to **Stroke**, Feb. 29 2020.

872. Fabrizio Piras Ph.D.<sup>1\*</sup>, Federica Piras Ph.D.<sup>1</sup>, Yoshinari Abe M.D.<sup>2</sup>, Sri Mahavir Agarwal M.D.<sup>3</sup>, Ph.D., Alan Anticevic Ph.D.<sup>4</sup>, Stephanie Ameis M.D.<sup>5,6,7</sup>, Paul Arnold M.D. Ph.D.<sup>8</sup>, Núria Bargalló M.D., Ph.D.<sup>9,10</sup>, Marcelo C. Batistuzzo Ph.D.<sup>11</sup>, Francesco Benedetti M.D.<sup>12</sup>, Jan-Carl Beucke Ph.D.<sup>13</sup>, Premika S.W. Boedhoe M.Sc.<sup>14,15</sup>, Irene Bollettini Ph.D.<sup>12</sup>, Silvia Brem Ph.D.<sup>16</sup>, Anna Calvo M.Sc.<sup>9</sup>, Kang Ik Kevin Cho Ph.D.<sup>17</sup>, Sara Dallspezia M.D., Ph.D.<sup>12</sup>, Erin Dickie Ph.D.<sup>18</sup>, Benjamin Adam Ely B.S.<sup>19</sup>, Siyan Fan Ph.D.<sup>15</sup>, Jean-Paul Fouche M.Sc.<sup>20</sup>, Patricia Gruner Ph.D.<sup>4</sup>, Deniz A. Gürsel M.Sc.<sup>21</sup>, Tobias Hauser Ph.D.<sup>16</sup>, Yoshiyuki Hirano Ph.D.<sup>22</sup>, Marcelo Q. Hoexter M.D., Ph.D.<sup>11</sup>, Mariangela Iorio Ph.D.<sup>1,23</sup>, Anthony James M.D.<sup>24</sup>, Neda Jahanshad Ph.D.<sup>25</sup>, Reddy Janardhan Reddy M.D.<sup>3</sup>, Christian Kaufmann Ph.D.<sup>13,26</sup>, Kathrin Koch Ph.D.<sup>21</sup>, Peter Kochunov Ph.D.<sup>27</sup>, Jun Soo Kwon M.D., Ph.D.<sup>17</sup>, Luisa Lazaro M.D., Ph.D.<sup>28,29</sup>, Christine Lochner Ph.D.<sup>20</sup>, Rachel Marsh Ph.D.<sup>30</sup>, Akiko Nakagawa M.D., Ph.D.<sup>22</sup>, Takashi Nakamae M.D.<sup>2</sup>, Ph.D., Janardhanan. C. Narayanaswamy, M.D.<sup>3</sup>, Yuki Sakai M.D., Ph.D.<sup>2</sup>, Eiji Shimizu M.D., Ph.D.<sup>22,31</sup>, Helen Blair Simpson M.D., Ph.D.<sup>30</sup>, Noam Soreni M.D.<sup>31</sup>, Philipp Stämpfli Ph.D.<sup>32</sup>, Emily R. Stern Ph.D.<sup>19</sup>, Philip Szeszko Ph.D.<sup>33</sup>, Ganesan Venkatasubramanian M.D.<sup>3\*</sup>, Ph.D.<sup>3</sup>, Ph.D, Zhen Wang M.D., Ph.D.<sup>34</sup>, Je-Yeon Yun M.D.<sup>15</sup>, Ph.D., ENIGMA OCD Working Group, Dan J. Stein M.D., Ph.D.<sup>20</sup>, Paul M. Thompson Ph.D.<sup>25</sup>, Odile A. van den Heuvel M.D.<sup>14,15</sup> and Gianfranco Spalletta (2019). White Matter Microstructure and its Relation to Clinical Features of Adult and Pediatric Obsessive-Compulsive Disorder: Findings from the ENIGMA OCD Working Group Diffusion Tensor Imaging Study of the ENIGMA-OCD Working Group, submitted, *Translational Psychiatry*, Feb. 25, 2020.
873. Brittany L. Mitchell<sup>1,2</sup>, Gabriel Cuéllar-Partida<sup>3</sup>, Katrina L. Grasby<sup>1</sup>, Adrian I. Campos<sup>1,5</sup>, Lachlan T. Strike<sup>4</sup>, Liang-Dar Hwang<sup>3</sup>, Asyu Okbay<sup>6,7,8</sup>, **Paul M. Thompson<sup>9</sup>**, Nicholas G. Martin<sup>1,2</sup>, Sarah E. Medland<sup>1</sup>, Margaret J. Wright<sup>4</sup>, and Miguel E. Rentería (2019). **Educational attainment polygenic scores predict surface area of cortical regions important for language and memory, to be submitted to *Cerebral Cortex*, June 2019.**
874. Daniel C. Moyer, Greg ver Steeg, Chantal Tax, Paul M. Thompson (2019). Scanner Invariant Representations for Diffusion MRI Harmonization, **Magnetic Resonance in Medicine, under revision, July 2019; pre-print available at arXiv: <https://arxiv.org/abs/1904.05375>**
875. F.A. Wilkes<sup>1</sup>, Z. Abaryan<sup>2</sup>, C.R.K. Ching<sup>2</sup>, B.A. Gutman<sup>2</sup>, S.K. Madsen<sup>2</sup>, M. Walterfang<sup>3</sup>, D. Velakoulis<sup>3</sup>, J.C. Stout<sup>4</sup>, P. Chua<sup>5</sup>, G.F. Egan<sup>4,6</sup>, P.M. Thompson<sup>2,7</sup>, J.C.L. Looi<sup>1,3</sup>, N. Georgiou-Karistianis<sup>4</sup> **Striatal morphology and neurocognitive dysfunction in Huntington disease: The IMAGE-HD study, *Neurobiology of Disease*, in press, July 2019.**
876. Favre P, .... **Thompson PM**, .... Duchesnay E, Houenou J, for the ENIGMA Bipolar Disorder Working Group. Widespread White Matter Microstructural Abnormalities in Bipolar Disorder: Evidence from mega- and meta-analyses across 3,033 individuals, **under revision for *Neuropsychopharmacology*, July 16 2019.**
877. Sourena Soheili-Nezhad, Emma Sprooten, Neda Jahanshad, Sebastian Guelfi, Reza Khosrowabadi, Andrew J. Saykin, Paul M. Thompson, Christian F. Beckmann, Mojtaba Zarei (2020). Exonic SHARPIN

variant is associated with Alzheimer's disease. **Human Brain Mapping**, accepted, May 14 2020.

878. Unn K Haukvik, PhD, MD <sup>1,2,†</sup>, Tiril P Gurholt, PhD, MSc <sup>3,4,†</sup>, Stener Nerland, MSc <sup>3,4</sup>, Theophilus N. Akudjedu, MSc <sup>5</sup>, Martin Alda, MD <sup>6,7</sup>, Dag Alnæs, PhD <sup>3,4</sup>, Silvia Alonso-Lana, PhD <sup>8</sup>, Jochen Bauer, PhD <sup>9</sup>, Bernhard T. Baune, PhD, MD <sup>10,11,12</sup>, Francesco Benedetti, MD <sup>1,3,14</sup>, Michael Berk, PhD, MD <sup>15,16</sup>, Francesco Bettella, PhD <sup>3,4</sup>, Paolo Brambilla, PhD, MD <sup>17,18</sup>, Erick J Canales-Rodríguez, PhD <sup>8</sup>, Dara M Cannon, PhD <sup>5</sup>, Xavier Caseras, PhD <sup>20</sup>, Orwa Dandash, PhD <sup>21,22</sup>, Udo Dannlowski, PhD, MD <sup>10</sup>, Giuseppe Delvecchio, PhD <sup>23</sup>, Ana M. Díaz-Zuluaga, MD, PhD(c) <sup>24</sup>, Torbjørn Elvsåshagen, PhD, MD <sup>1,25</sup>, Mar Fatjó-Vilas, PhD <sup>8</sup>, Sonya F Foley, MSc <sup>26</sup>, Katharina Förster, MSc <sup>10</sup>, Janice M Fullerton, PhD <sup>27,28</sup>, Dominik Grotegerd, PhD <sup>10</sup>, Oliver Gruber, MD <sup>29</sup>, Bartholomeus C.M. Haarman, PhD, MD <sup>30</sup>, Beathe C Haatveit, PhD <sup>3,4</sup>, Tomas Hajek, PhD, MD <sup>31,6,7</sup>, Brian Hallahan, MD <sup>5</sup>, Mathew Harris, PhD <sup>33</sup>, Fleur M Howells, PhD <sup>34,35</sup>, Carina Hülsmann, MSc <sup>10</sup>, Neda Jahanshad, PhD <sup>36</sup>, Kjetil N Jørgensen, PhD <sup>4,3</sup>, Tilo Kircher, MD <sup>37</sup>, Bernd Krämer, PhD <sup>29</sup>, Axel Krug, PhD <sup>38</sup>, Rayus Kuplicki, PhD <sup>39</sup>, Trine V Lagerberg, PhD <sup>3,4</sup>, Thomas Matthew Lancaster, PhD <sup>40</sup>, Rhoshel Lenroot, PhD, MD <sup>27,41,42</sup>, Vera Lonnig, MD <sup>3,4</sup>, Carlos López-Jaramillo, PhD, MD, MSc <sup>43,44</sup>, Colm McDonald, MD, PhD <sup>5</sup>, Andrew McIntosh, MD <sup>33</sup>, Genevieve McPhilemy, BSc <sup>5</sup>, Ingrid Melle, PhD, MD <sup>3,4</sup>, Philip B. Mitchell, PhD, MD, MB BS <sup>45,46</sup>, Leila Nabulsi, MPharm, MSc <sup>5</sup>, Igor Nenadic, MD <sup>47</sup>, Viola Oertel, PhD <sup>48</sup>, Lucio Oldani, MD <sup>17</sup>, Nils Opel, MD <sup>10</sup>, Bronwyn Overs, BSc <sup>49</sup>, Julian A. Pineda-Zapata, BSc <sup>50,51</sup>, Edith Pomarol-Clotet, PhD, MD <sup>8</sup>, Lisa Rauer, MSc <sup>29</sup>, Ronny Redlich, PhD <sup>52</sup>, Jonathan Repple, MD <sup>10</sup>, Maria M Rive, PhD, MD <sup>53</sup>, Gloria Roberts, PhD <sup>46,54</sup>, Eric H. Ruhe, PhD, MD <sup>55,56</sup>, Raymond Salvador, PhD <sup>8</sup>, Salvador Sarró, PhD, MD <sup>8</sup>, Jonathan Savitz, PhD <sup>57,58</sup>, Aart H. Schene, MD, Prof. <sup>59,60,56</sup>, Kang Sim, MD <sup>61,62,63</sup>, Marcio G Soeiro-de-Souza, PhD, MD <sup>64</sup>, Michael Stäblein, PhD <sup>65</sup>, Dan J Stein, PhD, MD <sup>66</sup>, Frederike Stein, MA <sup>67</sup>, Christian K. Tamnes, PhD <sup>68,14,3</sup>, Henk S Temmingh, PhD <sup>69,70</sup>, Sophia Thomopoulos, MSc <sup>36</sup>, Dennis van der Meer, PhD <sup>3,71</sup>, Dick J. Veltman, MD, Prof. <sup>72,73</sup>, Eduard Vieta, PhD, MD <sup>74</sup>, Lena Waltemate, MSc <sup>10</sup>, Lars T Westlye, PhD <sup>3,4,75</sup>, Heather C Whalley, PhD <sup>33</sup>, Philipp G Sämann, MD <sup>76</sup>, Paul M Thompson, PhD, MD <sup>36</sup>, Christopher R. K. Ching, PhD <sup>36</sup>, Ole A Andreassen, PhD, MD <sup>3,4</sup>, Ingrid Agartz, PhD, MD <sup>3,4,77</sup>, for the ENIGMA Bipolar Disorder Working group (2019). **In vivo hippocampal subfield volumes in bipolar disorder – a mega-analysis from the ENIGMA consortium, to be submitted, Dec. 2019.**

879. **Willem B. Bruin, M.Sc., Jonathan Shock, Luke Taylor, M.Sc., Rajat Thomas,** Yoshinari Abe, M.D., Ph.D., Pino Alonso, M.D., Ph.D., Stephanie H. Ameis, M.D., M.Sc., Alan Anticevic, Ph.D., Paul D. Arnold, M.D., Ph.D., Francesca Assogna, Ph.D., Marcelo C. Batistuzzo, Ph.D., Francesco Benedetti, M.D., Jan C. Beucke, Ph.D., Premika S.W. Boedhoe, Ph.D., Irene Bollettini, Ph.D., Anushree Bose, PhD, Silvia Brem, Ph.D., Brian P. Brennan, M.D., M.M.Sc., Willem B. Bruin, M.Sc., Jan K Buitelaar, M.D., Ph.D., Rosa Calvo, M.D., Ph.D., Yuqi Cheng, Ph.D., Kang Ik K. Cho, Ph.D., Sara Dallspezia, M.D., Damiaan Denys, M.D., Ph.D., Benjamin A. Ely, B.S., (Ph.D.), Jamie Feusner, M.D., Kate D. Fitzgerald, M.D., Jean-Paul Fouche, Ph.D., Egill A. Fridgeirsson, M.Sc., Patricia Gruner, Ph.D., Deniz A. Gürsel, M.Sc., Tobias Hauser, Ph.D., Yoshiyuki Hirano, Ph.D., Marcelo Q. Hoexter, M.D., Ph.D., Hao Hu, Ph.D., Chaim Huyser, M.D., Ph.D., Anthony James, MRCP, MRPsych, Fern Jaspers-Fayer, Ph.D., Norbert Kathmann, Ph.D., Christian Kaufmann, Ph.D., Kathrin Koch, Ph.D., Masaru Kuno, M.D., Ph.D., Gerd Kvale, Ph.D., Jun Soo Kwon, M.D., Ph.D., Yanni Liu, Ph.D., Christine Lochner, Ph.D., Luisa Lázaro, M.D., Ph.D., Paulo Marques, Ph.D., Rachel Marsh, Ph.D., Ignacio Martínez-Zalacáin, M.Sc., David Mataix-Cols, Ph.D., José M. Menchón, M.D., Ph.D., Luciano Minuzzi, M.D., Ph.D., Pedro S. Moreira, M.Sc., Astrid Morer, M.D., Ph.D., Pedro Morgado, M.D., Ph.D., Akiko Nakagawa, M.D., Ph.D., Takashi Nakamae, M.D., Ph.D., Tomohiro Nakao, M.D., Ph.D., Janardhanan C. Narayanaswamy, M.D., Erika L. Nurmi, M.D., Ph.D., Joseph O'Neill, Ph.D., Jose C. Pariente, M.Sc., Chris Perriello, B.S., John Piacentini, Ph.D., Fabrizio Piras, Ph.D., Federica Piras, Ph.D., Y.C. Janardhan Reddy, M.D., Oana G. Rus-Oswald, Ph.D., Yuki Sakai, M.D., Ph.D., Lianne Schmaal, Ph.D., H. Blair Simpson, M.D., Ph.D., Noam Soreni, M.D., Carles Soriano-Mas, Ph.D., Gianfranco Spalletta, M.D., Ph.D., Emily R. Stern, Ph.D., Michael C. Stevens, Ph.D., S. Evelyn Stewart, M.D., Philip R. Szeszko, Ph.D., David F. Tolin, Ph.D., Aki Tsuchiyagaito, Ph.D., Jos W.R. Twisk, Ph.D.,

Ganesan Venkatasubramanian, M.D., Ph.D., Zhen Wang, M.D., Ph.D., Je-Yeon Yun, M.D., Ph.D., Daan van Rooij, Ph.D., the ENIGMA-OCD Working Group\*, Paul M. Thompson, Ph.D., **Odile A. van den Heuvel, M.D., Ph.D., Dan J. Stein, M.D., Ph.D., Guido A. van Wingen, Ph.D. (2019). Development and Validation of a Multivariate Classifier for Obsessive Compulsive Disorder using Structural Neuroimaging: Findings from ENIGMA-OCD, submitted, July 2019. Also pre-preprint: <https://www.medrxiv.org/content/10.1101/19012567v1>**

880. **Lei Wang, .... Paul Thompson, .... Jess Turner, Theo van Erp, Boris Gutman (2019).** "A Meta-Analysis of Deep Brain Structural Shape and Asymmetry Abnormalities in 2,833 Individuals with Schizophrenia Compared to 3,929 Healthy Volunteers via the ENIGMA Consortium, submitted to **Molecular Psychiatry**, Aug. 14 2019.

881. Lauren E. Salminen; Philipp G. Sämann; Yuanchao Zheng; Emily L. Dennis; Emily K. Clarke; Neda Jahanshad; Juan E. Iglesias; Christopher D. Whelan; Steven E. Bruce; Jasmeet P. Hayes; Soraya Seedat; Lee A. Baugh; Jessica Bomyea; Joanna Bright; Chanellé Buckle; Kyle Choi; Nicholas D. Davenport; Richard J. Davidson; Maria Densmore; Seth G. Disner; Stefan du Plessis; Jeremy A. Elman; Negar Fani; Gina L. Forster; Carol E. Franz; Jessie L. Frijling; Atilla Gonenc; Staci A. Gruber; Daniel W. Grupe; Jeffrey P. Guenette; Courtney C. Haswell; David Hofmann; Michael Hollifield; Bobak Hosseini; Anna R. Hudson; Jonathan Ipser; Tanja Jovanovic; Amy Kennedy-Krage; Mitzy Kennis; Anthony King; Philipp Kinzel; Saskia B. J. Koch; Inga Koerte; Sheri Koopowitz; Mayuresh S. Korgaonkar; William S. Kremen; John Krystal; Lauren A. M. Lebois; Ifat Levy; Michael J. Lyons; Vincent A. Magnotta; Antje Manthey; Soichiro Nakahara; Laura Nawijn; Richard W. J. Neufeld; Jack B. Nitschke; Daniel O'Doherty; Robert H. Paul; Matthew Peverill; Faisal M. Rashid; Kerry J. Ressler; Annerine Roos; Christian Schmahl; Margaret A. Sheridan; Anika Sierk; Alan Simmons; Jeffrey S. Simons; Raluca M. Simons; Murray B. Stein; Jennifer S. Stevens; Benjamin Suarez-Jimenez; Jean Théberge; Kathleen Thomaes; Sophia I. Thomopoulos; Leigh L. van den Heuvel; Steven J. A. van der Werff; Theo G. M. van Erp; Sanne J. H. van Rooij; Mirjam van Zuiden; Tim Varkevisser; Robert R. J. M. Vermeiren; Tor D. Wager; Henrik Walter; Xin Wang; Sherry Winternitz; Jonathan D. Wolff; Kristen Wrocklage; Xi Zhu; Chadi G. Abdallah; Richard Bryant; Judith Daniels; Michael DeBellis; Kelene A. Fercho; Elbert Geuze; Ilan Harpaz-Rotem; Julia I. Herzog; Milissa L. Kaufman; Jim Lagopoulos; Ruth Lanius; Katie A. McLaughlin; Sven C. Mueller; Yuval Neria; Miranda Olf; K. Luan Phan; Martha Shenton; Scott R. Sponheim; Dan J. Stein; Thomas Straube; Nic J. A. van der Wee; Dick J. Veltman; Paul M. Thompson; Rajendra A. Morey; Mark W. Logue (2019). Hippocampal subfield volumes are uniquely affected in PTSD and depression: International analysis of 31 cohorts from the PGC-ENIGMA PTSD Working Group, *Biological Psychiatry*, submitted.

882. **Ching C, ....., Thompson PM, Bearden CE and the ENIGMA-22q Deletion Syndrome Working Group (2019).** Mapping subcortical brain alterations in 22q11.2 deletion syndrome:

Effects of deletion size and convergence with idiopathic psychosis, under revision, *AJP*, August 2019.

883. Maxime Bertoux, Julien Lagarde; Fabian Corlier; Lorraine Hamelin; Jean-François Mangin; Olivier Colliot; Marie Chupin; Meredith N Braskie; **Paul M Thompson**; Michel Bottlaender; Marie Sarazin (2019). Sulcal morphology in Alzheimer's disease: an effective marker of diagnosis and cognition, *Neurobiology of Aging*, in press, July 24 2019.
884. Lianne Schmaal<sup>1,2</sup>, Elena Pozzi<sup>1,2</sup>, Tiffany Ho<sup>3,4,5</sup>, Laura S. van Velzen<sup>1,2</sup>, Ilya M. Veer<sup>6</sup>, Nils Opel<sup>7</sup>, Eus J.W. van Someren<sup>8,9,10</sup>, Laura K.M. Han<sup>10</sup>, André Aleman<sup>11</sup>, Bernhard T. Baune<sup>7,12,13</sup>, Tessa F. Blanken<sup>3,9</sup>, Kathryn Cullen<sup>14</sup>, Udo Dannlowski<sup>7</sup>, Christopher Davey<sup>1,2</sup>, Jennifer Evans<sup>15</sup>, Cynthia H.Y. Fu<sup>16,17</sup>, Ian Gotlib<sup>3</sup>, Roberto Goya-Maldonado<sup>18</sup>, Hans J. Grabe<sup>19</sup>, Nynke A. Groenewold<sup>20</sup>, Dominik Grotegerd<sup>7</sup>, Oliver Gruber<sup>21</sup>, Boris A. Gutman<sup>22</sup>, Geoffrey Hall<sup>23</sup>, Eva Hilland<sup>24,25</sup>, Benson Irungu<sup>26</sup>, Rune Jonassen<sup>27</sup>, Bonnie Klimes-Dougan<sup>14</sup>, Nils Inge Landrø<sup>28</sup>, Jeanne Leerssen<sup>8,9</sup>, David Linden<sup>29</sup>, Frank P. MacMaster<sup>30</sup>, Igor Nenadic<sup>31,32</sup>, Maria J. Portella<sup>33,34,35</sup>, Liesbeth Reneman<sup>36</sup>, Matthew Sacchet<sup>37</sup>, Philipp Sämann<sup>38</sup>, Anouk Schranter<sup>36</sup>, Kang Sim<sup>39,40</sup>, Jair C. Soares<sup>26</sup>, Dan J. Stein<sup>41</sup>, Nic van Der Wee<sup>42,43</sup>, Robert Vermeiren<sup>44</sup>, Henrik Walter<sup>6</sup>, Heather C. Whalley<sup>45</sup>, Katharina Wittfeld<sup>19,46</sup>, Tony T. Yang<sup>5</sup>, Carlos Zarate<sup>47</sup>, Sophia Thomopoulos<sup>48</sup>, Neda Jahanshad<sup>48</sup>, Paul M. Thompson<sup>48</sup>, Dick J. Veltman<sup>10</sup> (2020). **ENIGMA MDD: 7 Years of Global Studies of Depression through Worldwide Data, invited review for Translational Psychiatry, under revision, Jan 2020.**
885. Emrin Horgusluoglu, M.S.<sup>1,2</sup>, Kwangsik Nho, Ph.D.<sup>2,3</sup>, Shannon L. Risacher, Ph.D.<sup>2,3</sup>, Paul K Crane, M.D.<sup>2,3</sup>, Derrek Hibar, Ph.D.<sup>2,3</sup>, Paul M. Thompson, Ph.D.<sup>2,3</sup>, Andrew J. Saykin, Psy.D.<sup>1,2,3,6</sup> for the ADNI and ENIGMA (2017). **Genome-wide association analysis of hippocampal volume identifies enrichment of neurogenesis-related pathways**, *Scientific Reports*, in press, Sept. 2019.
886. Dennis EL, Caeyenberghs K, Asarnow RF, Babikian T, Bartnik-Olson B, Bigler ED, Figaji A, Hodges CB, Levin H, Lindsey H, Livny-Ezer A, Max J, Newsome M, Olsen A, Ryan NP, Suskauer SJ, Thomopoulos S, Ware AL, Watson CG, Wheeler AL, Zielinski BA, **Thompson PM**, Tate DF, Wilde EA (2019) Brain Imaging in Young Brain Injured Patients: A Coordinated Effort Towards Individualized Predictors from the ENIGMA Pediatric msTBI Group. *Brain Imaging and Behavior* (Special Issue on ENIGMA Brain Injury). Under Review. <https://psyarxiv.com/y2txh/>
887. Koerte IK, Dennis EL, Bazarian JJ, Bigler ED, Buckley T, Choe M, Esopenko C, Gill J, Giza CC, Hodges CB, Irimia A, Kenney K, Levin H, Lin A, Lindsey HM, Max J, Mayer AR, Merchant-Borna K, Mills B, Porfido T, Tartaglia C, Ware AL, Zeineh M, **Thompson PM**, Tate DF, Wilde EA, Baron D (2019) Neuroimaging of Sport-Related Brain Injury: Challenges and Recommendations from the ENIGMA Sports-Related Brain Injury group. *Brain Imaging and Behavior* (Special Issue on ENIGMA Brain Injury). Under Review.
888. Tate DF, Dennis EL, Adams JT, Adamson MM, Belanger HG, Bigler ED, Clarke AL, Delano-Wood LM, Hayes JP, Hinds II SR, Hodges CB, Irimia A, Kenney K, Lindsey HM, Morey RA, Troyanskaya M, **Thompson PM**, Wilde EA (2019) Coordinating Global Multi-Site Studies of Military TBI: Potential, Challenges, and Harmonization Guidelines from the ENIGMA Military Brain Injury Group. *Brain Imaging and Behavior* (Special Issue on ENIGMA Brain

Injury). Under Review.

889. Olsen A, Babikian T, Bigler E, Caeyenberghs K, Conde V, Dams-O'Connor K, Dobryakova E, Grafman J, Håberg AK, Heggland I, Hellstrøm T, Hodges CB, Irimia A, Jha RM, Johnson PK, Levin H, Li LM, Lindsey HM, Livny-Ezer A, Løvstad M, Medaglia J, Menon D, Mondello S, Monti MM, Newcombe VFJ, Petroni A, Ponsford J, Sharp D, Spitz G, Westlye LT, **Thompson PM**, Dennis EL, Tate DF, Wilde EA, Hillary FG (2019). Toward a Global and Open Science for Imaging Brain Trauma: the ENIGMA Adult msTBI Working Group. *Brain Imaging and Behavior* (Special Issue on ENIGMA Brain Injury). Under Review.

890. Bartnik-Olson B, Alger J, Babikian T, Harris AD, Holshouser B, Kirov I, Maudsley AA, **Thompson PM**, Dennis EL, Tate DF, Wilde EA, Lin A (2019) The Clinical Utility of Magnetic Resonance Spectroscopy in Traumatic Brain Injury: Recommendations from the ENIGMA MRS Working Group. *Brain Imaging and Behavior* (Special Issue on ENIGMA Brain Injury). Under Review. <https://psyarxiv.com/gesvh/>

891. Jeffrey C.L. Loo<sup>1</sup>, Mark Walterfang<sup>2,3</sup>, David Jakabek<sup>4</sup>, Matthew D. Macfarlane<sup>4</sup>, Brian D. Power<sup>5</sup>, Nellie Georgiou-Karistianis<sup>6</sup>, Oskar Hansson<sup>7</sup>, Conor Owens-Walton<sup>1</sup>, Christer Nilsson<sup>8</sup>, Alexander Santillo<sup>8</sup>, Lauren M. Turner<sup>1</sup>, Paul M. Thompson<sup>9</sup>, Danielle van Westen<sup>10</sup>, Fiona A. Wilkes<sup>1</sup>, Lars-Olof Wahlund<sup>11</sup>, Dennis Velakoulis (2019). **Key stations in the London Underground of the brain: the form and function of the striatum and thalamus in neurodegenerative disease**, Australian and New Zealand Journal of Psychiatry, to be submitted, Sept. 2019.

892. Kazutaka Ohi<sup>1,2,\*</sup>, Aki Kuwata<sup>2</sup>, Takamitsu Shimada<sup>2</sup>, Yuzuru Kataoka<sup>2</sup>, Toshiki Yasuyama<sup>2</sup>, Yasuhiro Kawasaki<sup>2</sup>, Paul M. Thompson<sup>3</sup> (2019). **Genetic correlations between subcortical brain volumes and psychiatric disorders, submitted to British Journal of Psychiatry, Oct. 2019.**

893. Rabin RA, Mackey S, Parvaz MA, Cousijn J, Li CS, Pearlson G, Schmaal L, Sinha R, Stein E, Veltman D, Thompson PM, Conrod P, Garavan H, Alia-Klein N, Goldstein RZ, and the ENIGMA Addiction Working Group (2019). **Common and Sex-Specific Associations with Cocaine Use on Gray Matter Volume: Data from the ENIGMA Addiction Working Group, submitted to Human Brain Mapping, Aug. 2020.**

894. Sally Grace<sup>1</sup>, Maria Gloria Rossetti<sup>2,3</sup>, Nicholas Allen<sup>4</sup>, Albert Batalla<sup>6</sup>, Marcella Bellani<sup>5</sup>, Paolo Brambilla<sup>6,7</sup>, Yann Chye<sup>8</sup>, Patricia Conrod<sup>9</sup>, Janna Cousijn<sup>10</sup>, Hugh Garavan<sup>11</sup>, AE Goudriaan<sup>12</sup>, Robert Hester<sup>13</sup>, Kent Hutchison<sup>14</sup>, Izelle Labuschagne<sup>1</sup>, Reza Momenan<sup>15</sup>, Scott Mackey<sup>16</sup>, R Martin-Santos<sup>17</sup>, Praveetha Patalay<sup>18</sup>, Peter Rendell<sup>1</sup>, Nadia Solowij<sup>19</sup>, Rajita Sinha<sup>20</sup>, Lianne Schmaal<sup>21,22</sup>, Zsuzsika Sjoerds<sup>23</sup>, Chao Suo<sup>8</sup>, Gill Terrett<sup>1</sup>, Paul M. Thompson<sup>24</sup>, Ruth van Holst<sup>26</sup>, Dick Veltman, Murat Yücel<sup>8</sup>, the ENIGMA Addiction Working Group & Valentina Lorenzetti<sup>1,27,28</sup> (2020). Sex differences in the neuroanatomy of alcohol dependence: hippocampus and amygdala subregions in a sample of 966 people from the ENIGMA Addiction Working Group, **submitted to Biological Psychiatry, 2020.**

895. Sven Mueller, Eileen Lueders, ..., Thompson PM, ... (2020). **The neurobiology of transgender persons: Findings from the ENIGMA transgender persons working group**, to be submitted to Nature, Dec. 2019.

896. Christina P. Boyle, Cyrus A. Raji, Kirk I. Erickson, Oscar L. Lopez, James T. Becker, H. Michael Gach, W. T. Longstreth, Jr, Mikhail Popov, Owen T. Carmichael, Brandalyn C. Riedel, **Paul M. Thompson** (2020). **Estrogen, Brain Structure, and Cognition in Post-Menopausal Women**, *Human Brain Mapping*, in press, Aug. 2020.
897. Qi R, .., Thompson PM, ... (2020). Social support moderates the association between PTSD diagnosis and medial frontal volume in Chinese adults who lost their only child, *Neurobiology of Stress*, accepted, May 4 2020.
898. Xiang-Zhen Kong<sup>1</sup>, Merel Postema<sup>1</sup>, Tulio Guadalupe<sup>1</sup>, Carolien de Kovel<sup>1</sup>, Premika Boedhoe<sup>2,3</sup>, Martine Hoogman<sup>4,5</sup>, Samuel R. Mathias<sup>6</sup>, Daan van Rooij<sup>7</sup>, Dick Schijven<sup>1</sup>, David Glahn<sup>6,8</sup>, Sarah E. Medland<sup>9</sup>, Neda Jahanshad<sup>18</sup>, Sophia I. Thomopoulos<sup>18</sup>, Jan Buitelaar<sup>5,10,11</sup>, Theo G.M. van Erp<sup>12</sup>, Barbara Franke<sup>13,14</sup>, Simon E. Fisher<sup>15</sup>, Odile van den Heuvel<sup>2,3</sup>, Lianne Schmaal<sup>16,17</sup>, Paul M. Thompson<sup>18</sup>, Clyde Francks<sup>1,15,\*</sup> (2020). **Mapping brain asymmetry in health and disease through the ENIGMA consortium**, to be submitted to *Human Brain Mapping*, Dec. 2019.
899. Wierenga, L.M., Doucet, G., Dima, D., [ENIGMA Lifespan working group members], Thompson, P.M., Crone, E.A., Frangou, S, Tamnes, C.K. (2020). **Sex differences in variability of brain structure across the human lifespan: Results from the ENIGMA Lifespan working group**, to be submitted, Dec. 2019.
900. Anvar Kurmukov, Daniel Moyer, Neda Jahanshad, **Paul M. Thompson**, Boris A. Gutman (2020). **Optimizing Connectivity-Driven Brain Parcellation using Ensemble Clustering**, to be submitted to *Brain Connectivity*, Dec. 2019.
901. Tiril P Gurholt, PhD, MSc <sup>1,2,3,†,\*</sup>, Vera Lonning, MD <sup>2,3,†</sup>, Stener Nerland, MSc <sup>2,3</sup>, Kjetil N Jørgensen, PhD <sup>2,3</sup>, Unn K Haukvik, PhD, MD <sup>4,1</sup>, Clara Alloza, PhD <sup>6</sup>, Celso Arango, PhD, MD <sup>7</sup>, Claudia Barth, PhD, MSc <sup>2</sup>, Carrie E Bearden, PhD <sup>8</sup>, Michael Berk, PhD, MD <sup>9,10</sup>, Hannes Bohman, PhD, MD <sup>11,12</sup>, Covadonga M Díaz-Caneja, PhD, MD <sup>13</sup>, Carl Tobias Edbom, PhD, RN <sup>11</sup>, Theo GM van Erp, PhD <sup>39,40</sup>, Anne-Kathrin Fett, PhD <sup>15,16,17</sup>, Sophia Frangou RANGOU, PhD, MD <sup>18</sup>, Benjamin I Goldstein, PhD, MD <sup>19,20</sup>, Anahit Grigorian, MSc <sup>19</sup>, Neda Jahanshad, PhD <sup>42</sup>, Anthony C James, MD <sup>21,22</sup>, Joost Janssen, PhD <sup>23</sup>, Cecilie H Johannessen, MSc <sup>2</sup>, Erik G Jönsson, PhD, MD <sup>2,11</sup>, Katherine H Karlsgodt, PhD <sup>25</sup>, Matthew J Kempton, PhD <sup>26</sup>, Peter Kochunov, PhD <sup>27</sup>, Marinos Kyriakopoulos, PhD, MD <sup>28,29</sup>, Mathias Lundberg, PhD, MD <sup>30</sup>, Bradley J MacIntosh, PhD <sup>31,32</sup>, Bjørn R Rund, PhD <sup>33,34</sup>, Runar E Smelror, MSc <sup>2,3</sup>, Alysha Sultan, BSc <sup>19,35</sup>, Christian K Tamnes, PhD, MSc <sup>2,1,36</sup>, Sophia I Thomopoulos, BA <sup>42,37</sup>, Jessica A Turner, PhD <sup>38</sup>, Kirsten Wedervang-Resell, MD <sup>1</sup>, Anne M Myhre, PhD, MD <sup>41</sup>, Ole A Andreassen, PhD, MD <sup>1,2</sup>, Paul M Thompson, PhD <sup>42</sup>, Ingrid Agartz, PhD, MD <sup>2,3,11,\*</sup>, for the ENIGMA-EOP working group (2020). Intracranial volume and Subcortical Structures in Adolescents with Early-Onset Psychosis: A Mega-Analysis from the ENIGMA Early-onset Psychosis Working Group. To be submitted, Dec. 2019.
902. Maria Gloria Rossetti,<sup>1,2</sup> Scott Mackey,<sup>3</sup> Praveetha Patalay,<sup>4</sup> Nicholas B. Allen,<sup>5</sup> Albert Batalla,<sup>6</sup> Marcella Bellani,<sup>1</sup> Yann Chye,<sup>7</sup> Patricia Conrod,<sup>8</sup> Janna Cousijn,<sup>9</sup> Hugh Garavan,<sup>3</sup> Anna E. Goudriaan,<sup>10</sup> Robert Hester,<sup>11</sup> Rocio Martin-Santos,<sup>12</sup> Nadia Solowij,<sup>13</sup> Chao Suo,<sup>7</sup> **Paul M. Thompson**,<sup>14</sup> Murat Yücel,<sup>7</sup> Paolo Brambilla,<sup>2,15</sup> Valentina Lorenzetti (2020). Sex

and dependence related neuroanatomical differences in regular cannabis users: findings from the ENIGMA Addiction Working Group. To be submitted, Dec. 2019.

903. *Artemis Zavaliangos-Petropulu, Meral A. Tubi, Elizabeth Haddad, Alyssa Zhu, Neda Jahanshad, Paul M Thompson, Sook-Lei Liew (2020). Comparing Automated Hippocampal Segmentation Methods in a Stroke Population, to be submitted to Human Brain Mapping (ENIGMA Special Issue), 2020.*

904. *Peter Kochunov PhD\*<sup>1</sup>, Fengmei Fan, PhD<sup>2</sup>, Meghann C. Ryan MS<sup>1</sup>, Kathryn S. Hatch BS<sup>1</sup>, Shuping Tan<sup>2</sup>, MD, PhD, Neda Jahanshad PhD<sup>3</sup>, Paul M. Thompson PhD<sup>3</sup>, Theo G.M. van Erp<sup>4</sup>, Jessica A. Turner<sup>5</sup>, Shuo Chen PhD<sup>1</sup>, Yunlong Tan MD, PhD\*<sup>2</sup>, L. Elliot Hong MD (2020). Translating ENIGMA schizophrenia findings in cortical gray matter, subcortical volumes, and white matter integrity using the regional vulnerability index: Association with cognition, symptoms and disease trajectory, to be submitted to Human Brain Mapping (ENIGMA Special Issue), 2020.*

905. *Liew, S.-L., Zavaliangos-Petropulu, A., Jahanshad, N., Lang, C. E., Hayward, K. S., Lohse, K., Juliano, J. M., Assogna, F., Baugh, L. A., Bhattacharya, A. K., Borich, M. R., Boyd, L. A., Brodtmann, A., Buetefisch, C. M., Byblow, W. D., Cassidy, J. M., Conforto, A. B., Craddock, R. C., Dimyan, M. A., Dula, A. N., Ermer, E., Etherton, M. R., Fercho, K. A., Gregory, C. M., Hadidchi, S., Holguin, J. A., Hwang, D. H., Jung, S., Kautz, S. A., Khlif, M. S., Khoshab, N., Kim, B., Kim, H., Kuceyeski, A., Lotze, M., MacIntosh, B. J., Margetis, J. L., Mohamed, F. B., Piras, F., Ramos-Murguialday, A., Richard, G., Roberts, P., Robertson, A. D., Rondina, J. M., Rost, N. S., Sanossian, N., Schweighofer, N., Shiroishi, M. S., Soekadar, S. R., Spalletta, G., Stinear, C. M., Suri, A., Tang, W. K. W., Thielman, G. T., Vecchio, D., Villringer, A., Ward, N. S., Werden, E., Westlye, L. T., Winstein, C., Wittenberg, G. F., Wong, K. A., Yu, C., Cramer, S. C., & Thompson, P. M. (2020). The ENIGMA Stroke Recovery Working Group: Big data neuroimaging to study brain-behavior relationships after stroke. PsyArXiv. doi:10.31234/osf.io/wu7mh ; Human Brain Mapping (ENIGMA Special Issue), accepted, April 9 2020.*

906. *Sanjay M. Sisodiya<sup>1,2</sup>, Christopher D. Whelan<sup>3</sup>, Sean N. Hatton<sup>4</sup>, Andre Altmann<sup>5</sup>, Mina Ryten<sup>6</sup>, Annamaria Vezzani<sup>7</sup>, Maria Eugenia Caligiuri<sup>8</sup>, Angelo Labate<sup>9,10</sup>, Antonio Gambardella<sup>9,10</sup>, Victoria Ives-Deliperi<sup>11</sup>, Stefano Meletti<sup>12</sup>, Brent C. Munsell<sup>13,14</sup>, Leonardo Bonilha<sup>15</sup>, Manuela Tondelli<sup>16</sup>, Michael Rebsamen<sup>17</sup>, Christian Rummel<sup>17</sup>, Anna Elisabetta Vaudano<sup>12,16</sup>, Roland Wiest<sup>17</sup>, Akshara R. Balachandra<sup>4,18</sup>, Nuria Bargallo<sup>19,20</sup>, Emanuele Bartolini<sup>21,22</sup>, Andrea Bernasconi<sup>23</sup>, Neda Bernasconi<sup>23</sup>, Boris Bernhardt<sup>24</sup>, Benoit Caldirou<sup>23</sup>, Sarah J.A. Carr<sup>25</sup>, Gianpiero L. Cavalleri<sup>26,27</sup>, Fernando Cendes<sup>28</sup>, Luis Concha<sup>29</sup>, Patricia M. Desmond<sup>30</sup>, Martin Domin<sup>31</sup>, John S. Duncan<sup>32</sup>, Niels K. Focke<sup>32</sup>, Renzo Guerrini<sup>21</sup>, Khalid Hamandi<sup>33,34</sup>, Khoa Huynh<sup>4</sup>, Graeme D. Jackson<sup>35–37</sup>, Neda Jahanshad<sup>38</sup>, Reetta Kälviäinen<sup>39,40</sup>, Simon S. Keller<sup>41,42</sup>, Peter Kochunov<sup>43</sup>, Raviteja Kotikalapudi<sup>44–46</sup>, Magdalena A. Kowalczyk<sup>35,36</sup>, Barbara A.K. Kreilkamp<sup>42,47</sup>, Patrick Kwan<sup>48</sup>, Sara Lariviere<sup>24</sup>, Matteo Lenge<sup>49</sup>, Seymour M. Lopez<sup>5</sup>, Pascal Martin<sup>46</sup>, Mario Mascalchi<sup>50</sup>, José C.V. Moreira<sup>28</sup>, Marcia E. Morita-Sherman<sup>28,51</sup>, Heath R. Pardoe<sup>52</sup>, Jose C. Pariente<sup>19</sup>, Cristiane S. Rocha<sup>28</sup>, Raúl Rodríguez-Cruces<sup>29,53</sup>, Margitta Seeck<sup>54</sup>, Mira K.H.G. Semmelroch<sup>35,55</sup>, Benjamin Sinclair<sup>56,57</sup>, Hamid Soltanian-Zadeh<sup>58,59</sup>, Dan J. Stein<sup>60</sup>, Pasquale Striano<sup>61</sup>, Peter N. Taylor<sup>62</sup>, Rhys H. Thomas<sup>63</sup>, Sophia I. Thomopoulos<sup>38</sup>, Dennis Velakoulis<sup>36,64</sup>, Lucy Vivash<sup>56,65</sup>, Bernd Weber<sup>66</sup>, Clarissa Lin Yasuda<sup>28</sup>, Junsong Zhang<sup>67</sup>, **Paul M. Thompson<sup>38</sup>**, Carrie R. McDonald<sup>68</sup> for the ENIGMA Consortium Epilepsy Working Group (2020). **The ENIGMA-Epilepsy working group: mapping disease from large datasets**, submitted to **Human Brain Mapping**, Dec. 15 2019.*

907. *Janna Marie Bas-Hoogendam<sup>\*</sup>, Nynke A. Groenewold<sup>\*</sup>, Moji Aghajani, Gabrielle Freitag, Anita Harrewijn, Kevin Hilbert, Sophia I. Thomopoulos, Paul M. Thompson, Dick J. Veltman, Anderson Winkler, Ulrike Lueken, Daniel S. Pine, Nic J. A. van der Wee<sup>#</sup>, Dan J. Stein<sup>#</sup> (2020). ENIGMA-*

**Anxiety: A Rationale and Methodology for Large-Scale Neuroimaging Studies of Anxiety, to be submitted to *Human Brain Mapping*, Jan. 2020.**

- 908.** Lauren E. Salminen<sup>1</sup>, Meral A. Tubi<sup>1</sup>, Joanna Bright<sup>1</sup>, Christopher R.K. Ching<sup>1</sup>, Meredith N. Braskie, Neda Jahanshad<sup>1</sup>, Paul M. Thompson<sup>1</sup> **Neuroimaging sex differences in psychiatric and neurodegenerative disease: How much do we really know? to be submitted to *Human Brain Mapping*, Jan. 2020.**
- 909.** Sean N Hatton<sup>1</sup>, Khoa H Huynh<sup>2</sup>, Leonardo Bonilha<sup>3</sup>, Eugenio Abela<sup>4</sup>, Saud Alhusaini<sup>5,6</sup>, Andre Altmann<sup>7</sup>, Marina KM Alvim<sup>8</sup>, Akshara R Balachandra<sup>9,10</sup>, Emanuele Bartolini<sup>11,12</sup>, Benjamin Bender<sup>13</sup>, Neda Bernasconi<sup>14</sup>, Andrea Bernasconi<sup>14</sup>, Boris Bernhardt<sup>15</sup>, Benoit Caldaïrou<sup>16</sup>, Maria Eugenia Caligiuri<sup>17</sup>, Sarah JA Carr<sup>18</sup>, Gianpiero L Cavalleri<sup>19,20</sup>, Fernando Cendes<sup>21</sup>, Luis Concha<sup>22,23,24</sup>, Esmail Davoodi-bojd<sup>25</sup>, Patricia M Desmond<sup>26</sup>, Orrin Devinsky<sup>27</sup>, Colin P Doherty<sup>28,29</sup>, Martin Domin<sup>30</sup>, John S Duncan<sup>31,32</sup>, Niels K Focke<sup>33,34</sup>, Sonya F Foley<sup>35</sup>, Antonio Gambardella<sup>36,37</sup>, Ezequiel Gleichgerrcht<sup>3</sup>, Khalid Hamandi<sup>38,39</sup>, Akaria Ishikawa<sup>40</sup>, Simon S Keller<sup>41,42</sup>, Peter V Kochunov<sup>43</sup>, Raviteja Kotikalapudi<sup>44,45</sup>, Barbara AK Kreilkamp<sup>46,47</sup>, Patrick Kwan<sup>48,49</sup>, Angelo Labate<sup>50,51</sup>, Soenke Langner<sup>52,53</sup>, Matteo Lenge<sup>54,55</sup>, Min Liu<sup>56</sup>, Elaine Lui<sup>57,58</sup>, Pascal Martin<sup>59</sup>, Mario Mascalchi<sup>60</sup>, JosÉ CV Moreira<sup>61</sup>, Marcia E Morita-Sherman<sup>62,63</sup>, Terence J O'Brien<sup>64,65,66</sup>, Heath R Pardoe<sup>67</sup>, Jose C Pariente<sup>68</sup>, Letícia F Ribeiro<sup>69</sup>, Mark P Richardson<sup>70</sup>, Cristiane S Rocha<sup>71</sup>, Felix Rosenow<sup>72,73</sup>, Mariasavina Severino<sup>74</sup>, Benjamin Sinclair<sup>75,76</sup>, Hamid Soltanian-Zadeh<sup>77,78</sup>, Pasquale Striano<sup>79,80</sup>, Peter N Taylor<sup>81</sup>, Rhys H Thomas<sup>82,83</sup>, Domenico Tortora<sup>84</sup>, Dennis Velakoulis<sup>85,86</sup>, Annamaria Vezzani<sup>87</sup>, Lucy Vivash<sup>88,89</sup>, Felix von Podewils<sup>90</sup>, Sjoerd B Vos<sup>91,92</sup>, Bernd Weber<sup>93</sup>, Gavin P Winston<sup>94,95,96</sup>, Clarissa Lin Yasuda<sup>97</sup>, Paul M Thompson<sup>98</sup>, Neda Jahanshad<sup>99</sup>, Sanjay M Sisodiya<sup>100,101</sup>, Carrie R McDonald (2020). White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA Epilepsy study, submitted to *Brain*, Dec. 2019.
- 910.** Esther Walton, Vince Calhoun, Bas Heijmans, **Paul M. Thompson** & Charlotte A.M. Cecil (2020). The Rise of Neuroimaging Epigenetics: A systematic review of studies examining associations between DNA methylation and brain imaging, submitted to ***Nature Reviews Neuroscience***, Feb. 2020.
- 911.** Xin Wang<sup>1</sup>, Hong Xie<sup>2</sup>, Tian Chen<sup>3</sup>, Andrew S. Cotton<sup>1</sup>, Lauren E. Salminen<sup>4</sup>, Mark W. Logue<sup>5,57</sup>, Emily K. Clarke-Rubright<sup>6,58</sup>, John T. Wall<sup>2</sup>, Emily L. Dennis<sup>7,59,4,83</sup>, Brian M. O'Leary<sup>1</sup>, Chadi G. Abdallah<sup>8,60</sup>, Elpiniki Andrew<sup>9</sup>, Lee A. Baugh<sup>10,61,74</sup>, Jessica Bomyea<sup>11,50</sup>, Steven E. Bruce<sup>12</sup>, Richard Bryant<sup>13</sup>, Kyle Choi<sup>14</sup>, Judith K. Daniels<sup>15</sup>, Nicholas D. Davenport<sup>82,83</sup>, Richard J. Davidson<sup>17,63,80</sup>, Michael DeBellis<sup>18</sup>, Terri deRoon-Cassini<sup>19</sup>, Seth G. Disner<sup>82,83</sup>, Negar Fani<sup>20</sup>, Kelene A. Fercho<sup>21,10,61,74</sup>, Jacklynn Fitzgerald<sup>22</sup>, Gina L. Forster<sup>23,61,10</sup>, Elbert Geuze<sup>24,64</sup>, Hassaan Gomaa<sup>8,60</sup>, Evan Gordon<sup>25,65,81</sup>, Dan Grupe<sup>17,63</sup>, Ilan Harpaz-Rotem<sup>8,60</sup>, Courtney C. Haswell<sup>6,58</sup>, Julia I. Herzog<sup>26</sup>, David Hofmann<sup>27</sup>, Bobak Hosseini<sup>28</sup>, Anna R. Hudson<sup>29</sup>, Jonathan Ipser<sup>30</sup>, Neda Jahanshad<sup>4</sup>, Tanja Jovanovic<sup>31</sup>, Milissa L. Kaufman<sup>32,66</sup>, Anthony King<sup>33</sup>, Saskia B. J. Koch<sup>34,67</sup>, Inga Koerte<sup>7,68</sup>, Mayuresh S. Korgaonkar<sup>35</sup>, John Krystal<sup>8,60</sup>, Christine Larson<sup>36</sup>, Lauren A. M. Lebois<sup>37,66</sup>, Ifat Levy<sup>8,69</sup>, Gen Li<sup>38</sup>, Vincent A. Magnotta<sup>39</sup>, Antje Manthey<sup>40</sup>, Geoffrey May<sup>25,65,81,79</sup>, Katie A. McLaughlin<sup>41</sup>, Sven C. Mueller<sup>29,70</sup>, Steven M. Nelson<sup>25,65,81,79</sup>, Yuval Neria<sup>42,69</sup>, Miranda Olf<sup>34,72</sup>, Elizabeth Olson<sup>43</sup>, Matthew Peverill<sup>44</sup>, K. Luan Phan<sup>45,28,82</sup>, Kerry Ressler<sup>46,66</sup>, Isabelle M. Rosso<sup>43</sup>, Kelly Sambrook<sup>47</sup>, Christian Schmahl<sup>26,73</sup>, Martha E. Shenton<sup>48</sup>,



- Jeffrey S. Simons<sup>49,74</sup>, Raluca M. Simons<sup>49,61</sup>, Scott R. Sponheim<sup>82,83</sup>, Murray B. Stein<sup>50,75</sup>, Dan J. Stein<sup>51</sup>, Jennifer S. Stevens<sup>20</sup>, Thomas Straube<sup>27</sup>, Benjamin Suarez-Jimenez<sup>42,69</sup>, Marijo Tamburrino<sup>1</sup>, Sophia I. Thomopoulos<sup>4</sup>, Nic J. A. van der Wee<sup>52,74</sup>, Steven J. A. van der Werff<sup>52,74</sup>, Theo G.M. van Erp<sup>53,77</sup>, Sanne J. H. van Rooij<sup>20</sup>, Dick J. Veltman<sup>54</sup>, Robert R. J. M. Vermeiren<sup>55,76</sup>, Li Wang<sup>38</sup>, Ye Zhu<sup>38</sup>, Xi Zhu<sup>42,69</sup>, Paul M. Thompson<sup>4</sup>, \*Rajendra A. Morey<sup>6,58</sup>, \*Israel Liberzon (2020). Cortical volume abnormalities in posttraumatic stress disorder: An ENIGMA-Psychiatric Genomics Consortium PTSD Workgroup mega-analysis, **Molecular Psychiatry**, in press, Oct. 23 2020.
- 912.**David F Tate, Emily L Dennis, John T Adams, Maheen M Adamson, Heather G Belanger, Erin D Bigler, Heather C Bouchard, Alexandra L Clark, Lisa M Delano-Wood, Seth G Disner, Blessen C Eapen, Carol E Franz, Elbert Geuze, Naomi J Goodrich-Hunsaker, Kihwan Han, Jasmeet P Hayes, Sidney R Hinds II, Cooper B Hodges, Elizabeth S Hovenden, Andrei Irimia, Kimbra Kenney, Inga K Koerte, William S Kremen, Harvey S Levin, Hannah M Lindsey, Rajendra A Morey, Mary R Newsome, John Ollinger, Mary Jo Pugh, Randall S Scheibel, Martha E Shenton, Danielle R Sullivan, Brian A Taylor, Maya Troyanskaya, Carmen Velez, Benjamin SC Wade, Xin Wang, Ashley L Ware, Ross Zafonte, Paul M Thompson. Elisabeth A Wilde (2020). Coordinating Global Multi-Site Studies of Military-Relevant Traumatic Brain Injury: Opportunities, Challenges, and Harmonization Guidelines, submitted to *Brain Imaging & Behavior*, Dec. 20 2019, pre-print available here: <https://psyarxiv.com/d4qs8/>
- 913.**Sage Hahn; Scott Mackey; Janna Cousijn; John J. Foxe; Robert Hester; Kent Hutchinson; Ozlem Korucuoglu; Edythe London; Valentina Lorenzetti; Maartje Luijten; Reza Momenan; Catherine Orr; Martin Paulus; Lianne Schmaal; Rajita Sinha; Zsuzsika Sjoerds; Dan J. Stein; Elliot Stein; Ruth J. van Holst; Dick Veltman; Reinout W. Wiers; Murat Yucel; Paul M. Thompson; Patricia Conrod; Nicholas Allgaier; Hugh Garavan (2020). **Predicting Alcohol Dependence from Multi-Site Brain Structural Measures**, submitted to *Biological Psychiatry*, Dec. 31 2019.
- 914.**Priya Rajagopalan MBBS<sup>1</sup>, ..., Christina P. Boyle, Neda Jahanshad PhD, **Paul M. Thompson PhD<sup>1,5</sup>**, ..., for the **Alzheimer's Disease Neuroimaging Initiative\*** (2020). Association of elevated plasma cortisol levels with smaller brain subcortical volumes, to be **submitted, Jan. 2020**.
- 915.**Satizabal CL, Adams HHH, Hibar DP, White CC, Knol MJ, Stein JL, Scholz M, Sargurupremraj M, Jahanshad N, Roshchupkin GV, Smith AV, Bis JC, Jian X, Luciano M, Hofer E, Teumer A, van der Lee SJ, Yang J, Yanek LR, Lee TV, Li S, Hu Y, Koh JY, Eicher JD, Desrivieres S, Arias-Vasquez A, Chauhan G, Athanasiu L, Renteria ME, Kim S, Hoehn D, Armstrong NJ, Chen Q, Holmes AJ, den Braber A, Kloszewska I, Andersson M, Espeseth T, Grimm O, Abramovic L, Alhusaini S, Milanesechi Y, Pappmeyer M, Axelsson T, Ehrlich S, Roiz-Santiañez R, Kraemer B, Håberg AK, Jones HJ, Pike GB, Stein DJ, Stevens A, Bralten J, Vernooij MW, Harris TB, Filippi I, Witte AV, Guadalupe T, Wittfeld K, Mosley TH, Becker JT, Doan NT, Hagenaars SP, Saba Y, Cuellar-Partida G, Amin N, Hilal S, Nho K, Mirza-Schreiber N, Arfanakis K, Becker DM, Ames D, Goldman AL, Lee PH, Boomsma DI, Lovestone S, Giddaluru S, Le Hellard S, Mattheisen M, Bohlken MM, Kasperaviciute D, Schmaal L, Lawrie SM, Agartz I, Walton E, Tordesillas-Gutierrez D, Davies GE, Shin J, Ipser JC, Vinke LN, Hoogman M, Jia T, Burkhardt R, Klein M, Crivello F, Janowitz D, Carmichael O, Haukvik UK, Aribisala BS, Schmidt H, Strike LT, Cheng CY, Risacher SL, Pütz B, Fleischman DA, Assareh AA, Mattay VS, Buckner RL, Mecocci P, Dale AM, Cichon S, Boks MP, Matarin M, Penninx BWJH, Calhoun VD, Chakravarty MM, Marquand AF, Macare C, Kharabian Masouleh S, Oosterlaan J, Amouyel P, Hegenscheid K, Rotter JI, Schork AJ, Liewald DCM, de Zubicaray GI, Wong TY, Shen L, Sämann PG, Brodaty H, Roffman JL, de Geus EJC, Tsohaki M, Erk S, van Eijk KR, Cavalleri GL, van der Wee NJA, McIntosh AM, Gollub RL, Bulayeva KB, Bernard M, Richards JS, Himali JJ, Loeffler M, Rommelse N, Hoffmann W, Westlye LT, Valdés Hernández MC, Hansell NK, van Erp TGM, Wolf C, Kwok JBJ, Vellas B, Heinz A, Olde Loohuis LM, Delanty N, Ho BC, Ching CRK, Shumskaya E, Singh B, Hofman

- A, van der Meer D, Homuth G, Psaty BM, Bastin ME, Montgomery GW, Foroud TM, Reppermund S, Hottenga JJ, Simmons A, Meyer-Lindenberg A, Cahn W, Whelan CD, van Donkelaar MMJ, Yang Q, Hosten N, Green RC, Thalamuthu A, Mohnke S, Hulshoff Pol HE, Lin H, Jack CR Jr, Schofield PR, Mühleisen TW, Maillard P, Potkin SG, Wen W, Fletcher E, Toga AW, Gruber O, Huentelman M, Davey Smith G, Launer LJ, Nyberg L, Jönsson EG, Crespo-Facorro B, Koen N, Greve DN, Uitterlinden AG, Weinberger DR, Steen VM, Fedko IO, Groenewold NA, Niessen WJ, Toro R, Tzourio C, Longstreth WT Jr, Ikram MK, Smoller JW, van Tol MJ, Sussmann JE, Paus T, Lemaître H, Schroeter ML, Mazoyer B, Andreassen OA, Holsboer F, Depondt C, Veltman DJ, Turner JA, Pausova Z, Schumann G, van Rooij D, Djurovic S, Deary IJ, McMahon KL, Müller-Myhsok B, Brouwer RM, Soininen H, Pandolfo M, Wassink TH, Cheung JW, Wolfers T, Martinot JL, Zwiers MP, Nauck M, Melle I, Martin NG, Kanai R, Westman E, Kahn RS, Sisodiya SM, White T, Saremi A, van Bokhoven H, Brunner HG, Völzke H, Wright MJ, van 't Ent D, Nöthen MM, Ophoff RA, Buitelaar JK, Fernández G, Sachdev PS, Rietschel M, van Haren NEM, Fisher SE, Beiser AS, Francks C, Saykin AJ, Mather KA, Romanczuk-Seiferth N, Hartman CA, DeStefano AL, Heslenfeld DJ, Weiner MW, Walter H, Hoekstra PJ, Nyquist PA, Franke B, Bennett DA, Grabe HJ, Johnson AD, Chen C, van Duijn CM, Lopez OL, Fornage M, Wardlaw JM, Schmidt R, DeCarli C, De Jager PL, Villringer A, Debette S, Gudnason V, Medland SE, Shulman JM, **Thompson PM**, Seshadri S, Ikram MA (2019). [Genetic architecture of subcortical brain structures in 38,851 individuals](#). *Nature Genetics*, 2019 Nov;51(11):1624-1636. doi: 10.1038/s41588-019-0511-y. Epub 2019 Oct 21.
- 916.** Koshiyama D, Fukunaga M, Okada N, Morita K, Nemoto K, Usui K, Yamamori H, Yasuda Y, Fujimoto M, Kudo N, Azechi H, Watanabe Y, Hashimoto N, Narita H, Kusumi I, Ohi K, Shimada T, Kataoka Y, Yamamoto M, Ozaki N, Okada G, Okamoto Y, Harada K, Matsuo K, Yamasue H, Abe O, Hashimoto R, Takahashi T, Hori T, Nakataki M, Onitsuka T, Holleran L, Jahanshad N, van Erp TGM, Turner J, Donohoe G, **Thompson PM**, Kasai K, Hashimoto R; COCORO Consortium. [White matter microstructural alterations across four major psychiatric disorders: mega-analysis study in 2937 individuals](#). *Mol Psychiatry*. 2019 Nov 29. doi: 10.1038/s41380-019-0553-7. [Epub ahead of print].
- 917.** Dennis EL, Disner SG, Fani N, Salminen LE, Logue M, Clarke EK, Haswell CC, Averill CL, Baugh LA, Bomyea J, Bruce SE, Cha J, Choi K, Davenport ND, Densmore M, du Plessis S, Forster GL, Frijling JL, Gonenc A, Gruber S, Grupe DW, Guenette JP, Hayes J, Hofmann D, Ipser J, Jovanovic T, Kelly S, Kennis M, Kinzel P, Koch SBJ, Koerte I, Koopowitz S, Korgaonkar M, Krystal J, Lebois LAM, Li G, Magnotta VA, Manthey A, May GJ, Menefee DS, Nawijn L, Nelson SM, Neufeld RWJ, Nitschke JB, O'Doherty D, Peverill M, Ressler KJ, Roos A, Sheridan MA, Sierk A, Simmons A, Simons RM, Simons JS, Stevens J, Suarez-Jimenez B, Sullivan DR, Théberge J, Tran JK, van den Heuvel L, van der Werff SJA, van Rooij SJH, van Zuiden M, Velez C, Verfaellie M, Vermeiren RRJM, Wade BSC, Wager T, Walter H, Winternitz S, Wolff J, York G, Zhu Y, Zhu X, Abdallah CG, Bryant R, Daniels JK, Davidson RJ, Fercho KA, Franz C, Geuze E, Gordon EM, Kaufman ML, Kremen WS, Lagopoulos J, Lanius RA, Lyons MJ, McCauley SR, McGlinchey R, McLaughlin KA, Milberg W, Neria Y, Olf M, Seedat S, Shenton M, Sponheim SR, Stein DJ, Stein MB, Straube T, Tate DF, van der Wee NJA, Veltman DJ, Wang L, Wilde EA, **Thompson PM**, Kochunov P, Jahanshad N, Morey RA (2019). [Altered white matter microstructural organization in posttraumatic stress disorder across 3047 adults: results from the PGC-ENIGMA PTSD consortium](#). *Mol Psychiatry*. 2019 Dec 19. doi: 10.1038/s41380-019-0631-x. [Epub ahead of print]
- 918.** Megan Campbell, Neda Jahanshad, Mary Mufford, Karmel W. Choi, Phil Lee, Raj Ramesar, Jordan W. Smoller, **Paul M. Thompson**, Dan J. Stein\*, Shareefa Dalvie (2020). Overlap in Genetic Risk for Cross-Disorder Vulnerability to Mental Disorders and Genetic Risk for Altered Subcortical Brain Volumes, to be submitted to **Am J Medical Genetics**, Jan. 2020.
- 919.** Amanda K. Tilot<sup>1</sup>, Ekaterina A. Khramtsova<sup>2</sup>, Katrina Grasby<sup>5</sup>, Neda Jahanshad<sup>6</sup>, Jodie Painter<sup>5</sup>, Lucia Colodro Conde<sup>5</sup>, Janita Bralten<sup>4</sup>, Derrek P. Hibar<sup>7</sup>, Penelope A. Lind<sup>5</sup>, Siyao Liu<sup>3</sup>, Sarah Brotman<sup>3</sup>, **Paul M. Thompson<sup>8</sup>**, Sarah E. Medland<sup>5</sup>, Fabio Macciardi<sup>9</sup>, Barbara E. Stranger<sup>2</sup>, Lea K. Davis<sup>10</sup>, Simon E. Fisher<sup>1,\*</sup>, Jason L. Stein<sup>3\*</sup> (2020). **The Evolutionary History of Genetic Variants Influencing Human Cortical Surface Area**, submitted to *Nature Ecology and Evolution*, Feb 6 2020.

920. André Zugman, Anita Harrewijn, Elise Cardinale, Hannah Zwiebel, Gabrielle Freitag, Katy Werwath, Paul M. Thompson, Daniel S. Pine, Anderson M. Winkler (2020). Mega-Analysis Methods in ENIGMA: The Experience of the Generalized Anxiety Disorder Working Group, to be submitted to **Human Brain Mapping**, Feb. 2020.
921. Clara Moreau<sup>1,2</sup>, Guillaume Huguet<sup>1</sup>, Sebastian Urchs<sup>2,3</sup>, Elise Douard<sup>1</sup>, Hanad Sharmarke<sup>2</sup>, Pierre Orban<sup>4,5</sup>, Aurélie Labbe<sup>6</sup>, Claudia Modenato<sup>1,7</sup>, Kumar Kuldeep<sup>1</sup>, Ana Dos Santos Silva<sup>8,9</sup>, Charles-Olivier Martin<sup>1</sup>, Khadije Jizi<sup>1</sup>, Nadine Younis<sup>1</sup>, Petra Tamer<sup>1</sup>, Jean-Louis Martineau<sup>1</sup>, Aia E. Jønch<sup>x</sup>, Julie Boyle<sup>2</sup>, Sandra Martin-Brevet<sup>10</sup>, Amy Lin<sup>11</sup>, Simons VIP Foundation<sup>12</sup>, David E. J. Linden<sup>8,9</sup>, Anne Maillard<sup>7</sup>, Carrie E. Bearden<sup>11</sup>, Paul M. Thompson<sup>13</sup>, **Pierre Bellec<sup>2†</sup>**, and **Sebastien Jacquemont** (2020). Genomic dosage associated with neuropsychiatric conditions affects connectivity along a parsimonious set of connectivity dimensions, **to be submitted to Science Translational Medicine**, March 2020.
922. **Ida Elken Sønderby<sup>1</sup>**, **Ómar Gústafsson<sup>2</sup>**, **Nhat Trung Doan<sup>1</sup>**, **Derrek Paul Hibar<sup>3-5</sup>**, **Dennis van der Meer<sup>1</sup>**, **Lars T. Westlye<sup>1,6-7</sup>**, **Srdjan Djurovic<sup>1</sup>**, **Paul M. Thompson<sup>3</sup>**, **Ole A. Andreassen<sup>1\*</sup>** for the ENIGMA-CNV working group (2020). 1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans, **submitted to Molecular Psychiatry, 2020**.
923. Jeanne Leerssen<sup>1</sup>, Tessa F. Blanken<sup>1</sup>, Elena Pozzi<sup>2,3</sup>, Neda Jahanshad<sup>4</sup>, Lyubomir Aftanas<sup>5,6</sup>, Bernhard T. Baune<sup>7</sup>, Udo Dannlowski<sup>8</sup>, Thomas Frodl<sup>9,10</sup>, Beata R. Godlewska<sup>11</sup>, Ian H. Gotlib<sup>12</sup>, Dominik Grotegerd<sup>8</sup>, Oliver Gruber<sup>13</sup>, Sean N. Hatton<sup>14</sup>, Ian B. Hickie<sup>14</sup>, Benson Irunge<sup>15</sup>, Natalia Jaworska<sup>16</sup>, Tilo Kircher<sup>17</sup>, Axel Krug<sup>17</sup>, Jim Lagopoulos<sup>14,18</sup>, Meng Li<sup>19</sup>, Frank P. MacMaster<sup>16,20</sup>, Andrew M. McIntosh<sup>21,22</sup>, Evgeny Osipov<sup>23</sup>, Maria J. Portella<sup>24,25</sup>, Matthew D. Sacchet<sup>26</sup>, Philipp G. Saemann<sup>27</sup>, Egle Simulionyte<sup>13</sup>, Jair C. Soares<sup>28</sup>, Martin Walter<sup>29</sup>, Heather C. Whalley<sup>21</sup>, Dick Veltman<sup>30,31,32</sup>, Paul M. Thompson<sup>4</sup>, Lianne Schmaal<sup>3,34</sup>, Eus J.W. van Someren (2020). **Brain structural correlates of insomnia severity in 1053 individuals with Major Depressive Disorder: Results from the ENIGMA Major Depressive Disorder Working Group, submitted to Molecular Psychiatry, April 3 2020**.
924. Kochunov, Peter; Hong, L. Elliot; Dennis, Emily; Morey, Rajendra; Tate, David ; Wilde, Elisabeth; Logue, Mark; Kelly, Sinead; Donohoe, Gary; Favre, Pauline; Houenou, Josselin ; Ching, Christopher; Holleran, Laurena; Andreassen, Ole; van Velzen, Laura; Schmaal, Lianne; Villalon, Julio; Bearden, Carrie; Piras, Fabrizio; Spalletta, Gianfranco; van den Heuvel, Odile; Veltman, Dick; Stein, Dan; Ryan, Meghann; Tan, Yunlong; van Erp, Theo; Turner, Jessica; Haddad, Liz; Nir, Talia; Glahn, David; Thompson, Paul; Jahanshad, Neda (2020). ENIGMA-DTI: Translating reproducible white matter deficits into personalized vulnerability metrics in cross-diagnostic psychiatric research, revised version submitted to **Human Brain Mapping**, March 6 2020.
925. Willem B. Bruin<sup>1\*</sup>, M.Sc., Luke Taylor<sup>2</sup>, B.Sc., Rajat M. Thomas<sup>1</sup>, Ph.D., Jonathan P Shock<sup>3</sup>, Ph.D., Paul Zhutovsky<sup>1</sup>, M.Sc., Yoshinari Abe<sup>4</sup>, M.D., Ph.D., Pino Alonso<sup>5</sup>, M.D., Ph.D., Stephanie H. Ameis<sup>6</sup>, M.D., M.Sc., Alan Anticevic<sup>7</sup>, Ph.D., Paul D. Arnold<sup>8</sup>, M.D., Ph.D., Francesca Assogna<sup>9</sup>, Ph.D., Francesco Benedetti<sup>10</sup>, M.D., Jan C. Beucke<sup>11</sup>, Ph.D., Premika S.W. Boedhoe<sup>12</sup>, Ph.D., Irene Bollettini<sup>10</sup>, Ph.D., Anushree Bose<sup>13</sup>, Ph.D., Silvia Brem<sup>14</sup>, Ph.D., Brian P. Brennan<sup>15</sup>, M.D., M.M.Sc., Jan K Buitelaar<sup>16</sup>, M.D., Ph.D., Rosa Calvo<sup>17</sup>, M.D., Ph.D., Yuqi Cheng<sup>18</sup>, Ph.D., Kang Ik K. Cho<sup>19</sup>,

Ph.D., Sara Dallspezia<sup>10</sup>, M.D., Damiaan Denys<sup>1</sup>, M.D., Ph.D., Benjamin A. Ely<sup>20</sup>, Ph.D., Jamie D. Feusner<sup>21</sup>, M.D., Kate D. Fitzgerald<sup>22</sup>, M.D., Jean-Paul Fouche<sup>23</sup>, Ph.D., Egill A. Fridgeirsson<sup>1</sup>, M.Sc., Patricia Gruner<sup>7</sup>, Ph.D., Deniz A. Gürsel<sup>24</sup>, M.Sc., Tobias U. Hauser<sup>14</sup>, Ph.D., Yoshiyuki Hirano<sup>25</sup>, Ph.D., Marcelo Q. Hoexter<sup>26</sup>, M.D., Ph.D., Hao Hu<sup>27</sup>, Ph.D., Chaim Huyser<sup>28</sup>, M.D., Ph.D., Iliyan Ivanov<sup>29</sup>, M.D., Anthony James<sup>30</sup>, MRCP, MRPsych, Fern Jaspers-Fayer<sup>31</sup>, Ph.D., Norbert Kathmann<sup>11</sup>, Ph.D., Christian Kaufmann<sup>11</sup>, Ph.D., Kathrin Koch<sup>24</sup>, Ph.D., Masaru Kuno<sup>25</sup>, M.D., Ph.D., Gerd Kvale<sup>32</sup>, Ph.D., Jun Soo Kwon<sup>33</sup>, M.D., Ph.D., Yanni Liu<sup>22</sup>, Ph.D., Christine Lochner<sup>34</sup>, Ph.D., Luisa Lázaro<sup>17</sup>, M.D., Ph.D., Paulo Marques<sup>35</sup>, Ph.D., Rachel Marsh<sup>36</sup>, Ph.D., Ignacio Martínez-Zalacain<sup>5</sup>, M.Sc., David Mataix-Cols<sup>37</sup>, Ph.D., José M. Menchón<sup>5</sup>, M.D., Ph.D., Luciano Minuzzi<sup>38</sup>, M.D., Ph.D., Pedro S. Moreira<sup>35</sup>, M.Sc., Astrid Morer<sup>17</sup>, M.D., Ph.D., Pedro Morgado<sup>35</sup>, M.D., Ph.D., Akiko Nakagawa<sup>25</sup>, M.D., Ph.D., Takashi Nakamae<sup>4</sup>, M.D., Ph.D., Tomohiro Nakao<sup>39</sup>, M.D., Ph.D., Janardhanan C. Narayanaswamy<sup>13</sup>, M.D., Erika L. Nurmi<sup>21</sup>, M.D., Ph.D., Joseph O'Neill<sup>40</sup>, Ph.D., Jose C. Pariente<sup>41</sup>, M.Sc., Chris Perriello<sup>15</sup>, B.Sc., John Piacentini<sup>21</sup>, Ph.D., Fabrizio Piras<sup>9</sup>, Ph.D., Federica Piras<sup>9</sup>, Ph.D., Y.C. Janardhan Reddy<sup>13</sup>, M.D., Oana G. Rus-Oswald<sup>42</sup>, Ph.D., Yuki Sakai<sup>43</sup>, M.D., Ph.D., João R. Sato<sup>44</sup>, Ph.D., Lianne Schmaal<sup>45</sup>, Ph.D., Eiji Shimizu<sup>25</sup>, M.D., Ph.D., H. Blair Simpson<sup>36</sup>, M.D., Ph.D., Noam Soreni<sup>46</sup>, M.D., Carles Soriano-Mas<sup>5</sup>, Ph.D., Gianfranco Spalletta<sup>9</sup>, M.D., Ph.D., Emily R. Stern<sup>47</sup>, Ph.D., Michael C. Stevens<sup>48</sup>, Ph.D., S. Evelyn Stewart<sup>31</sup>, M.D., Philip R. Szeszko<sup>49</sup>, Ph.D., David F. Tolin<sup>50</sup>, Ph.D., Ganesan Venkatasubramanian<sup>13</sup>, M.D., Ph.D., Zhen Wang<sup>27</sup>, M.D., Ph.D., Je-Yeon Yun<sup>51</sup>, M.D., Ph.D., Daan van Rooij<sup>52</sup>, ENIGMA-OCD consortium\*\*, Ph.D., Paul M. Thompson<sup>53</sup>, Ph.D., Odile A. van den Heuvel<sup>12</sup>, M.D., Ph.D., Dan J. Stein<sup>54</sup>, M.D., Ph.D., Guido A. van Wingen<sup>1</sup>, Ph.D. (2020). Structural neuroimaging biomarkers for obsessive-compulsive disorder in the ENIGMA-OCD consortium: medication matters, **Nature Communications**, submitted, March 13 2020.

926.Radua J et al. (2020). Increased power by harmonizing structural MRI site differences with the ComBat batch adjustment method in ENIGMA, **Neuroimage**, in press, May 2020.

927.Qunxi Dong PhD†, Jie Zhang BS†, Qingyang Li PhD, Junwen Wang PhD, Natasha Leporé PhD, Paul M. Thompson PhD, Richard J. Caselli MD, Jieping Ye PhD, Yalin Wang PhD, for the Alzheimer's Disease Neuroimaging Initiative\* (2019). Multi-task Dictionary Learning-based Convolutional Neural Networks for Cognitive Decline Prediction with Longitudinal Images, **Journal of Alzheimer's Disease**, accepted with minor revision, March 2020.

928.Rongfeng Qi<sup>1\*</sup>, M.D., Wei Chen<sup>2,3\*</sup>, M.D., Saiduo Liu<sup>4</sup>, M.D., **Paul M. Thompson**<sup>5</sup>, Ph.D., Long Jiang Zhang<sup>1</sup>, M.D., Fei Xia<sup>1</sup>, M.S., Fang Cheng<sup>4</sup>, M.D., Ailing Hong<sup>4\*</sup>, M.D., Wesley Surento<sup>5</sup>, M.S., Song Luo, M.S., Zhi Yuan Sun<sup>1</sup>, M.D., Chang Sheng Zhou<sup>1</sup>, B.S., Lingjiang Li<sup>6</sup>, M.D., Xiangao Jiang<sup>4</sup>, M.D., Guang Ming Lu<sup>1\*</sup>, M.D. (2020). **Psychological morbidities and fatigue in patients with confirmed COVID-19 during disease outbreak: prevalence and associated biopsychosocial risk factors**, submitted to Emerging Infectious Diseases, March 15 2020.

929.Moreau C., Urchs S., Huguet G., Sharmarke H., Modenato C., Douard E., Dos Santos Silva A., Linden D., Thompson P.M., Lippe S., Bearden C., Maillard A., Bellec P.\* , Jacquemont S.\* (2020). The general impact of haploinsufficiency on brain connectivity underlies the pleiotropic effect of neuropsychiatric CNVs, submitted to **Science Translational Medicine**, March 16 2020.

930.Jennifer K. Forsyth,<sup>1,2</sup> Eva Mennigen,<sup>1,2,3</sup> Amy Lin,<sup>1,2,4</sup> Daqiang Sun,<sup>1,2,5</sup> Ariana Vajdi,<sup>1,2</sup> Leila Kushan-Wells,<sup>1,2</sup> Christopher R. K. Ching,<sup>6</sup> Julio E. Villalon Reina,<sup>6</sup> 22q11.2 ENIGMA Consortium, **Paul M. Thompson**,<sup>6</sup>

Carrie E. Bearden (2020). DGCR8, AIFM3, and P2RX6 are Prioritized Drivers of Cortical Alterations in 22q11.2 Deletion Syndrome, to be submitted, March 2020.

931. Qunxi Dong, Ph.D.; Wen Zhang, M.S.; Cynthia M Stonnington, M.D.; Jianfeng Wu, B.S.; Boris A Gutman, Ph.D.; Kewei Chen, Ph.D.; Yi Su, Ph.D.; Leslie C Baxter, Ph.D.; **Paul M Thompson**, Ph.D.; Eric M Reiman, M.D.; Richard J Caselli, M.D.; Yalin Wang (2020). Applying Surface-Based Morphometry to Study Ventricular Abnormalities of Cognitively Unimpaired Subjects Prior to Clinically Significant Memory Decline, submitted to **NeuroImage: Clinical**, March 20 2020.

932. Yash Patel, Nadine Parker, Jean Shin, Derek Howard, Leon French, Sophia Thomopoulos, Elena Pozzi, Yoshinari Abe, Christoph Abé, Anticevic Alan, Martin Alda, André Aleman, Clara Alloza, Silvia Alonso-Lana, Stephanie Ameis, Evdokia Anagnostou, McIntosh Andrew, Celso Arango, Paul Arnold, Philip Asherson, Francesca Assogna, Guillaume Auzias, Rosa Ayesa-Arriola, Geor Bakker, Nerisa Banaj, Tobias Banaschewski, Cibele Edom Bandeira, Alexandr Baranov, Núria Bargalló, Claiton Bau, Sarah Baumeister, Bernhard Baune, Mark Bellgrove, Francesco Benedetti, Alessandro Bertolino, Premika Boedhoe, Marco PM Boks, Irene Bollettini, Caterina del Mar Bonnin, Tiana Borgers, Stefan Borgwardt, Daniel Brandeis, Brian Brennan, Jason Bruggemann, Robin Bülow, Geraldo Busatto, Sara Calderoni, Vince Calhoun, Rosa Calvo, Erick Canales-Rodríguez, Dara Cannon, Vaughan Carr, Nicola Cascella, Mara Cercignani, Tiffany Chaim-Avancini, Anastasia Christakou, David Coghill, Annette Conzelmann, Benedicto Crespo-Facorro, Ana Cubillo, Kathryn Cullen, Renata Basso Cupertino, Eileen Daly, Udo Dannlowski, Christopher Davey, Damiaan Denys, Christine Deruelle, Annabella Di Giorgio, Erin Dickie, Danai Dima, Katharina Dohm, Stefan Ehrlich, Benjamin Ely, Tracy Erwin-Grabner, Thomas Ethofer, Damien Fair, Andreas Fallgatter, Stephen Faraone, Mar Fatjó-Vilas, Jennifer Fedor, Kate Fitzgerald, Judith Ford, Thomas Frodl, Cynthia Fu, Janice Fullerton, Matt Gabel, David Glahn, Roberts Gloria, Tinatin Gogberashvili, Jose Goikolea, Ian Gotlib, Roberto Goya-Maldonado, Hans Grabe, Melissa Green, Eugênio Grevet, Nynke Groenewold, Dominik Grotegerd, Oliver Gruber, Patricia Gruner, Amalia Guerrero-Pedraza, Raquel Gur, Ruben Gur, Shlomi Haar, Bartholomeus Haarman, Jan Haavik, Tim Hahn, Tomas Hajek, Ben Harrison, Neil Harrison, Catharina Hartman, Whalley Heather, Dirk Heslenfeld, Eva Hilland, Yoshiyuki Hirano, Tiffany Ho, Pieter Hoekstra, Liesbeth Hoekstra, Sarah Hohmann, Elliot Hong, Cyril Höschl, Marie Høvik, Fleur Howells, Nenadic Igor, Maria Jalbrzikowski, Anthony James, Joost Janssen, Fern Jaspers-Fayer, Xu Jian, Rune Jonassen, Georgii Karkashadze, Joseph King, Tilo Kircher, Matthias Kirschner, Kathrin Koch, Peter Kochunov, Gregor Kohls, Kerstin Konrad, Bernd Krämer, Axel Krug, Jonna Kuntsi, Jun Soo Kwon, Mikael Landén, Nils Inge Landrø, Luisa Lazaro, Irina Lebedeva, Elisabeth Leehr, Sara Lera-Miguel, K Lesch, C Lochner, Mario Louza, Beatriz Luna, Astri Lundervold, Frank MacMaster, Charles Malpas, Portella Maria, Rachel Marsh, Fiona Martyn, David Mataix-Cols, Daniel Mathalon, Hazel McCarthy, Colm McDonald, Genevieve McPhilemey, Susanne Meinert, José Menchón, Luciano Minuzzi, Carmen Moreno, Pedro Morgado, Filippo Muratori, Clodagh Murphy, Declan Murphy, Benson Mwangi, Leila Nabulsi, Akiko Nakagawa, Takashi Nakamae, Leyla Namazova, Janardhanan Narayanaswamy, Dana Nguyen, Rosa Nicolau, Ruth O'Gorman Tuura, Kirsten O'Hearn, Jaap Oosterlaan, Nils Opel, Roel Ophoff, Bob Oranje, Victor Ortiz-García de la Foz, Bronwyn Overs, YANNIS PALOYELIS, Mara Parellada, Paul Pauli, Mitchell Philip, Maria Picó-Pérez, Felipe Picon, Fabrizio Piras, Federica Piras, Kerstin Plessen, Edith Pomarol-Clotet, Adrian Preda, Olga Puig, Yann Quidé, Joaquim Radua, Antoni Ramos-Quiroga, Paul Rasser, Lisa Rauer, Janardhan Reddy, Ronny Redlich, Andreas Reif, Liesbeth Reneman, Jonathan Repple, Alessandra Retico, Vanesa Richarte, Anja Richter, Pedro Rosa, Katya Rubia, Hashimoto Ryota, Matthew Sacchet, Raymond Salvador, Javier Santonja, Kelvin Sarink, Salvador Sarró, Theodore Satterthwaite, Akira Sawa, Ulrich Schall, Peter Schofield, Anouk Schranter, Jochen Seitz, Mauricio Serpa, Esther Setién-Suero, Philip Shaw, Devon Shook, Tim Silk, Kang Sim, Simon Schmitt, Aditya Singh, Antonin Skoch, Norbert Skokauskas, Jair Soares, Noam Soreni, Carles Soriano-Mas, Gianfranco Spalletta, Filip Spaniel, Lawrie Stephen, Emily Stern, S. Stewart, Yoichiro Takayanagi, Henk Temmingh, David Tolin, David Tomecek, Diana Tordesillas-Gutiérrez, Michela Michela, Anne Uhlmann, Therese van Amelsvoort, Nic van der Wee, Steven van der Werff, Neeltje van Haren, Guido van Wingen, Alasdair Vance, Javier Vázquez-Bourgon, Daniela Vecchio, Ganesan Venkatasubramanian, Eduard Vieta, Oscar Vilarroya, Yolanda Vives-Gilbert, Aristotle Voineskos, Henry Völzke, Georg von Polier, Thomas Weickert, Cynthia Weickert, Andrea Weideman, Katharina Wittfeld, Daniel Wolf, Mon-Ju Wu, Tony Yang, Kun Yang, Yuliya Yoncheva, Je-Yeon Yun, Cheng Yuqi, Marcus Zanetti, Georg Ziegler, Derrek Hibar, Buitelaar Jan, Barbara Franke, Ole Andreassen, Dick J. Veltman, Dan Stein, Jessica Turner, Martine

- Hoogman , Daan van Rooij , Lianne Schmaal , Odile van den Heuvel , Christopher Ching , Theo van Erp , Jahanshad Neda , Zdenka Pausova , Paul Thompson , Tomas Paus (2020). Virtual histology of cortical thickness reveals shared neurobiology underlying six psychiatric disorders: A meta-analysis of 148 cohorts from the ENIGMA Consortium, **JAMA Psychiatry**, in press, July 2020.
- 933.Liza van Eijk, Narelle K Hansell, PhD; Lachlan T Strike, PhD; Baptiste Couvy-Duchesne, PhD; Greig I de Zubicaray, PhD; Paul M Thompson, PhD; Katie L McMahon, PhD; Brendan P Zietsch, PhD; Margaret J Wright, PhD (2020). Region-Specific Sex Differences in the Hippocampus, *Neuroimage*, in press, March 27 2020.
- 934.Max A. Laansma<sup>V1</sup>, Joanna K. Bright<sup>V2</sup>, Sarah Al-Bachari<sup>3-5</sup>, Tim J. Anderson<sup>6</sup>, Francesca Assogna<sup>7</sup>, Katherine A. Baquero<sup>8</sup>, Henk W. Berendse<sup>9</sup>, Jamie Blair<sup>10</sup>, Fernando Cendes<sup>11</sup>, John C. Dalrymple-Alford<sup>12-14</sup>, Rob M. A. de Bie<sup>9</sup>, Ines Debove<sup>15</sup>, Michiel F. Dirks<sup>16,17</sup>, Jason Druzgal<sup>18</sup>, Hedley C. A. Emsley<sup>4,19</sup>, Gäetan Garraux<sup>8,20</sup>, Rachel P. Guimarães<sup>11</sup>, Boris A. Gutman<sup>21</sup>, Rick C. Helmich<sup>16,17</sup>, Johannes Klein<sup>22</sup>, Clare E. Mackay<sup>23</sup>, Corey T. McMillan<sup>24</sup>, Tracy R. Melzer<sup>6,12,14</sup>, Laura M. Parkes<sup>4</sup>, Fabrizio Piras<sup>7</sup>, Toni L. Pitcher<sup>6,12,14</sup>, Kathleen L. Poston<sup>25</sup>, Mario Rango<sup>26</sup>, Letícia F. Ribeiro<sup>11</sup>, Cristiane S. Rocha<sup>11,27</sup>, Christian Rummel<sup>28</sup>, Lucas S. R. Santos<sup>11</sup>, Reinhold Schmidt<sup>29</sup>, Petra Schwingenschuh<sup>30</sup>, Gianfranco Spalletta<sup>7</sup>, Letizia Squarcina<sup>26</sup>, Odile A. van den Heuvel<sup>1,31</sup>, Chris Vriend<sup>1,31</sup>, Jiun-Jie Wang<sup>32,33</sup>, Daniel Weintraub<sup>34</sup>, Roland Wiest<sup>28</sup>, Clarissa L. Yasuda<sup>11</sup>, Neda Jahanshad<sup>2</sup>, Paul M. Thompson<sup>2</sup>, and Ysbrand D. van der Werf<sup>1</sup> (2020). **An International Multi-Center Analysis of Brain Structure across Clinical Stages of Parkinson's Disease: The ENIGMA-Parkinson's Study**, to be submitted to *Lancet Neurology*, April 2020.
- 935.Inga K. Koerte, M.D.; Carrie L. Esopenko, Ph.D., B.A.; Sidney R. Hinds, M.D., M.C.; Martha E. Shenton, Ph.D.; Elena M. Bonke, M.Sc., B.A.; Jeffrey J. Bazarian, M.D., M.P.H.; Kevin C. Bickart, M.D., Ph.D.; Erin D. Bigler, Ph.D.; Sylvain Bouix, Ph.D.; Thomas A. Buckley, Ed.D.; Meeryo C. Choe, M.D.; Paul S Echlin, M.D.; Gill M. Jessica, Ph.D., R.N., F.A.A.N.; Christopher C. Giza, M.D.; Jasmeet Hayes, Ph.D.; Cooper B. Hodges, B.Sc.; Andrei Irimia, Ph.D.; Paula K. Johnson, M.Sc.; Kimbra Kenney, M.D.; Harvey S. Levin, Ph.D., M.A., B.A.; Alex P. Lin, Ph.D.; Hannah M. Lindsey, B.A., M.A., Ph.D.; Michael L. Lipton, M.D.; Jeffrey E Max, M.D.; Andrew R. Mayer, Ph.D.; Timothy B. Meier, Ph.D.; Kian Merchant-Borna, M.P.H., M.B.A.; Tricia Merkley, Ph.D.; Brian D. Mills, Ph.D.; Mary R. Newsome, Ph.D.; Tara Porfido, PT., D.PT.; Jaclyn A. Stephens, Ph.D., OTR; Maria Carmela Tartaglia, M.D., FRCPC; Ashley L. Ware, Ph.D.; Ross D. Zafonte, D.O.; Michael M. Zeineh, M.D., Ph.D.; **Paul M. Thompson, Ph.D.**; David F. Tate, Ph.D.; Emily L. Dennis, Ph.D.; Elisabeth A. Wilde, Ph.D.; David Baron, M.S.Ed., D.O. (2020). "The ENIGMA Sports Injury Working Group - an International Collaboration to Further our Understanding of Sports-Related Brain Injury", submitted to *Brain Imaging & Behavior*, April 10 2020.
- 936.Dirk J.A. Smit\*, Ole A. Andreassen, Dorret I. Boomsma, Scott J. Burwell, David B. Chorlian, Eco J.C. de Geus, Torbjørn Elvåshagen, Reyna L. Gordon, Jeremy Harper, Ulrich Hegerl, Tilman Hensch, William G. Iacono, Philippe Jawinski, Erik G. Jönsson, Jurjen J. Luykx, Cyrille L. Magne, Stephen M. Malone, Sarah E Medland, Hannah Meijs, Jacquelyn L. Meyers, Torgeir Moberget, Christian Sander, Sanjay M Sisodiya, Bernice Porjesz, **Paul M. Thompson**, Catarina E.M. van Beijsterveldt, Edwin van Dellen, Marc Via, Margaret J. Wright (2020). Linking electrophysiological brain activity to neurological and psychiatric liability genes: Large-scale collaborative studies by the ENIGMA-EEG group, submitted to **Brain and Behavior**, April 10 2020.

937. Anita Harrewijn, Elise M. Cardinale, Nynke A. Groenewold, Janna Marie Bas-Hoogendam, Moji Aghajani, ..., Anderson Winkler & Daniel S. Pine (2020). Cortical and Subcortical Brain Structure in Generalized Anxiety Disorder – Findings from the ENIGMA Collaboration, to be submitted to *Biological Psychiatry*, April 24 2020.
938. Priya Rajagopalan, Kwangsik Nho; Shannon L Risacher; Neda Jahanshad; Christina Boyle; Andrew J Saykin; Paul M Thompson (2020). Elevated plasma cortisol associated with larger ventricles and smaller hippocampal volumes - a study in 2 independent elderly cohorts, **Neurobiology of Aging**, submitted, May 3 2020.
939. Kochunov P, Hong E, **Thompson PM** et al. (2020). A White Matter Connection of Schizophrenia and Alzheimer's Disease, **Schizophrenia Bulletin**, in press, June 1 2020.
940. Zhipeng Cao<sup>1</sup>, Jonatan O. Gonzalez<sup>1</sup>, Renata Cupertino<sup>1</sup>, Nathan Schwab<sup>1</sup>, Janna Cousijn<sup>2</sup>, Alain Dagher<sup>3</sup>, John J. Foxe<sup>4</sup>, Anna E. Goudriaan<sup>5</sup>, Robert Hester<sup>6</sup>, Kent Hutchison<sup>7</sup>, Chiang-Shan R. Li<sup>8</sup>, Edythe London<sup>9</sup>, Valentina Lorenzetti<sup>10</sup>, Maartje Luijten<sup>11</sup>, Rocio Martin-Santos<sup>12</sup>, Reza Momenan<sup>13</sup>, Martin P. Paulus<sup>14,15</sup>, Lianne Schmaal<sup>16,17</sup>, Rajita Sinha<sup>18,19</sup>, Zsuzsika Sjoerds<sup>20</sup>, Nadia Solowij<sup>21</sup>, Dan J. Stein<sup>22</sup>, Elliot A. Stein<sup>23</sup>, Ruth J. van Holst<sup>5</sup>, Dick Veltman<sup>24</sup>, Reinout W. Wiers<sup>25,26</sup>, Murat Yücel<sup>27,28</sup>, **Paul M. Thompson**<sup>29</sup>, Patricia Conrod<sup>30</sup>, Scott Mackey<sup>1</sup>, Hugh Garavan<sup>1</sup>, the ENIGMA Addiction Working Group (2020). Mapping cortical and subcortical asymmetries in substance dependence: Findings from the ENIGMA Addiction Working Group, revised version submitted to *Addiction Biology*, Dec. 21 2020.
941. Xinran Wu; Xiangzhen Kong; Zhaowen Liu; Kai Zhang; Jianfeng Feng; Paul Thompson; Jie Zhang (2021). **Dynamic architecture of brain lateralization at rest, submitted to PLOS Biology, Nov. 2021.**
942. Ian Harding; Sidhant Chopra; Filippo Arrigoni; Sylvia Boesch; Arturo Brunetti; Sirio Cocozza; Louise Corben; Andreas Deistung; Martin Delatycki; Stefano Diciotti; Imis Dogan; Stefania Evangelisti; Marcondes Franca; Sophia Goricke; Nellie Georgiou-Karistianis; Laura Gramegna; Pierre-Gilles Henry; Carlos Hernandez-Castillo; Diane Hunter; Neda Jahanshad; James Joers; Christophe Lenglet; Raffaele Lodi; David Manners; Alberto Martinez; Andrea Martinuzzi; Chiara Marzi; Mario Mascalchi; Wolfgang Nachbauer; Chiara Pane; Denis Peruzzo; Pramod Pisharady; Giuseppe Pontillo; Kathrin Reetz; Thiago Rezende; Sandro Romanzetti; Francesco Sacca; Christoph Scherfler; Jorg Schulz; Ambra Stefani; Claudia Testa; Sophia Thomopoulos; Dagmar Timmann; Stefania Tirelli; Caterina Tonon; Marinela Vavla; Gary Egan; Paul Thompson (2020). Brain Structure and Disease Staging in Friedreich Ataxia: MRI Volumetrics from the ENIGMA-Ataxia Consortium, **submitted to Lancet Neurology, Nov 11 2020.**
943. Gaelle E. Doucet<sup>1,2\*</sup>, Loic Labache<sup>3</sup>, Paul M. Thompson<sup>4</sup>, Marc Joliot<sup>3</sup>, Sophia Frangou<sup>1,5</sup> (2020). **Atlas55+: Brain Functional Atlas of Resting-state Networks for Late Adulthood, to be submitted, July 6 2020.**

944. Shan Luo<sup>1, 2,5</sup>, Brendan Angelo<sup>1,2</sup>, Ting Chow<sup>3</sup>, John Monterosso<sup>4,5</sup>, Anny Xiang<sup>3</sup>, Paul M. Thompson<sup>6</sup>, Kathleen A. Page<sup>\*1,2,4</sup> The Role of Parental BMI on Brain Food Cue Reactivity in Children: A Preliminary Study, to be submitted, July 2020.
945. Sean McWhinney, Chris Ching, . . . ., [ENIGMA Bipolar Disorder working group], Ole Andreassen, Paul Thompson, Tomas Hajek (2020) Association between obesity and subcortical volumes in bipolar disorders – ENIGMA study in 2,735 individuals, to be submitted to *Molecular Psychiatry*, July 2020.
946. Jean-Paul Fouché<sup>1</sup>, Nynke A. Groenewold<sup>1</sup>, Tatum Sevenoaks<sup>1</sup>, Sarah Heany<sup>1</sup>, Christine Lochner<sup>2</sup>, Pino Alonso<sup>3,4,5</sup>, Marcelo Batistuzzo<sup>6</sup>, Narcis Cardoner<sup>3,4</sup>, Christopher R. K. Ching<sup>7</sup>, Niels T. de Joode<sup>8</sup>, Stella J. de Wit<sup>9</sup>, Boris Gutman<sup>9</sup>, Marcelo Q. Hoexter<sup>9</sup>, Neda Jahanshad<sup>7</sup>, Minah Kim<sup>10</sup>, Jun Soo Kwon<sup>10,11</sup>, David Mataix-Cols<sup>12</sup>, Jose M. Menchon<sup>3,4</sup>, Euripedes C. Miguel<sup>6</sup>, Takashi Nakamae<sup>13</sup>, Mary L. Phillips<sup>14</sup>, Jesus Pujol<sup>15</sup>, Yuki Sakai<sup>13</sup>, Je-Yeon Yun<sup>10</sup>, Carles Soriano-Mas<sup>3,4,5</sup>, Paul M. Thompson<sup>7</sup>, Kei Yamada<sup>17</sup>, Dick J. Veltman<sup>8</sup>, Odile A. van den Heuvel<sup>8</sup>, Dan J. Stein<sup>1,2</sup> (2020). **Shape analysis of subcortical structures in obsessive-compulsive disorder: A multi-site analysis of the OCD Brain Imaging Consortium, to be submitted, July 2020.**
947. Shi, Lei; Tao, Jun; Hu, Junnan; Tan, Zhihao; Ding, Jiayan; Jin, Yan; Wu, Yanjun; **Thompson, Paul** (2020). MV2Net: Multi-Variate Multi-View Brain Network Comparison over Uncertain Data, submitted to **IEEE Transactions on Visualization and Computer Graphics**, July 26 2020.
948. Emily L Dennis<sup>1,2</sup>, Karen Caeyenberghs<sup>3</sup>, Kristen R Hoskinson<sup>4,5</sup>, Tricia L Merkley<sup>1,6,7</sup>, Stacy J Suskauer<sup>8,9</sup>, Robert F Asarnow<sup>10-12</sup>, Talin Babikian<sup>10,13</sup>, Brenda Bartnik-Olson<sup>14</sup>, Kevin Bickart<sup>13,15</sup>, Erin D Bigler<sup>1,6,7</sup>, Linda Ewing-Cobbs<sup>16</sup>, Anthony Figaji<sup>17,18</sup>, Christopher C Giza<sup>13,19,20</sup>, Naomi J Goodrich-Hunsaker<sup>1,2,6</sup>, Cooper B Hodges<sup>6,21</sup>, Andrei Irimia<sup>22,23</sup>, Marsh Königs<sup>24</sup>, Harvey S Levin<sup>25,26</sup>, Jeffrey E Max<sup>27,28</sup>, Mary R Newsome<sup>25,26</sup>, Alexander Olsen<sup>29,30</sup>, Nicholas P Ryan<sup>3,31,32</sup>, Adam T Schmidt<sup>33</sup>, Matthew S Spruiell<sup>25</sup>, Ashley L Ware<sup>34</sup>, Christopher G Watson<sup>16</sup>, Anne L Wheeler<sup>35,36</sup>, Keith Owen Yeates<sup>34,37,38</sup>, Brandon A Zielinski<sup>1,39</sup>, Peter Kochunov<sup>40</sup>, Neda Jahanshad<sup>41</sup>, Paul M Thompson<sup>41,42</sup>, David F Tate<sup>1,2</sup>, Elisabeth A Wilde<sup>1,2,25</sup> (2020). White Matter Disruption after Pediatric Traumatic Brain Injury: Results from the ENIGMA Pediatric Moderate/Severe TBI Working Group, revised version submitted to **Neurology**, Dec. 21 2020.
949. Meghann C. Ryan<sup>1</sup>, L. Elliot Hong<sup>1</sup>, Kathryn Hatch<sup>1</sup>, Neda Jahanshad<sup>2</sup>, Thomas E. Nichols<sup>3</sup>, Paul M. Thompson<sup>2</sup>, Peter Kochunov (2020). **The Additive Impact of Metabolic Disorders and Psychiatric Illnesses on Accelerated Brain Aging, to be submitted, Aug. 2020.**
950. Jie Zhang; Qunxi Dong, Ph.D.; Jie Shi, Ph.D.; Qingyang Li, Ph.D.; Cynthia M Stonnington, M.D.; Boris A Gutman, Ph.D.; Kewei Chen, Ph.D.; Eric M Reiman, M.D.; Richard J Caselli, M.D.; Paul M Thompson, Ph.D.; Jieping Ye, Ph.D., Dr. Yalin Wang (2020). Predicting Future Cognitive Decline with Hyperbolic Stochastic Coding, submitted to **Medical Image Analysis**, Aug. 2020.
951. Sean R. McWhinney, PhD<sup>1</sup>, Christoph Abé, PhD<sup>2</sup>, Martin Alda, MD<sup>1</sup>, Francesco Benedetti, MD<sup>3,4</sup>, Erlend Bøen, MD, PhD<sup>5</sup>, Tiana Borgers, MSc<sup>6</sup>, Katharina Brosch, MSc<sup>7</sup>, Erick J. Canales-Rodríguez, PhD<sup>8</sup>, Dara M. Cannon, PhD<sup>9</sup>, Udo Dannlowski, MD, PhD<sup>6</sup>, Ana M. Diaz-Zuluaga, MD<sup>10</sup>, Torbjørn Elvsåshagen, MD, PhD<sup>11,12,13</sup>, Lisa T. Eyler PhD<sup>14,15</sup>, Janice



M. Fullerton, PhD<sup>16,17</sup>, Janik Goltermann, MSc<sup>6</sup>, Dominik Grotegerd, PhD<sup>6</sup>, Bartholomeus C. M. Haarman, MD, PhD<sup>18</sup>, Tim Hahn, PhD<sup>6</sup>, Fleur M. Howells, PhD<sup>19,20</sup>, Martin Ingvar, MD, PhD<sup>2</sup>, Tilo T. J. Kircher, PhD<sup>7</sup>, Axel Krug, PhD<sup>7,21</sup>, Rayus T. Kuplicki, PhD<sup>22</sup>, Mikael Landén, MD<sup>23,24</sup>, Hannah Lemke, MSc, Benny Liberg, MD, PhD<sup>2</sup>, Carlos Lopez-Jaramillo, MD, PhD<sup>10</sup>, Ulrik F. Malt, MD, PhD<sup>5,25</sup>, Fiona M. Martyn, BSc<sup>9</sup>, Elena Mazza, MSc<sup>3,4</sup>, Colm McDonald, MD, PhD<sup>9</sup>, Genevieve McPhilemy, PhD<sup>9</sup>, Sandra Meier, PhD<sup>1</sup>, Susanne Meinert, MSc<sup>6</sup>, Tina Meller, PhD<sup>7,26</sup>, Elisa M. T. Melloni, PhD<sup>3,4</sup>, Philip B. Mitchell, MD<sup>27</sup>, Leila Nabulsi, PhD<sup>9</sup>, Igor Nenadic, MD<sup>7</sup>, Nils Opel, MD<sup>6</sup>, Roel A. Ophoff, PhD<sup>28,29</sup>, Bronwyn J. Overs, BScH<sup>16</sup>, Julia-Katharina Pfarr, MSc<sup>7</sup>, Julian A. Pineda-Zapata, BSc<sup>30</sup>, Edith Pomarol-Clotet, MD, PhD<sup>8</sup>, Joaquim Raduà, MD, PhD<sup>2,31,32</sup>, Jonathan Repple, MD<sup>6</sup>, Maike Richter, MSc<sup>6</sup>, Kai G. Ringwald, MSc<sup>7</sup>, Gloria Roberts, PhD<sup>27</sup>, Raymond Salvador, PhD<sup>8</sup>, Jonathan Savitz, PhD<sup>22,33</sup>, Simon Schmitt, MSc<sup>7</sup>, Peter R. Schofield, DSc, PhD<sup>16,17</sup>, Kang Sim, MD<sup>34,35</sup>, Dan J. Stein, MD, PhD<sup>19,20,36</sup>, Frederike Stein, MA<sup>7</sup>, Henk S. Temmingh, MD, MPH<sup>20</sup>, Katharina Thiel, PhD<sup>6</sup>, Neeltje E. M. van Haren, PhD<sup>37,38</sup>, Holly Van Gestel, MSc<sup>1</sup>, Cristian Vargas, MD<sup>10</sup>, Eduard Vieta, MD, PhD<sup>31</sup>, Annabel Vreeker, PhD<sup>37</sup>, Lena Waltemate, MSc<sup>6</sup>, Lakshmi N. Yatham, EMBA<sup>39</sup>, Christopher R. K. Ching PhD<sup>40</sup>, Ole Andreassen, MD, PhD<sup>11</sup>, Paul M. Thompson, PhD<sup>40</sup>, and Tomas Hajek, MD, PhD (2020). **Association between obesity and subcortical volumes in bipolar disorders–ENIGMA study in 2,735 individuals, to be submitted, Aug. 2020.**

952. Sarah E. Medland<sup>1,2,3</sup>, Katrina L. Grasby<sup>1</sup>, Neda Jahanshad<sup>4</sup>, Jodie N. Painter<sup>1</sup>, Lucía Colodro-Conde<sup>1,2,5,6</sup>, Janita Bralten<sup>7,8</sup>, Derrek P. Hibar<sup>4,9</sup>, Penelope A. Lind<sup>1,5,3</sup>, Fabrizio Pizzagalli<sup>4</sup>, Sophia I. Thomopoulos<sup>4</sup>, Jason L. Stein<sup>10</sup>, Nicholas G. Martin<sup>12</sup>, **Paul M. Thompson** on behalf of the ENIGMA Genetics Working Group (2020). Ten years of Enhancing Neuro-Imaging Genetics through Meta-Analysis: An overview from the ENIGMA Genetics Working Group, to be submitted to **Human Brain Mapping**, Aug. 2020.

953. Ida E Søndersby<sup>1-3</sup>, Christopher RK Ching<sup>4</sup>, Sophia I Thomopoulos<sup>4</sup>, Dennis van der Meer<sup>2,5</sup>, Daqiang Sun<sup>6,7</sup>, Julio E Villalon Reina<sup>4</sup>, Ingrid Agartz<sup>9-10</sup>, Katrin Amunts<sup>11,12</sup>, Celso Arango<sup>13,14</sup>, Nicola J Armstrong<sup>15</sup>, Rosa Ayesa-Arriola<sup>14,16</sup>, Geor Bakker<sup>17,18</sup>, Anne S Bassett<sup>19-212</sup>, Dorret I Boomsma<sup>23,24</sup>, Robin Bülow<sup>25</sup>, Nancy J Butcher<sup>26</sup>, Vince D Calhoun<sup>27</sup>, Svenja Caspers<sup>11,28</sup>, Eva WC Chow<sup>19,212</sup>, Sven Cichon<sup>11,29,30</sup>, Michael C Craig<sup>31</sup>, Benedicto Crespo-Facorro<sup>32</sup>, Adam C Cunningham<sup>33</sup>, Anders M Dale<sup>34,35</sup>, Paola Dazzan<sup>36</sup>, Greig I de Zubicaray<sup>37</sup>, Srdjan Djurovic<sup>1,38</sup>, Joanne L Doherty<sup>39,40</sup>, Gary Donohoe<sup>41</sup>, Bogdan Draganski<sup>42,43</sup>, Courtney A Durdle<sup>44</sup>, Stefan Ehrlich<sup>45</sup>, Beverly S Emanuel<sup>46</sup>, Thomas Espeseth<sup>47,48</sup>, Tian Ge<sup>49,50</sup>, David C Glahn<sup>51,52</sup>, Raquel E Gur<sup>53,54</sup>, Boris A Gutman<sup>55</sup>, **Jan Haavik**, Asta K Håberg<sup>56,57</sup>, Laura A Hansen<sup>58</sup>, Ryota Hashimoto<sup>59,60</sup>, Derrek P Hibar<sup>61</sup>, Avram J Holmes<sup>62,63</sup>, Jouke-Jan Hottenga<sup>23</sup>, Hilleke E Hulshoff Pol<sup>64</sup>, Maria Jalbrzikowski<sup>65</sup>, Emma EM Knowles<sup>60,66</sup>, Leila Kushan<sup>67</sup>, David EJ Linden<sup>68,69</sup>, Jingyu Liu<sup>27,70</sup>, Astri J Lundervold<sup>71</sup>, Sandra Martin-Brevet<sup>42</sup>, Kenia Martínez<sup>13,14,72</sup>, Karen A Mather<sup>73,74</sup>, Samuel R Mathias<sup>52,66</sup>, Donna M McDonald-McGinn<sup>46,75,76</sup>, Allan F McRae<sup>77</sup>, Sarah E Medland<sup>78</sup>, Torgeir Moberget<sup>79</sup>, Claudia Modenato<sup>80</sup>, Jennifer Monereo Sánchez<sup>68,81,82</sup>, Clara A Moreau<sup>83</sup>, Tomas Paus<sup>84,85</sup>, Zdenka Pausova<sup>86</sup>, Carlos Prieto<sup>87</sup>, Anjanibhargavi Ragothaman<sup>88</sup>, Céline S Reinbold<sup>90,89</sup>, Tiago Reis Marques<sup>90,91</sup>, Gabriela M Repetto<sup>92</sup>, Alexandre Reymond<sup>93</sup>, David R Roalf<sup>53</sup>, Borja Rodriguez-Herreros<sup>94</sup>, James J Rucker<sup>36</sup>, Perminder S Sachdev<sup>73,95</sup>, James E Schmitt<sup>96</sup>, Peter R Schofield<sup>74,97</sup>, Ana I Silva<sup>68,98</sup>, Hreinn Stefansson<sup>99</sup>, Dan J Stein<sup>100</sup>, Christian K Tamnes<sup>2,9,101</sup>, Diana Tordesillas-Gutiérrez<sup>14,102</sup>, Magnus O Ulfarsson<sup>99,103</sup>, Ariana Vajdi<sup>67</sup>, Marianne BM van den Bree<sup>99</sup>, Javier Vázquez-Bourgon<sup>14,16,104</sup>, Fidel Vila-Rodríguez<sup>105</sup>, G Bragi Walters<sup>99,106</sup>,

- Wei Wen<sup>73</sup>, Lars T Westlye<sup>3,47,107</sup>, Katharina Wittfeld<sup>108,109</sup>, Elaine H Zackai<sup>46,75</sup>, Kári Stefánsson<sup>99,106</sup>, Sebastien Jacquemont<sup>83,110</sup>, Paul M Thompson<sup>4</sup>, Carrie E Bearden<sup>6,111</sup>, Ole A Andreassen<sup>2</sup> for the ENIGMA-CNV Working Group\* and ENIGMA 22q11.2 Deletion Syndrome Working Group\*\* (2020). ***Effects of copy number variations on brain structure and risk for psychiatric illness: Large-scale studies from the ENIGMA Working Groups on CNVs***, to be submitted to **Human Brain Mapping**, Aug. 2020.
954. Jessica A. Turner [1], Vince D. Calhoun [1,2,3,4], **Paul M. Thompson** [5], Neda Jahanshad [5], Christopher R.K. Ching [5], Sophia I. Thomopoulos [5], Eric Verner [2], Gregory P. Strauss [6], Anthony O. Ahmed [6], Matthew D. Turner [1], [FBIRN authors], and Theo G.M. van Erp (2020). ENIGMA + COINSTAC: Improving Findability, Accessibility, Interoperability, and Re-usability, submitted to **Neurocommons**, Aug. 2020.
955. Salminen LE, Tubi M, Bright J, **Thompson PM** (2020). Sex disparities in psychiatric and neurodegenerative disorders: Insights from large-scale neuroimaging. <https://doi.org/10.31234/osf.io/m59dg> submitted to **Human Brain Mapping**, Aug. 2020; available at psyArXiv - <https://psyarxiv.com/m59dg/>
956. Sarah E. Medland<sup>1,2,3</sup>, Katrina L. Grasby<sup>1</sup>, Neda Jahanshad<sup>4</sup>, Jodie N. Painter<sup>1</sup>, Lucía Colodro-Conde<sup>1,2,5,6</sup>, Janita Bralten<sup>7,8</sup>, Derrek P. Hibar<sup>4,9</sup>, Penelope A. Lind<sup>1,5,3</sup>, Fabrizio Pizzagalli<sup>4</sup>, Sophia I. Thomopoulos<sup>4</sup>, Jason L. Stein<sup>10</sup>, Barbara Franke<sup>7,8</sup>, Nicholas G. Martin<sup>12</sup>, Paul M. Thompson<sup>4</sup> on behalf of the ENIGMA Genetics Working Group (2020). **Ten years of Enhancing Neuro-Imaging Genetics through Meta-Analysis: An overview from the ENIGMA Genetics Working Group**, to be submitted to **Human Brain Mapping**, Sept. 2020.
957. Matthias Kirschner<sup>1,2\*</sup>, Benazir Hodzic-Santor<sup>1\*</sup>, Mathilde Antoniades<sup>3</sup>, Igor Nenadic<sup>4</sup>, Tilo Kircher<sup>4</sup>, Axel Krug<sup>4</sup>, Tina Meller<sup>4</sup>, Dominik Grotegerd<sup>4</sup>, Alex Fornito<sup>5</sup>, Aurina Arnatkeviciute<sup>5</sup>, Mark A Bellgrove<sup>5</sup>, Jeggan Tiego<sup>5</sup>, Udo Dannlowski<sup>6</sup>, Pamela DeRosse<sup>7</sup>, Ashley Moyett<sup>8</sup>, Bernhard Baune<sup>8</sup>, Melissa Green<sup>9</sup>, Yann Quidé<sup>9</sup>, Christos Pantelis<sup>10</sup>, Raymond Chan<sup>11</sup>, Yi Wang<sup>11</sup>, Ulrich Ettinger<sup>12</sup>, Martin Debbané<sup>13</sup>, Melodie Derome<sup>13</sup>, Christian Gaser<sup>14</sup>, Bianca Besteher<sup>14</sup>, Kelly Diederer<sup>3</sup>, Thomas Spencer<sup>3</sup>, Wulf Rössler<sup>15</sup>, Lukasz Smigielski<sup>15</sup>, Veena Kumari<sup>16</sup>, Haeme R. P. Park<sup>17</sup>, Kristina Wiebels<sup>17</sup>, Imke Lemmers<sup>18</sup>, James Gilleen<sup>19</sup>, Paul Allen<sup>19</sup>, Petya Kozuharova<sup>19</sup>, Jan-Bernard Marsman<sup>20</sup>, Irina Lebedeva<sup>21</sup>, Alexander Tomyshev<sup>21</sup>, Stefan Kaiser<sup>22</sup>, Anne-Kathrin Fett<sup>3,23</sup>, Iris Sommer<sup>20</sup>, Casey Paquola<sup>1</sup>, Sara Larivière<sup>1</sup>, Boris Bernhardt<sup>1</sup>, Alain Dagher<sup>1</sup>, Phillip Grant<sup>24</sup>, Theo G. M. van Erp<sup>25,26</sup>, Jessica A. Turner<sup>27</sup>, Paul M. Thompson<sup>28</sup>, André Aleman<sup>20</sup>, Gemma Modinos (2020). **Subcortical and Cortical Neuroanatomical Signatures of Schizotypy in 2,952 Individuals Assessed in a Worldwide ENIGMA Study**, to be submitted, Sept. 2020.
958. Ashley N. Clausen, Ph.D.<sup>1-3</sup>, Kelene A. Fercho, Ph.D.<sup>6,10,39,55</sup>, Molly Monsour<sup>2</sup>, Seth Disner<sup>27,51</sup>, Ph.D.<sup>6</sup>, Lauren Salminen, Ph.D., Courtney C. Haswell, M.S.<sup>1,2</sup>, Emily Clarke Rubright, M.S.<sup>1,2</sup>, Amanda A. Watts, B.A.<sup>1,2</sup>, M. Nicole Buckley, B.A.<sup>1,2</sup> Adi Maron-Katz, Ph.D.<sup>21</sup>, Anika Sierk, Ph.D.<sup>58</sup>, Antje Manthly, M.S.<sup>58</sup>, Benjamin Suarez-Jimenez, Ph.D.<sup>12,52</sup>, Bunmi O. Olatunji, Ph.D.<sup>34</sup>, Christopher L. Averill, M.S.<sup>11,30</sup>, David Hofmann, M.Sc.<sup>46</sup>, Dick J. Veltman, Ph.D., M.D.<sup>24</sup>, Elizabeth A. Olson, Ph.D.<sup>43,49</sup>, Gen Li, B.S.<sup>32,47</sup>, Gina L. Forster,

- Ph.D.<sup>5,39</sup>, Henrik Walter, Ph.D.<sup>58</sup>, Jacklynn Fitzgerald, Ph.D.<sup>48</sup>, Jean Théberge, Ph.D.<sup>15,29,44</sup>, Jeffrey S. Simons, Ph.D.<sup>6,55</sup>, Jessica A. Bomyea, Ph.D.<sup>57,61</sup>, Jessie L. Frijling, Ph.D., M.D.<sup>23</sup>, John H. Krystal, M.D.<sup>11,30</sup>, Justin T. Baker, M.D.<sup>45</sup>, K. Luan Phan, M.D.<sup>18</sup>, Kerry Ressler, M.D., Ph.D.<sup>26,40</sup>, Laura K.M. Han, M.Sc.<sup>24</sup>, Laura Nawijn, Ph.D.<sup>23,24</sup>, Lauren A. M. Lebois, Ph.D.<sup>26,40</sup>, Lianne Schmaal, Ph.D.<sup>9,53</sup>, Maria Densmore, B.Sc.<sup>29</sup>, Martha E. Shenton, Ph.D.<sup>28,37,54</sup>, Mirjam van Zuiden, Ph.D.<sup>23</sup>, Murray Stein, M.D., M.P.H.<sup>56,57</sup>, Negar Fani, Ph.D.<sup>20</sup>, Raluca M. Simons, Ph.D.<sup>6,33</sup>, Richard W. J. Neufeld, Ph.D.<sup>16,29,31,63</sup>, Ruth Lanius, Ph.D.<sup>16,29</sup>, Sanne van Rooij, Ph.D.<sup>20</sup>, Saskia B.J. Koch, Ph.D.<sup>23,42</sup>, Serena Bonomo, B.A.<sup>52</sup>, Tanja Jovanovic, Ph.D.<sup>19</sup>, Terri deRoon-Cassini, Ph.D.<sup>50</sup>, Timothy D. Ely, B.S.<sup>20</sup>, Vincent A. Magnotta, Ph.D.<sup>38</sup>, Xiaofu He, Ph.D.<sup>12,52</sup>, Chadi G. Abdallah, M.D.<sup>11,30</sup>, Amit Etkin, M.D., Ph.D.<sup>21,62</sup>, Christian Schmahl, M.D.<sup>35</sup>, Christine Larson, Ph.D.<sup>60</sup>, Isabelle M. Rosso, Ph.D.<sup>43,49</sup>, Jennifer Urbano Blackford, Ph.D.<sup>22,36</sup>, Jennifer S. Stevens, Ph.D.<sup>20</sup>, Judith K. Daniels, Ph.D.<sup>59</sup>, Julia Herzog, M.S.<sup>35</sup>, Milissa L. Kaufman, Ph.D., M.D.<sup>41</sup>, Miranda Olf, Ph.D.<sup>4,23</sup>, Richard J. Davidson, Ph.D.<sup>7</sup>, Scott R. Sponheim, Ph.D.<sup>27,51</sup>, Sven C. Mueller, Ph.D.<sup>14,17</sup>, Thomas Straube, Ph.D.<sup>46</sup>, Xi Zhu, Ph.D.<sup>12,52</sup>, Yuval Neria, Ph.D.<sup>12,52</sup>, Lee A. Baugh, Ph.D.<sup>6,39,55</sup>, James H. Cole, Ph.D.<sup>8,13</sup>, Paul M. Thompson, Ph.D.,\*\* Rajendra A. Morey, M.D.<sup>1-4</sup> (2020). **Assessment of Brain Age in Posttraumatic Stress Disorder: Findings from the ENIGMA PTSD and Brain Age Working Groups**, submitted to **Biological Psychiatry**, Sept. 2020.
959. Shan Luo, Brendan Angelo, Ting Chow, John R. Monterosso, Anny Xiang, Paul M. Thompson, Kathleen A. Page (2020). ***In Utero* Exposure to Gestational Diabetes is Associated with Greater Food Intake and Orbital Frontal Cortex Responses to Food Cues**, to be submitted, Sept. 2020.
960. Ahmed Abdulkadir, PhD, Christos Davatzikos, PhD, Ali Ezzati, MD, Danielle J. Harvey, PhD, Clifford R. Jack Jr., MD, Richard B. Lipton, MD, Paul M. Thompson, PhD, Monica Truelove-Hill, PhD for the Alzheimer's Disease Neuroimaging Initiative\* (2020). **Alzheimer's AT(N) biomarker profiles in MCI participants projected to progress to AD**, to be submitted, Sept. 2020.
961. Meghann C. Ryan, MS; Qifan Yang, MS; Kathryn S. Hatch, BS; Alyssa Zhu; Sophia I. Thomopoulos, BA; Neda Jahanshad, PhD; Lianne Schmaal, PhD; Paul M. Thompson, PhD; Shuo Chen, PhD; Xiaoming Du; Bhim M. Adhikari, PhD; Heather Bruce, MD; Stephanie Hare, PhD; Eric L. Goldwasser, DO, PhD; Mark D. Kivarta, MD, PhD; Thomas E. Nichols, PhD; L. Elliot Hong, MD, Peter Kochunov (2020). Comparison of Regional Brain Deficit Patterns in Common Psychiatric and Neurological Disorders as Revealed by Big Data, **Neuroimage Clinical**, submitted, Aug. 2020.
962. Chloe X Yap<sup>1,2,3</sup>, Anjali Henders<sup>2,3</sup>, Gail A Alvares<sup>4,3</sup>, David Wood<sup>5</sup>, Lutz Krause<sup>5</sup>, Gene W Tyson<sup>5,6</sup>, Restuadi<sup>2</sup>, Leanne Wallace<sup>2,3</sup>, Tiana McLaren<sup>2,3</sup>, Narelle K Hansell<sup>9</sup>, Dominique Cleary<sup>4,3</sup>, Rachel Grove<sup>7,3</sup>, Claire Hafekost<sup>4,3</sup>, Alexis Harun<sup>4,3</sup>, Helen Holdsworth<sup>1,8,3</sup>, Rachel Jellett<sup>9,3</sup>, Feroza Khan<sup>7,3</sup>, Lauren Lawson<sup>9,3</sup>, Jodie Leslie<sup>4,3</sup>, Mira Levis Frenk<sup>1,8,3</sup>, Anne Masi<sup>7,3</sup>, Nisha E Mathew<sup>7,3</sup>, Melanie Muniandy<sup>9,3</sup>, Michaela Nothard<sup>1,8,3</sup>, Jessica Miller<sup>10</sup>, Lorelle Nunn<sup>2</sup>, Gerald Holtmann<sup>11,12</sup>, Lachlan Strike<sup>10</sup>, Grieg de Zubricaray<sup>13</sup>, Paul M Thompson<sup>14</sup>, Katie L McMahon<sup>15</sup>, Margaret J Wright<sup>9,16</sup>, Peter M Visscher<sup>2</sup>, Paul A Dawson<sup>1,3</sup>, Cheryl Dissanayake<sup>8,3</sup>, Valsamma Eapen<sup>6,17,3</sup>, Helen S Heussler<sup>7,18,3</sup>, Allan F McRae<sup>2</sup>, Andrew JO Whitehouse<sup>4,3</sup>, Naomi R Wray<sup>2,9,3</sup>, Jacob Gratten<sup>1,2,3,\*</sup> (2021). **Restricted diet drives autism-gut microbiome associations**, accepted and in press, **Cell**.

963. **Paul M. Thompson**<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Lianne Schmaal<sup>2,3</sup>, Jessica A. Turner<sup>4</sup>, Anderson Winkler<sup>5</sup>, Sophia I. Thomopoulos<sup>1</sup>, Gary F. Egan<sup>6,7</sup>, Peter Kochunov (2020). **The Enhancing Neuroimaging Genetics through Meta Analysis (ENIGMA) Consortium: 10 years of global collaborations in Human Brain Mapping**, submitted to Human Brain Mapping, Nov. 2020.
964. Charalabos Papageorgiou<sup>1,2</sup>, Anastasios E. Giannopoulos<sup>3,\*</sup>, Athanasios S. Fokas<sup>4</sup>, Paul M. Thompson<sup>5</sup>, Nikolaos C. Kapsalis<sup>3</sup>, Panos Papageorgiou<sup>6</sup>, Xanthi Stachtea<sup>1,2</sup>, Christos N. Capsalis (2020). **Time Perception through the Processing of Verb Tenses: An ERP study regarding Mental Time Travel, to be submitted, Nov. 2020.**
965. Heather C. Bouchard<sup>1,2</sup>, Delin Sun<sup>1,2</sup>, Emily L. Dennis<sup>3,4,5,6</sup>, Mary R. Newsome<sup>7,8</sup>, Seth G. Disner<sup>9,10</sup>, Jeremy Elman<sup>11,12</sup>, Annelise Silva<sup>13</sup>, Carmen Velez<sup>3,4</sup>, Andrei Irimia<sup>14,15</sup>, Nicholas D. Davenport<sup>9,10</sup>, Scott R. Sponheim<sup>9,10</sup>, Carol E. Franz<sup>11,12</sup>, William S. Kremen<sup>11,12,18</sup>, Michael J. Coleman<sup>13</sup>, M. Wright Williams<sup>7,19</sup>, Elbert Geuze<sup>20,21</sup>, Inga K. Koerte<sup>13</sup>, Martha E. Shenton<sup>13</sup>, Maheen M. Adamson<sup>22,23</sup>, Raul Coimbra<sup>26</sup>, Gerald Grant<sup>27</sup>, Lori Shutter<sup>28</sup>, Mark S. George<sup>29</sup>, Ross D. Zafonte<sup>30</sup>, Thomas W. McAllister<sup>31</sup>, Murray Stein<sup>11,32</sup>, Elisabeth A. Wilde<sup>3,4,7</sup>, David F. Tate<sup>3,4</sup>, Paul M. Thompson<sup>5,33</sup>, Aristeidis Sotiras<sup>34</sup>, Rajendra A. Morey<sup>1,2</sup> (2020). Age-Dependent White Matter Disruptions in Military Traumatic Brain Injury: Results from Multivariate Analysis of ENIGMA Data, submitted to **Human Brain Mapping**, under revision.
966. *Iliyan Ivanov, Premika S.W. Boedhoe, Yoshinari Abe, Pino Alonso, Stephanie H. Ameis, Paul D. Arnold, Srinavas Balachander, Justin T. Baker, Nerisa Banaj, Nuria Bargalló, Marcelo C. Batistuzzo, Francesco Benedetti, Jan C. Beucke, Irene Bollettini, Silvia Brem, Brian P. Brennan, Jan Buitelaar, Rosa Calvo, Yuqi Cheng, Kang Ik K. Cho, Sara Dallaspezia, Damiaan Denys, Juliana B. Diniz, Benjamin A. Ely, Jamie D. Feusner, Sónia Ferreira, Kate D. Fitzgerald, Martine Fontaine, Patricia Gruner, Gregory L. Hanna, Yoshiyuki Hirano, Marcelo Q. Hoexter, Chaim Huyser, Keisuke Ikari, Anthony James, Fern Jaspers-Fayer, Hongyan Jiang, Norbert Kathmann, Christian Kaufmann, Minah Kim, Kathrin Koch, Jun Soo Kwon, Luisa Lázaro, Yanni Liu, Christine Lochner, Rachel Marsh, Ignacio Martínez-Zalacain, David Mataix-Cols, José M. Menchón, Luciano Minuzzi, Astrid Morer, Pedro Morgado, Akiko Nakagawa, Takashi Nakamae, Tomohiro Nakao, Janardhanan C. Narayanaswamy, Erika L. Nurmi, Sanghoon Oh, Chris Perriello, John C. Piacentini, Maria Picó-Pérez, Fabrizio Piras, Federica Piras, Y.C. Janardhan Reddy, Daniela Rodriguez Manrique, Oana Yuki Sakai, Eiji Shimizu, H. Blair Simpson, Noam Soreni, Carles Soriano-Mas, Gianfranco Spalletta, Emily R. Stern, Michael C. Stevens, S. Evelyn Stewart, Philip R. Szeszko, David F. Tolin, Daan van Rooij, Dick J. Veltman, Ysbrand D. van der Werf, Guido A. van Wingen, Ganesan Venkatasubramanian, Susanne Walitza, Zhen Wang, Anri Watanabe, Lidewij H. Wolters, Xiufeng Xu, Je-Yeon Yun, Mojtaba Zarei, Fengrui Zhang, Qing Zhao, ENIGMA-OCD Working Group\*, Paul M. Thompson, Dan J. Stein, Odile A. van den Heuvel, Joseph O'Neill* (2020). **Medication effects on subcortical morphology across the life span in OCD: Results from the international ENIGMA Consortium**, to be submitted to Lancet Psychiatry, Dec. 2020.
967. Jill A. Rabinowitz<sup>1,\*</sup>, Adrian I. Campos<sup>2,3\*</sup>, Jue-Sheng Ong<sup>2</sup>, Luis M. García-Marín<sup>2</sup>, Sarael Alcauter<sup>4</sup>, Katrina S. Grasby<sup>2</sup>, Gabriel Cuéllar-Partida<sup>3</sup>, Nicholas G. Martin<sup>2</sup>, Paul M. Thompson<sup>5</sup>, Sarah E. Medland<sup>2</sup>, Brion Maher<sup>1</sup>, Miguel E. Rentería (2021). Shared genetic aetiology between cortical brain morphology and tobacco, alcohol and cannabis use, to be submitted, Jan. 2021.

968.Bo-yong Park<sup>1\*</sup>, Sara Larivière<sup>1</sup>, Raul Rodríguez-Cruces<sup>1</sup>, Jessica Royer<sup>1</sup>, Shahin Tavakol<sup>1</sup>, Yezhou Wang<sup>1</sup>, Lorenzo Caciagli<sup>2,3,4</sup>, Maria Eugenia Caligiuri<sup>5</sup>, Antonio Gambardella<sup>5,6</sup>, Luis Concha<sup>7</sup>, Simon S. Keller<sup>8,9</sup>, Fernando Cendes<sup>10</sup>, Clarissa Yasuda<sup>10</sup>, Leonardo Bonilha<sup>11</sup>, Ezequiel Gleichgerrcht<sup>11</sup>, Niels K. Focke<sup>12</sup>, Martin Domin<sup>13</sup>, Felix von Podewills<sup>14</sup>, Soenke Langner<sup>15</sup>, Christian Rummel<sup>16</sup>, Roland Wiest<sup>16</sup>, Pascal Martin<sup>17</sup>, Raviteja Kotikalapudi<sup>17</sup>, Terence J. O'Brien<sup>18,19</sup>, Benjamin Sinclair<sup>18,19</sup>, Lucy Vivash<sup>18,19</sup>, Patricia M. Desmond<sup>19</sup>, Saud Alhusaini<sup>20,21</sup>, Colin P. Doherty<sup>22,23</sup>, Gianpiero L. Cavalleri<sup>20,23</sup>, Norman Delanty<sup>20,23</sup>, Reetta Kälviäinen<sup>24,25</sup>, Graeme D. Jackson<sup>26</sup>, Magdalena Kowalczyk<sup>26</sup>, Mario Mascacchi<sup>27</sup>, Mira Semmelroch<sup>26</sup>, Rhys H. Thomas<sup>28</sup>, Hamid Soltanian-Zadeh<sup>29,30</sup>, Esmail Davoodi-Bojd<sup>31</sup>, Junsong Zhang<sup>32</sup>, Matteo Lenge<sup>33,34</sup>, Renzo Guerrini<sup>33</sup>, Emanuele Bartolini<sup>35</sup>, Khalid Hamandi<sup>36,37</sup>, Sonya Foley<sup>37</sup>, Bernd Weber<sup>38</sup>, Chantal Depondt<sup>39</sup>, Julie Absil<sup>40</sup>, Sarah J. A. Carr<sup>41</sup>, Eugenio Abela<sup>41</sup>, Mark P. Richardson<sup>41</sup>, Orrin Devinsky<sup>42</sup>, Mariasavina Severino<sup>43</sup>, Pasquale Striano<sup>43</sup>, Domenico Tortora<sup>43</sup>, Sean N. Hatton<sup>44</sup>, Sjoerd B. Vos<sup>2,3,4,5</sup>, John S. Duncan<sup>2,3</sup>, Christopher D. Whelan<sup>46</sup>, Angelo Labate<sup>5,6</sup>, Sanjay M. Sisodiya<sup>2,3</sup>, **Paul M. Thompson**<sup>47</sup>, Carrie R. McDonald<sup>48</sup>, Andrea Bernasconi<sup>49</sup>, Neda Bernasconi<sup>49</sup>, Boris C. Bernhardt<sup>1\*</sup> (2021). **TOPOGRAPHIC DIVERGENCE OF ATYPICAL CORTICAL ASYMMETRY AND REGIONAL ATROPHY PATTERNS IN TEMPORAL LOBE EPILEPSY: A WORLDWIDE ENIGMA STUDY**, *Brain*, 2021.

969.Adrian I. Campos; **Paul M. Thompson**; Dick J. Veltman; Elena Pozzi; Laura S. van Veltzen; Neda Jahanshad; Mark J. Adams; Bernhard T. Baune; Klaus Berger; Katharina Brosch; Robin Bülow; Colm G. Connolly; Udo Dannlowski; Christopher G. Davey; Greig I. de Zubicaray; Danai Dima; Tracy Erwin-Grabner; Jennifer W. Evans; Cynthia H.Y. Fu; Ian H. Gotlib; Roberto Goya-Maldonado; Hans J. Grabe; Dominik Grotegerd; Matthew A. Harris; Ben J. Harrison; Sean N. Hatton; Marco Hermesdorf; Ian B. Hickie; Tiffany C. Ho; Tilo Kircher; Axel Krug; Jim Lagopoulos; Hannah Lemke; Katie McMahan; Frank P. MacMaster; Nicholas G. Martin; Andrew M. McIntosh; Sarah E. Medland; Susanne Meinert; Tina Meller; Igor Nenadic; Nils Opel; Ronny Redlich; Liesbeth Reneman; Jonathan Repple; Matthew D. Sacchet; Simon Schmitt; Anouk Schranter; Kang Sim; Aditya Singh; Frederike Stein; Lachlan T. Strike; Nic J.A. van der Wee; Steven J.A. van der Werff; Henry Völzke; Lena Waltemate; Heather C. Whalley; Katharina Wittfeld; Margaret J. Wright; Tony T. Yang; Carlos A. Zarate; Lianne Schmaal; Miguel E Rentería, PhD (2021). Brain correlates of suicide attempt in 18,925 participants across 18 international cohorts, submitted to Biological Psychiatry, Feb. 2, 2021.

970.Sean R. McWhinney, PhD<sup>1</sup>, Christoph Abé, PhD<sup>2</sup>, Martin Alda, MD<sup>1</sup>, Francesco Benedetti, MD<sup>3,4</sup>, Erlend Bøen, MD, PhD<sup>5</sup>, Caterina del Mar Bonnin, PhD<sup>31</sup> Tiana Borgers, MSc<sup>6</sup>, Katharina Brosch, MSc<sup>7</sup>, Erick J. Canales-Rodríguez, PhD<sup>8</sup>, Dara M. Cannon, PhD<sup>9</sup>, Udo Dannlowski, MD, PhD<sup>6</sup>, Ana M. Diaz-Zuluaga, MD<sup>10</sup>, Lorielle Dietze MSc<sup>1</sup>, Torbjørn Elvsåshagen, MD, PhD<sup>11,12,13</sup>, Lisa T. Eyler PhD<sup>14,15</sup>, Janice M. Fullerton, PhD<sup>16,17</sup>, Jose M. Goikolea, MD<sup>31</sup>, Janik Goltermann, M.Sc<sup>6</sup>, Dominik Grotegerd, PhD<sup>6</sup>, Bartholomeus C. M. Haarman, MD, PhD<sup>18</sup>, Tim Hahn, PhD<sup>6</sup>, Fleur M. Howells, PhD<sup>19,20</sup>, Martin Ingvar, MD, PhD<sup>2</sup>, Tilo T. J. Kircher, PhD<sup>7</sup>, Axel Krug, PhD<sup>7,21</sup>, Rayus T. Kuplicki, PhD<sup>22</sup>, Mikael Landén, MD<sup>23,24</sup>, Hannah Lemke, MSc<sup>6</sup>, Benny Liberg, MD, PhD<sup>2</sup>, Carlos Lopez-Jaramillo, MD, PhD<sup>10</sup>, Ulrik F. Malt, MD, PhD<sup>5,25</sup>, Fiona M. Martyn, BSc<sup>9</sup>, Elena Mazza, MSc<sup>3,4</sup>, Colm McDonald, MD, PhD<sup>9</sup>, Genevieve McPhilemy, PhD<sup>9</sup>, Susanne Meinert, MSc<sup>6</sup>, Tina Meller, PhD<sup>7,26</sup>, Elisa M. T. Melloni, PhD<sup>3,4</sup>, Philip B. Mitchell, MD<sup>27</sup>, Leila Nabulsi, PhD<sup>9</sup>, Igor Nenadic, MD<sup>7</sup>, Nils Opel, MD<sup>6</sup>, Roel A. Ophoff, PhD<sup>28,29</sup>, Bronwyn J. Overs, BScH<sup>16</sup>, Julia-Katharina Pfarr, MSc<sup>7</sup>, Julian A. Pineda-Zapata, BSc<sup>30</sup>, Edith Pomarol-Clotet, MD, PhD<sup>8</sup>, Joaquim Raduà, MD, PhD<sup>2,31,32</sup>, Jonathan Repple, MD<sup>6</sup>, Maike Richter, MSc<sup>6</sup>, Kai G. Ringwald, MSc<sup>7</sup>, Gloria Roberts, PhD<sup>27</sup>, Alex Ross<sup>1</sup>, Raymond Salvador, PhD<sup>8</sup>, Jonathan Savitz, PhD<sup>22,33</sup>, Simon Schmitt, MSc<sup>7</sup>, Peter R. Schofield, DSc, PhD<sup>16,17</sup>, Kang Sim, MD<sup>34,35</sup>, Dan J. Stein, MD, PhD<sup>19,20,36</sup>,

- Frederike Stein, MA<sup>7</sup>, Henk S. Temmingh, MD, MPH<sup>20</sup>, Katharina Thiel, PhD<sup>6</sup>, Sophia I. Thomopoulos<sup>40</sup>, Neeltje E. M. van Haren, PhD<sup>37,38</sup>, Holly Van Gestel, MSc<sup>1</sup>, Cristian Vargas, MD<sup>10</sup>, Eduard Vieta, MD, PhD<sup>31</sup>, Annabel Vreeker, PhD<sup>37</sup>, Lena Waltemate, MSc<sup>6</sup>, Lakshmi N. Yatham, EMBA<sup>39</sup>, Christopher R. K. Ching PhD<sup>40</sup>, Ole A. Andreassen, MD, PhD<sup>11</sup>, Paul M. Thompson, PhD<sup>40</sup>, and Tomas Hajek, MD, PhD<sup>1,41</sup>, for the ENIGMA Bipolar Disorders Working Group (2021). **Diagnosis of bipolar disorders and body mass index predict clustering based on similarities in cortical thickness – ENIGMA study in 2 436 individuals**, to be submitted, March 2021.
971. Clara A. Moreau<sup>1,2,3\*</sup>, Kuldeep Kumar<sup>2</sup>, Annabelle Harvey<sup>2,3</sup>, Guillaume Huguet<sup>2</sup>, Sebastian Urchs<sup>3,4</sup>, Elise A. Douard<sup>2</sup>, Laura M. Schultz<sup>5</sup>, Hanad Sharmarke<sup>3</sup>, Khadije Jizi<sup>2</sup>, Charles-Olivier Martin<sup>2</sup>, Nadine Younis<sup>2</sup>, Petra Tamer<sup>2</sup>, Jean-Louis Martineau<sup>2</sup>, Pierre Orban<sup>6,7</sup>, David Shin<sup>13</sup>, Ana Isabel Silva<sup>8,9,10</sup>, Jeremy Hall<sup>8,9</sup>, Marianne B.M. van den Bree<sup>8,9</sup>, Michael J. Owen<sup>8,9</sup>, David E. J. Linden<sup>9,10</sup>, Aurelie Labbe<sup>11</sup>, Anne M. Maillard<sup>12</sup>, Tomasz J. Nowakowski<sup>13</sup>, Carrie E. Bearden<sup>14</sup>, Laura Almasy<sup>5</sup>, Sarah Lippé<sup>2</sup>, David C. Glahn<sup>15,16</sup>, Paul M. Thompson<sup>17</sup>, Thomas Bourgeron<sup>1</sup>, Pierre Bellec<sup>3†</sup>, and Sebastien Jacquemont<sup>2\*†</sup> (2021). Atlas of functional connectivity relationships across rare and common genetic variants, traits, and psychiatric conditions, to be submitted to **Nature Neuroscience**, March 2021.
972. Yuanchao Zhang<sup>1,2</sup>, Melanie E. Garrett<sup>3,5</sup>, Delin Sun<sup>4,5</sup>, Emily K. Clarke-Rubright<sup>4,5</sup>, Courtney C. Haswell<sup>4,5</sup>, Adam X. Maihofer<sup>6</sup>, Jeremy A. Elman, PhD<sup>7,8</sup>, Carol E. Franz, PhD<sup>7,8</sup>, Michael J. Lyons, PhD, William S. Kremen, PhD, Matthew Peverill, Kelly Sambrook, Katie A. McLaughlin, Nicholas D. Davenport, Seth Disner, Scott Sponheim, Elpiniki Andrew, Mayuresh Korgaonkar, Richard Bryant, Tim Varkevisser, Elbert Geuze, Jonathan Coleman, Jean C. Beckham, Nathan A. Kimbrel, Danielle Sullivan, Mark Miller, Jasmeet Hayes, Mieke Verfaellie, Erika Wolf, David Salat, Jeffrey M. Spielberg, William Milberg, Regina McGlinchey, Emily L. Dennis·Paul M. Thompson, Caroline M. Nievergelt, PhD, Allison E. Ashley-Koch, Mark W. Logue, Rajendra A. Morey (2021). Trauma and Posttraumatic Stress Disorder Modulate Polygenic Predictors of Hippocampal and Amygdala Volume, to be submitted, March 2021.
973. David Romascano<sup>1</sup>, Julio E. Villalón-Reina<sup>2</sup>, Clara A. Moreau<sup>3</sup>, Borja Rodriguez-Herreros<sup>1</sup>, Joana M. Almeida Osório<sup>1</sup>, Sonia Richetin<sup>1</sup>, Vincent Junod<sup>1</sup>, Paola Yu<sup>1</sup>, ... , **Paul M. Thompson**<sup>2</sup>, Eleonora Fornari<sup>4</sup>, Marine Jequier Gyax<sup>1</sup>, Nadia Chabane<sup>1</sup>, Sebastien Jacquemont<sup>3\*</sup>, Anne M. Maillard<sup>1\*</sup> (2021). Whole-brain structural connectivity differences in children with genetic risk for neurodevelopmental disorders, to be submitted, April 2021.
974. Jerod M. Rasmussen<sup>1,2</sup>, **Paul M. Thompson**<sup>3</sup>, Lauren E. Gyllenhammer<sup>1,2</sup>, Karen L. Lindsay<sup>2,4</sup>, Thomas G. O'Connor<sup>6</sup>, Berthold Koletzko<sup>7</sup>, Sonja Entringer<sup>1,2,5</sup>, Pathik D. Wadhwa<sup>1,2,8,9,10</sup>, Claudia Buss<sup>1,2,5\*</sup> (2021). Maternal Free Fatty Acid Concentration During Pregnancy is Associated with Newborn Hypothalamus Microstructure in Humans, to be submitted, April 2021.
975. Lea Waller, Susanne Erk, Elena Pozzi, Yara J. Toenders, Courtney C. Haswell, Marc Büttner, **Paul M. Thompson**, Lianne Schmaal, Rajendra A. Morey, Henrik Walter, Ilya M. Veer (2021). ENIGMA HALFPipe: Fast, interactive, and reproducible analysis for resting-state and task-based fMRI data, to be submitted, April 2021.
976. Dimitris Stripelis, **Paul Thompson**, and José Luis Ambite. 2021. Semi-Synchronous Federated Learning for Accelerated Convergence in Cross-Silo Settings. **J. ACM** 37, 4, Article 111, 24 pages. <https://doi.org/10.1145/1122445.1122456> to be submitted, April 2021.

977. Bin Lu<sup>1,2</sup>, Hui-Xian Li<sup>1,2</sup>, Zhi-Kai Chang<sup>1,2</sup>, Le Li<sup>3</sup>, Ning-Xuan Chen<sup>1,2</sup>, Zhi-Chen Zhu<sup>1,2</sup>, Hui-Xia Zhou<sup>1,2</sup>, Xue-Ying Li<sup>1,4,5</sup>, Yu-Wei Wang<sup>1,2</sup>, Shi-Xian Cui<sup>1,4,5</sup>, Zhao-Yu Deng<sup>1,2</sup>, Zhen Fan<sup>6</sup>, Hong Yang<sup>7</sup>, Xiao Chen<sup>1,2</sup>, Paul M. Thompson, Francisco Xavier Castellanos<sup>8,9</sup>, Chao-Gan Yan<sup>1,2,10,11\*</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2021). **A Practical Alzheimer Disease Classifier via Brain Imaging-Based Deep Learning on 85,721 Samples, submitted**, *Annals of Neurology*, May 2021.
978. Moein Ebrahimi<sup>1,2,3</sup>, Paul M. Thompson<sup>4</sup>, Andreas K Lauer<sup>5</sup>, Gemmy C.M. Cheung<sup>6</sup>, George Perry (2021). What happens beyond diabetic retinopathy? To be submitted to **Survey of Ophthalmology**, April 2021.
979. Zhenyao Ye<sup>1,2\*</sup>, Chen Mo<sup>1,2\*</sup>, Kathryn Hatch<sup>1</sup>, Song Liu<sup>4</sup>, Si Gao<sup>1</sup>, Elliot Hong<sup>1</sup>, **Paul Thompson**, Neda Jahanshad<sup>5</sup>, Ashley Acheson<sup>6</sup>, Hugh Caravan<sup>7</sup>, Li Shen<sup>8</sup>, Yizhou Ma<sup>1</sup>, Peter Kochunov<sup>1‡\*</sup>, Shuo Chen<sup>1,2‡\*</sup>, Tianzhou Ma<sup>3‡</sup> (2021). White matter integrity and nicotine dependence in smokers: evaluating vertical and horizontal pleiotropy, *Frontiers in Neuroscience*, in press, Sept. 1, 2021.
980. Hung Mai, Jingxuan Bao, **Paul M. Thompson**, Dokyoon Kim, Li Shen (2021). Identifying genes associated with brain volumetric changes through tissue specific transcriptomic inference from GWAS summary data, Full-length paper, **ICIBM 2021**, accepted, June 2021.
981. Zhiqiang Sha<sup>1\*</sup>, Daan van Rooij<sup>2</sup>, Evdokia Anagnostou<sup>3</sup>, Celso Arango<sup>4</sup>, Guillaume Auzias<sup>5</sup>, Marlene Behrmann<sup>6</sup>, Boris Bernhardt<sup>7</sup>, Geraldo Busatto Filho<sup>8</sup>, Sara Calderoni<sup>9,10</sup>, Rosa Calvo<sup>11</sup>, Eileen Daly<sup>12</sup>, Christine Deruelle<sup>5</sup>, Adriana Di Martino<sup>13</sup>, Ilan Dinstejn<sup>14</sup>, Fabio Luis S. Duran<sup>8</sup>, Sarah Durston<sup>15</sup>, Christine Ecker<sup>16,17</sup>, Stefan Ehrlich<sup>18</sup>, Damien Fair<sup>19</sup>, Jennifer Fedor<sup>20</sup>, Xin Feng<sup>21</sup>, Jackie Fitzgerald<sup>22,23</sup>, Dorothea L. Floris<sup>2</sup>, Barbara Franke<sup>2,24,25</sup>, Christine M. Freitag<sup>16</sup>, Louise Gallagher<sup>22,23</sup>, David C. Glahn<sup>26,27</sup>, Ilaria Gori<sup>28</sup>, Shlomi Haar<sup>29</sup>, Liesbeth Hoekstra<sup>2,30</sup>, Neda Jahanshad<sup>17</sup>, Maria Jalbrzikowski<sup>22</sup>, Joost Janssen<sup>4</sup>, Joseph A. King<sup>18</sup>, Luisa Lazaro<sup>11</sup>, Jason P. Lerch<sup>31,32</sup>, Beatriz Luna<sup>20</sup>, Mauricio M. Martinho<sup>33</sup>, Jane McGrath<sup>22,23</sup>, Sarah E. Medland<sup>34</sup>, Filippo Muratori<sup>9,10</sup>, Clodagh M. Murphy<sup>12,35</sup>, Declan G.M. Murphy<sup>35,36</sup>, Kirsten O'Hearn<sup>20</sup>, Bob Oranje<sup>15</sup>, Mara Parellada<sup>4</sup>, Merel C. Postema<sup>1</sup>, Olga Puig<sup>11</sup>, Alessandra Retico<sup>28</sup>, Pedro Rosa<sup>8</sup>, Katya Rubia<sup>37</sup>, Devon Shook<sup>15</sup>, Margot J. Taylor<sup>38</sup>, Michela Tosetti<sup>9</sup>, Gregory L. Wallace<sup>39</sup>, Fengfeng Zhou<sup>21</sup>, Paul M. Thompson<sup>17</sup>, Simon E. Fisher<sup>1,40</sup>, Jan K. Buitelaar<sup>2</sup> & Clyde Francks<sup>1,40\*</sup> Subtly altered topological asymmetry of brain structural covariance networks in autism spectrum disorder across 43 datasets from the ENIGMA consortium, to be submitted, April 2021.
982. Abé C, ... Thompson PM, et al. (2021). **Longitudinal structural brain changes in bipolar disorder: A multicenter neuroimaging study of 1,232 individuals by the ENIGMA-BD Working Group**, submitted to **Biological Psychiatry**, April 2021.
983. Tyler J. Stahl, Rohith Palli, Jessica M. Gill RN PhD, Elizabeth L. Saionz PhD, Arokoruba Cheetham-West, Kian Merchant-Borna MPH MBA, Dzung Pham PhD, Lachlan Strike PhD, Margie Wright PhD, Paul Thompson PhD, Jeffrey J. Bazzarian MD MPH (2022). ErbB signaling pathway genes are differentially expressed in monozygotic twins discordant for sports-related concussion, submitted to Twin Research and Human Genetics, March 2022.
984. Yash Patel, Jean Shin, ..over 100 co-authors.., Zdenka Pausova, **Paul M Thompson & Tomas Paus** (2021). **Virtual ontogeny of cortical growth preceding mental illness**, to be submitted to **Science**, May 2021.

985. Jonatan Ottino-González\*, Anne Uhlmann, Zhipeng Cao<sup>1</sup>, Renata B. Cupertino<sup>1</sup>, Nathan Schwab<sup>1</sup>, Nicholas Allgaier<sup>1</sup>, Nelly Alia-Klein<sup>3</sup>, Hamed Ekhtiari<sup>4,5</sup>, Jean Paul Fouche<sup>6</sup>, Rita Z. Goldstein<sup>3</sup>, Chiang-Shan R. Li<sup>7</sup>, Christine Lochner<sup>6</sup>, Edythe D. London<sup>8</sup>, Maartje Luijten<sup>9</sup>, Sadegh Masjoodi<sup>10</sup>, Reza Momenan<sup>11</sup>, Mohammad Ali Oghabian<sup>10</sup>, Annerine Roos<sup>6</sup>, Dan J. Stein<sup>12</sup>, Elliot A. Stein<sup>13</sup>, Dick J. Veltman<sup>14</sup>, Antonio Verdejo-García<sup>15</sup>, Sheng Zhang<sup>7</sup>, Min Zhao<sup>16</sup>, Na Zhong<sup>16</sup>, Neda Jahanshad<sup>17</sup>, **Paul M. Thompson**, Patricia Conrod<sup>19</sup>, Scott Mackey<sup>1</sup> and Hugh Garavan (2021). White matter microstructure differences in individuals with dependence on cocaine, methamphetamine, and nicotine: Findings from the ENIGMA-Addiction working group, submitted to **Neuropsychopharmacology**, May 2021.
986. Cees J. Weeland, S. Kasprzak, N. de Joode Ms, ..., T. White, **P. M. Thompson**, D.J. Stein, O.A. van den Heuvel\*, C. Vriend\* (2021). ENIGMA-OCD: The thalamus and its subnuclei - a gateway to obsessive-compulsive disorder, submitted to **Molecular Psychiatry**, Sept. 15 2021.
987. Walton, E., ..., **Thompson, P.M.**, ..., Ehrlich, S. [full author list: Walton Esther PhD<sup>1</sup>; Bernardoni Fabio PhD<sup>2,3</sup>; Batury Victoria-Luise<sup>2</sup>; Bahnsen Klaas<sup>2</sup>; Larivière Sara MSc<sup>4</sup>; Abbate Daga Giovanni MD<sup>5</sup>; Andres Susana PhD<sup>6</sup>; Bang Lasse PhD<sup>7,8</sup>; Bischoff-Grethe Amanda PhD<sup>9,10</sup>; Brooks Samantha J PhD<sup>11,12</sup>; Campbell Iain C PhD<sup>13,14</sup>; Cascino Giammarco MD<sup>15</sup>; Castro-Fornieles Josefina MD, PhD<sup>6</sup>; Collantoni Enrico MD, PhD<sup>16</sup>; D'Agata Federico PhD<sup>17</sup>; Dahmen Brigitte MD<sup>18</sup>; Danner Unna N. PhD<sup>19</sup>; Favaro Angela MD, PhD<sup>16,20</sup>; Feusner Jamie D MD<sup>21,22</sup>; Frank Guido KW MD<sup>9,10</sup>; Friederich Hans-Christoph MD<sup>23</sup>; Graner John L PhD<sup>24</sup>; Herpertz-Dahlmann Beate MD<sup>18</sup>; Hess Andreas PhD<sup>25</sup>; Horndasch Stefanie MD<sup>26</sup>; Kaplan Allan S MD, MSc<sup>21</sup>; Kaufmann Lisa-Katrin PhD<sup>27,28</sup>; Kaye Walter H MD<sup>9,10</sup>; Khalsa Sahib S MD, PhD<sup>29,30</sup>; LaBar Kevin S PhD<sup>24</sup>; Lavagnino Luca MD, PhD<sup>31,32</sup>; Lazaro Luisa MD, PhD<sup>6</sup>; Manara Renzo MD<sup>16</sup>; Miles Amy E PhD<sup>21</sup>; Milos Gabriella F. MD<sup>27</sup>; Monteleone Alessio Maria MD, PhD<sup>33</sup>; Monteleone Palmiero MD<sup>15</sup>; Mwangi Benson PhD<sup>31</sup>; O'Daly Owen PhD<sup>13,34</sup>; Pariente Jose PhD<sup>35</sup>; Roesch Julie MD<sup>36</sup>; Schmidt Ulrike H MD, PhD<sup>13,14</sup>; Seitz Jochen MD<sup>18</sup>; Shott Megan E BSc<sup>9,10</sup>; Simon Joe J PhD<sup>23</sup>; Smeets Paul A.M. PhD<sup>37,38</sup>; Tamnes Christian K PhD<sup>39,40,41</sup>; Tenconi Elena PhD<sup>16,20</sup>; Thomopoulos Sophia I.<sup>42</sup>; van Elburg Annemarie A. MD, PhD<sup>19</sup>; Voineskos Aristotle N MD, PhD<sup>43,44</sup>; von Polier Georg G MD<sup>18,45,46</sup>; Wierenga Christina E PhD<sup>9,10</sup>; Zucker Nancy L PhD<sup>47</sup>; King Joseph A PhD<sup>2</sup>; Thompson Paul M. PhD<sup>42</sup>; Berner Laura A PhD<sup>48</sup>; Ehrlich Stefan MD, PhD<sup>2,3</sup>] (2021). **Brain Structure in Acutely Underweight and Partially Weight-Restored Individuals with Anorexia Nervosa - A Coordinated Analysis by the ENIGMA Eating Disorders Working Group**, to be submitted, Oct. 2021.
988. Fidel Vila-Rodriguez, [many named co-authors], ..., **Paul M. Thompson**, ..., Carrie Bearden, Anne Bassett (2021). Impact of 22q11.2 Deletion Syndrome, Cognition, and Psychosis on Structural Brain Networks, to be submitted to **Biological Psychiatry**, July 2021.
989. Mary S. Mufford, Dennis van der Meer, Tobias Kaufmann, Oleksander Frei, Raj Ramesar, Paul M. Thompson, Neda Jahanshad, Rajendra Morey, Ole Andreassen, Dan J. Stein, Shareefa Dalvie (2021). The Genetic Architecture of Amygdala Nuclei, to be submitted to **Biological Psychiatry**, July 2021.
990. Nelson Velasco<sup>a,b</sup>, Julio E. Villalón-Reina<sup>c</sup>, Paul M. Thompson<sup>c</sup>, Eduardo Romero (2021). Regularizing the Q-space in Diffusion MRI by a Gaussian process, submitted to **Medical Image Analysis**, June 30, 2021.



991. Jerod Rasmussen; **Paul M. Thompson**; Lauren E. Gyllenhammer; Karen L. Lindsay; Thomas G. O'Connor; Berthold Koletzko; Sonja Entringer; Pathik D. Wadhwa; Claudia Buss (2021). Maternal Free Fatty Acid Concentration During Pregnancy is Associated with Newborn Hypothalamic Microstructure in Humans, **Obesity**, 30(7):1462-1471, July 2022.
992. Ali Ezzati, MD<sup>1</sup>; Ahmed Abdulkadir, PhD<sup>2</sup>; Clifford R. Jack Jr., MD<sup>3</sup>; Paul M. Thompson, PhD<sup>4</sup>; Danielle J. Harvey, PhD<sup>5</sup>; Monica Truelove-Hill, PhD<sup>2</sup>; Lasya P Sreepada, BS<sup>2</sup>; Christos Davatzikos, PhD<sup>2</sup>; the Alzheimer's Disease Neuroimaging Initiative\*; and Richard B. Lipton, MD (2021). Predictive value of Alzheimer's ATN biomarker profiles in estimating progression of mild cognitive impairment to dementia", submitted to **Alzheimer's & Dementia: The Journal of the Alzheimer's Association**, June 29, 2021.
993. Jie Zhang; Xinran Wu; Xiangzhen Kong; Deniz Vatansever; Zhaowen Liu; Kai Zhang; Barbara J Sahakian; Trevor W Robbins; Jianfeng Feng; **Paul M. Thompson** (2021). Brain Laterality Dynamics Support Human Cognition, submitted to PLOS Biology, Aug. 7 2021.
994. Bhim M. Adhikari<sup>1</sup>, L. Elliot Hong<sup>1</sup>, Zhiwei Zhao<sup>2</sup>, Danny J. J. Wang<sup>3</sup>, Neda Jahanshad<sup>4</sup>, Alyssa Zhu<sup>4</sup>, **Paul M. Thompson**, Jessica A. Turner<sup>5</sup>, Theo G.M. van Erp<sup>6</sup>, Vince D. Calhoun<sup>7,8</sup>, Kathryn S. Hatch<sup>1</sup>, Heather Bruce<sup>1</sup>, Stephanie Hare<sup>1</sup>, Joshua Chiappelli<sup>1</sup>, Eric L. Goldwasser<sup>1</sup>, Mark D. Kvarta<sup>1</sup>, Yizhou Ma<sup>1</sup>, Xiaoming Du<sup>1</sup>, Thomas E. Nichols<sup>9</sup>, Shuo Chen<sup>1\*</sup>, Peter Kochunov<sup>1\*</sup> (2021). Cardiovascular Risk Effects on Brain Regional Homogeneity of the Resting State Signal Mediated through Cerebral Blood Flow, to be submitted, Aug. 2021.
995. Peter Kochunov PhD\*<sup>1</sup>, Yizhou Ma PhD\*<sup>1</sup>, Kathryn S. Hatch BS<sup>1</sup>, Neda Jahanshad PhD<sup>2</sup>, **Paul M. Thompson PhD**, Bhim M. Adhikari PhD<sup>1</sup>, Heather Bruce MD<sup>1</sup>, Andrew Van der vaart MD, PhD<sup>1</sup>, Eric L. Goldwasser DO, PhD<sup>1</sup>, Aris Sotiras PhD<sup>3</sup>, Mark D. Kvarta MD, PhD<sup>1</sup>, Tianzhou Ma<sup>3</sup>, Shuo Chen, PhD<sup>1</sup>, Thomas E. Nichols PhD<sup>4</sup>, L. Elliot Hong MD<sup>1</sup> (2021). Brain-Wide vs. Genome-Wide Vulnerability Biomarkers for Severe Mental Illnesses, to be submitted, Aug. 2021.
996. Si Gao<sup>1#</sup>, Brian Donohue<sup>1#</sup>, Kathryn S. Hatch<sup>1</sup>, Shuo Chen<sup>1</sup>, Tianzhou Ma<sup>2</sup>, Yizhou Ma, Mark Kvarta, Heather Bruce, Bhim Adhikari<sup>1</sup>, Neda Jahanshad, **Paul M. Thompson**, John Blangero<sup>4</sup>, L. Elliot Hong<sup>1</sup>, Sarah Medland<sup>5</sup>, Habib Ganjgahi<sup>6</sup>, Thomas E. Nichols \*<sup>6</sup>, Peter Kochunov<sup>1\*</sup>. (2021). Comparing Empirical Kinship Derived Heritability for Imaging Genetics Traits in UK Biobank and Human Connectome Project. Submitted to **Neuroimage**, Aug. 2021.
997. Delin Sun<sup>1,2</sup>, Gopalkumar Rakesh<sup>1,2</sup>, Emily K. Clarke-Rubright<sup>1,2</sup>, Courtney C. Haswell<sup>1,2</sup>, Mark Logue<sup>3-6</sup>, Brian M. O'Leary<sup>7</sup>, Andrew S. Cotton<sup>7</sup>, Hong Xie<sup>7</sup>, Marijo Tamburrino<sup>7</sup>, Tian Chen<sup>7,8</sup>, Emily L. Dennis<sup>8-11</sup>, Neda Jahanshad<sup>9</sup>, Lauren E. Salminen<sup>9</sup>, Sophia I. Thomopoulos<sup>9</sup>, Faisal Rashid<sup>9</sup>, Christopher R. K. Ching<sup>9</sup>, Saskia B. J. Koch<sup>12,13</sup>, Jessie L. Frijling<sup>12</sup>, Laura Nawijn<sup>12,14</sup>, Mirjam van Zuiden<sup>12</sup>, Xi Zhu<sup>15, 16</sup>, Benjamin Suarez-Jimenez<sup>15,16</sup>, Anika Sierk<sup>17</sup>, Henrik Walter<sup>17</sup>, Antje Manthey<sup>17</sup>, Jennifer S. Stevens<sup>18</sup>, Negar Fani<sup>18</sup>, Sanne J.H. van Rooij<sup>18</sup>, Murray Stein<sup>19</sup>, Jessica Bomyea<sup>19</sup>, Inga Koerte<sup>8, 20</sup>, Kyle Choi<sup>21</sup>, Steven J.A. van de Werff<sup>22, 23</sup>, Robert R. J. M. Vermeiren<sup>22</sup>, Julia Herzog<sup>24</sup>, Lauren A.M. Lebois<sup>25, 26</sup>, Justin T. Baker<sup>27</sup>, Kerry J. Ressler<sup>18, 25, 26</sup>, Elizabeth A. Olson<sup>25, 28</sup>, Thomas Straube<sup>29</sup>, Mayuresh S. Korgaonkar<sup>30</sup>, Elpiniki Andrew<sup>31</sup>, Ye Zhu<sup>32, 33</sup>, Gen Li<sup>32, 33</sup>, Jonathan Ipser<sup>34</sup>, Anna Hudson<sup>35</sup>, Matthew Peverill<sup>36</sup>, Kelly Sambrook<sup>37</sup>, Evan Gordon<sup>38-40</sup>, Lee Baugh<sup>41-43</sup>, Gina Forster<sup>41, 42, 44</sup>, Raluca Simons<sup>42, 45</sup>, Jeffrey Simons<sup>43, 45</sup>, Vincent Magnotta<sup>46</sup>, Adi Maron-Katz<sup>47</sup>, Stefan du Plessis<sup>48</sup>, Seth Disner<sup>49, 50</sup>, Nicholas Davenport<sup>49, 50</sup>, Dan Grupe<sup>51</sup>, Jack Nitschke<sup>52</sup>, Terri A. deRoos-Cassini<sup>53</sup>, Jacklynn Fitzgerald<sup>54</sup>, John H. Krystal<sup>55, 56</sup>, Ifat Levy<sup>55, 56</sup>, Miranda Olff<sup>12, 57</sup>, Dick J. Veltman<sup>58</sup>, Li Wang<sup>32, 33</sup>, Yuval Neria<sup>15,16</sup>, Michael D. De Bellis<sup>59</sup>, Tanja Jovanovic<sup>18, 60</sup>, Judith K. Daniels<sup>61</sup>, Martha Shenton<sup>8, 62</sup>, Nic J.A. van de Wee<sup>22, 23</sup>, Christian Schmahl

- 24, Milissa L. Kaufman 25, 63, Isabelle M. Rosso 25, 28, Scott R. Sponheim 49, 50, David Bernd Hofmann 29, Richard A. Bryant 64, Kelene A. Fercho 41- 43, 65 , Dan J. Stein 34, Sven C. Mueller 35, 66, Bobak Hosseini 67, K. Luan Phan 67, 68, Katie A. McLaughlin 69, Richard J. Davidson 51, 52, 70, Christine Larson 71, Geoffrey May 38-40, 72, Steven M. Nelson 38-40, 72, Chadi G. Abdallah 55, 56, Hassaan Gomaa 73, Amit Etkin 47, 74 , Soraya Seedat 48, Ilan Harpaz-Rotem 55, 56, Israel Liberzon 75, Theo G.M. van Erp 76, 77, Xin Wang 7, **Paul M. Thompson**<sup>9</sup>, Rajendra A. Morey 1,2 \* (2021). A Comparison of Methods to Harmonize Cortical Thickness Measures across Platforms and Sites, to be submitted, Aug. 2021.
998. Constantinos Constantinides, [...], **Paul M Thompson**, [...], Danai Dima, Esther Walton\* (2021). Brain ageing in schizophrenia: results from the Enhancing Neuro-Imaging Genetics through Meta-analysis (ENIGMA) consortium, to be submitted, 2021.
999. Heather C. Bouchard<sup>1,2</sup>, Delin Sun<sup>1,2</sup>, Emily L. Dennis<sup>3,4,5,6</sup>, Mary R. Newsome<sup>7,8</sup>, Seth G. Disner<sup>9,10</sup>, Jeremy Elman<sup>11,12</sup>, Annelise Silva<sup>13</sup>, Carmen Velez<sup>3,4</sup>, Andrei Irimia<sup>14,15</sup>, Nicholas D. Davenport<sup>9,10</sup>, Scott R. Sponheim<sup>9,10</sup>, Carol E. Franz<sup>11,12</sup>, William S. Kremen<sup>11,12,18</sup>, Michael J. Coleman<sup>13</sup>, M. Wright Williams<sup>7,19</sup>, Elbert Geuze<sup>20,21</sup>, Inga K. Koerte<sup>13</sup>, Martha E. Shenton<sup>13</sup>, Maheen M. Adamson<sup>22,23</sup>, Raul Coimbra<sup>26</sup>, Gerald Grant<sup>27</sup>, Lori Shutter<sup>28</sup>, Mark S. George<sup>29</sup>, Ross D. Zafonte<sup>30</sup>, Thomas W. McAllister<sup>31</sup>, Murray Stein<sup>1,32</sup>, Elisabeth A. Wilde<sup>3,4,7</sup>, David F. Tate<sup>3,4</sup>, **Paul M. Thompson**, Aristeidis Sotiras<sup>34</sup>, Rajendra A. Morey<sup>1,2</sup> (2021). Age-Dependent White Matter Disruptions in Military Traumatic Brain Injury: Results from Multivariate Analysis of ENIGMA Data, submitted, Aug. 2021.
1000. Adrian I. Campos<sup>1,2\*</sup>, Laura S. Van Velzen<sup>3,4\*</sup>, Dick J. Veltman<sup>5</sup>, Elena Pozzi<sup>3,4</sup>, Sonia Ambrogi<sup>6</sup>, Elizabeth D. Ballard<sup>7</sup>, Nerisa Banaj<sup>6</sup>, Zeynep Başgöze<sup>8</sup>, Sophie Bellow<sup>9</sup>, Francesco Benedetti<sup>10,11</sup>, Irene Bollettini<sup>10,11</sup>, Katharina Brosch<sup>12</sup>, Erick J. Canales-Rodríguez<sup>13,14,15</sup>, Emily K. Clarke<sup>16</sup>, Lejla Colic<sup>66</sup>, Colm G. Connolly<sup>17</sup>, Philippe Courtet<sup>18,19</sup>, Kathryn R. Cullen<sup>8</sup>, Udo Dannlowski<sup>20</sup>, Maria R. Dauvermann<sup>9,21</sup>, Christopher G. Davey<sup>22</sup>, Jeremy Deverdun<sup>23</sup>, Katharina Dohm<sup>20</sup>, Tracy Erwin-Grabner<sup>24</sup>, Negar Fani<sup>25</sup>, Lydia Fortea<sup>26,27</sup>, Paola Fuentes-Claramonte<sup>13,14</sup>, Ali Saffet Gonul<sup>28,29,30</sup>, Ian H. Gotlib<sup>31</sup>, Nynke Groenewold, Dominik Grotegerd<sup>20</sup>, Mathew A. Harris<sup>x</sup>, Ben J. Harrison<sup>32</sup>, Courtney C. Haswell<sup>16</sup>, Emma L. Hawkins<sup>33</sup>, Dawson Hill<sup>8</sup>, Yoshiyuki Hirano<sup>34,35</sup>, Tiffany C. Ho<sup>63,64</sup>, Fabrice Jollant<sup>36,37,38,39,65</sup>, Tanja Jovanovic<sup>40</sup>, Tilo Kircher<sup>41</sup>, Bonnie Klimes-Dougan<sup>42</sup>, Emmanuelle le Bars<sup>23,43</sup>, Christine Lochner<sup>44</sup>, Andrew M. McIntosh<sup>33</sup>, Susanne Meinert<sup>20</sup>, Yara Mekawi<sup>25</sup>, Elisa Melloni<sup>10,11</sup>, Philip Mitchell<sup>45</sup>, Rajendra A. Morey<sup>16,46</sup>, Akiko Nakagawa<sup>34,35</sup>, Igor Nenadić<sup>12</sup>, Emilie Olié<sup>18,19</sup>, Fabricio Pereira<sup>47,48</sup>, Rachel D. Phillips<sup>16</sup>, Fabrizio Piras<sup>6</sup>, Sara Poletti<sup>10,11</sup>, Edith Pomarol-Clotet<sup>13,14</sup>, Joaquim Radua<sup>26,49,68</sup>, Kerry J. Ressler<sup>25,50</sup>, Gloria Roberts<sup>45</sup>, Elena Rodriguez-Cano<sup>13,51</sup>, Matthew D. Sacchet<sup>52</sup>, Raymond Salvador<sup>13,14</sup>, Anca-Larisa Sandu<sup>53</sup>, Eiji Shimizu<sup>34,35</sup>, Aditya Singh<sup>24</sup>, Gianfranco Spalletta<sup>6,54</sup>, J. Douglas Steele<sup>55</sup>, Dan J. Stein<sup>56</sup>, Frederike Stein<sup>12</sup>, Jennifer S. Stevens<sup>25</sup>, Giana I. Teresi<sup>31,67</sup>, Aslihan Uyar-Demir<sup>28</sup>, Nic J. van der Wee<sup>57</sup>, Steven J. van der Werf<sup>57</sup>, Sanne J.H. van Rooij<sup>25</sup>, Daniela Vecchio<sup>6</sup>, Norma Verdolini<sup>58</sup>, Eduard Vieta<sup>58</sup>, Gordon D. Waiter<sup>59</sup>, Heather Whalley<sup>33</sup>, Sarah L. Whittle<sup>32</sup>, Tony T. Yang<sup>60</sup>, Carlos A. Zarate Jr<sup>7</sup>, **Paul M. Thompson**<sup>61</sup>, Neda Jahanshad<sup>61</sup>, Anne-Laura van Harmelen<sup>9,6</sup> Hilary P. Blumberg<sup>69</sup>, Lianne Schmaal<sup>3,4</sup>, Miguel E. Renteria (2021). Concurrent validity and reliability of suicide risk assessment instruments: A meta analysis of 20 instruments across 27 international cohorts, submitted, Aug. 2021.
1001. Eun-Jin Cheon, Carrie E. Bearden, Daqiang Sun, Christopher R. K. Ching, Ole A. Andreassen, Lianne Schmaal, Dick J. Veltman, Sophia Thomopoulos, **Paul M. Thompson**, Jessica A. Turner, ENIGMA Schizophrenia Working Group, ENIGMA Bipolar Disorder Working Group, ENIGMA Major Depressive Disorder Working Group, ENIGMA 22q11.2 Deletion Syndrome Working Group, Theo G.M. van Erp (2021). Cross Disorder Comparisons of Brain Structure in Schizophrenia, Bipolar Disorder, Major Depressive Disorder, and 22q11.2

Deletion Syndrome: A Review of ENIGMA Findings, to be submitted to **Psychiatry and Clinical Neurosciences** [invited review paper], Sept. 2021.

- 1002.Katherine E. Lawrence;<sup>1</sup> Zvart Abaryan;<sup>1</sup> Emily Laltoo;<sup>1</sup> Leanna M. Hernandez;<sup>2</sup> Andrew Fuligni;<sup>2,3</sup> Michael Gandal;<sup>2,4,5</sup> James T. McCracken;<sup>2</sup> **Paul M. Thompson** (2022). White matter microstructure shows sex differences in late childhood: Evidence from 6,797 children, re-submitted to **Human Brain Mapping**, Feb. 2022.
- 1003.Kumar Kuldeep <sup>1\*</sup> PhD, Modenato Claudia <sup>2\*</sup> MSc, Moreau Clara<sup>1</sup> PhD, Ching Christopher<sup>14</sup> PhD, Martin-Brevet Sandra<sup>2</sup> PhD, Huguet Guillaume<sup>1</sup> PhD, Schramm Catherine<sup>1</sup> PhD, Jean-Louis Martineau<sup>1</sup> MSc, Martin Charles-Olivier<sup>1</sup> PhD, Younis Nadine<sup>1</sup> BSc, Tamer Petra<sup>1</sup> BSc, Douard Elise<sup>1</sup> MSc, Thébault-Dagher Fanny<sup>1</sup> BSc, Côté V.<sup>1</sup> BSc, Charlebois A.R.<sup>1</sup> MSc, Deguire F.<sup>1</sup> MSc, Maillard Anne M.<sup>3</sup> PhD, Rodriguez-Herreros Borja<sup>3</sup> PhD, Pain Aurèlie<sup>3</sup> MSc, Richetin Sonia<sup>3</sup> MSc, 16p11.2 European Consortium, Simons Searchlight Consortium, Melie-Garcia Lester<sup>4</sup> PhD, Kushan Leila MSc<sup>5</sup>, Silva Ana I.<sup>6,7</sup> PhD, van den Bree Marianne B.M.<sup>7,8,9</sup> PhD, Linden David E.J.<sup>6,7,9</sup> MD, Owen Michael J.<sup>7,8</sup> MD, PhD, Hall Jeremy<sup>7,8,9</sup> MD, PhD, Lippé Sarah<sup>2</sup> PhD, MD, PhD, Dumas Guillaume<sup>1</sup> PhD, Draganski Bogdan MD<sup>2, 13</sup>, Glahn David, Almasy Laura, Schultz Laura, Bearden Carrie E. PhD<sup>5</sup>, Thompson Paul M. PhD<sup>14</sup>, Jacquemont Sébastien MD<sup>1</sup> (2021). **Effects of rare CNVs and common variants on subcortical structure**, to be submitted to **AJP**, Sept. 2021.
- 1004.Jianfeng Wu BS<sup>1</sup>, Qunxi Dong, PhD<sup>2,1</sup>, Jie Zhang PhD<sup>1</sup>, Yi Su PhD<sup>3</sup>, Teresa Wu PhD<sup>1</sup>, Richard J. Caselli MD<sup>3</sup>, Eric M. Reiman MD<sup>4</sup>, Jieping Ye PhD<sup>5</sup>, Natasha Lepore PhD<sup>6</sup>, Kewei Chen PhD<sup>4</sup>, **Paul M. Thompson PhD<sup>7</sup>**, Yalin Wang PhD<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2021). FEDERATED MORPHOMETRY FEATURE SELECTION FOR HIPPOCAMPAL MORPHOMETRY ASSOCIATED BETA-AMYLOID AND TAU PATHOLOGY, to be submitted to **Frontiers in Neuroscience**, section on Brain Imaging Methods, Sept. 2021.
- 1005.Sara Larivière<sup>1</sup>, Jessica Royer<sup>1</sup>, Raúl Rodríguez-Cruces<sup>1</sup>, Maria Eugenia Caligiuri<sup>2</sup>, Antonio Gambardella<sup>2,3</sup>, Luis Concha<sup>4</sup>, Simon S. Keller<sup>5,6</sup>, Fernando Cendes<sup>7</sup>, Clarissa Yasuda<sup>7</sup>, Leonardo Bonilha<sup>8</sup>, Ezequiel Gleichgerrcht<sup>8</sup>, Niels K. Focke<sup>9</sup>, Martin Domin<sup>10</sup>, Felix von Podewills<sup>11</sup>, Soenke Langner<sup>12</sup>, Christian Rummel<sup>13</sup>, Roland Wiest<sup>13</sup>, Pascal Martin<sup>14</sup>, Raviteja Kotikalapudi<sup>14</sup>, Terence J. O'Brien<sup>15,16</sup>, Benjamin Sinclair<sup>15,16</sup>, Lucy Vivash<sup>15,16</sup>, Patricia M. Desmond<sup>16</sup>, Elaine Lui<sup>16</sup>, Anna Elisabetta. Vaudano, Stefano Meletti, Manuela Tondelli, Saud Alhusaini<sup>17,18</sup>, Colin P. Doherty<sup>19,20</sup>, Gianpiero L. Cavalleri<sup>17,20</sup>, Norman Delanty<sup>17,20</sup>, Reetta Kälviäinen<sup>21,22</sup>, Graeme D. Jackson<sup>23</sup>, Magdalena Kowalczyk<sup>23</sup>, Mario Mascaldi<sup>24</sup>, Mira Semmelroch<sup>23</sup>, Rhys H. Thomas<sup>25</sup>, Hamid Soltanian-Zadeh<sup>26,27</sup>, Esmaeil Davoodi-Bojd<sup>28</sup>, Junsong Zhang<sup>29</sup>, Matteo Lenge<sup>30,31</sup>, Renzo Guerrini<sup>30</sup>, Emanuele Bartolini<sup>32</sup>, Khalid Hamandi<sup>33,34</sup>, Sonya Foley<sup>34</sup>, Theodor Rüber, Bernd Weber<sup>35</sup>, Chantal Depondt<sup>36</sup>, Julie Absil<sup>37</sup>, Sarah J. A. Carr<sup>38</sup>, Eugenio Abela<sup>38</sup>, Mark P. Richardson<sup>38</sup>, Orrin Devinsky<sup>39</sup>, Mariasavina Severino<sup>40</sup>, Pasquale Striano<sup>40</sup>, Domenico Tortora<sup>40</sup>, Sean N. Hatton<sup>41</sup>, Sjoerd B. Vos<sup>42,43,44</sup>, Lorenzo Caciagli<sup>42,43</sup>, John S. Duncan<sup>42,43</sup>, Christopher D. Whelan<sup>17</sup>, **Paul M. Thompson<sup>45</sup>**, Sanjay M. Sisodiya<sup>42,43</sup>, Angelo Labate<sup>2,3</sup>, Erik Kaestner<sup>47</sup>, Carrie R. McDonald<sup>47</sup>, Andrea Bernasconi<sup>46</sup>, Neda Bernasconi<sup>46</sup>, Boris C. Bernhardt<sup>1</sup> (2021). **Structural network alterations in focal and generalized epilepsy follow axes of epilepsy risk gene expression: an ENIGMA study**, to be submitted, Sept. 2021.
- 1006.Bo-yong Park<sup>1,2,3\*</sup>, Valeria Kebets<sup>1</sup>, Sara Larivière<sup>1</sup>, Meike D. Hettwer<sup>4,5,6</sup>, ENIGMA-ASD<sup>1</sup>, ENIGMA-ADHD<sup>1</sup>, ENIGMA-MDD<sup>1</sup>, ENIGMA-OCD<sup>1</sup>, ENIGMA-Bipolar Disorder<sup>1</sup>, ENIGMA-Schizophrenia<sup>1</sup>, Alan C. Evans<sup>1</sup>, Alain Dagher<sup>1</sup>, Sophia I. Thomopoulos<sup>7,6</sup>, Paul M. Thompson<sup>7,8,7</sup>, Sofie L. Valk<sup>4,5</sup>, Matthias Kirschner<sup>1#</sup>, Boris C. Bernhardt (2021). **MULTILEVEL**

**NEURAL GRADIENTS REFLECT EFFECTS OF MAJOR PSYCHIATRIC CONDITIONS ON CORTICAL MORPHOLOGY**, to be submitted, Sept. 1 2021.

1007. Laura S. van Velzen<sup>1,2\*</sup>, Maria R. Dauvermann<sup>3,4,5</sup>, Lejla Colic<sup>6,7,8</sup>, Luca M. Villa<sup>6</sup>, Hannah S. Savage<sup>2,10</sup>, Yara J. Toenders<sup>1,2</sup>, Alyssa Zhu<sup>11</sup>, Joanna Bright<sup>12</sup>, Adrian Campos<sup>13,14</sup>, Lauren Salminen<sup>12</sup>, Sonia Ambrogio<sup>15</sup>, Rosa Ayesa-Arriola<sup>16,17</sup>, Nerisa Banaj<sup>15</sup>, Zeynep Başgöze<sup>19</sup>, Jochen Bauer<sup>20</sup>, Karina Blair<sup>21</sup>, Robert James Blair<sup>21</sup>, Katharina Brosch<sup>38,39</sup>, Yuqi Cheng, Romain Colle<sup>22,23</sup>, Colm G. Connolly<sup>24</sup>, Emmanuelle Corruble<sup>22,23</sup>, Baptiste Couvy-Duchesne<sup>25,26</sup>, Benedicto Crespo-Facorro<sup>16,17,27</sup>, Kathryn R. Cullen<sup>19</sup>, Udo Dannlowski<sup>29</sup>, Christopher G. Davey<sup>30</sup>, Katharina Dohm<sup>29</sup>, Janice M. Fullerton<sup>31,32</sup>, Ali Saffet Gonul<sup>33</sup>, Ian H. Gotlib<sup>35</sup>, Dominik Grotegerd<sup>29</sup>, Tim Hahn<sup>29</sup>, Ben J. Harrison<sup>10</sup>, Mengxin He, Ian B. Hickie<sup>35</sup>, Tiffany C. Ho<sup>36,37</sup>, Frank Iorfino<sup>35</sup>, Andreas Jansen<sup>38,39,40</sup>, Fabrice Jollant<sup>7,22,41,42,43</sup>, Tilo Kircher<sup>38,39</sup>, Bonnie Klimes-Dougan<sup>44</sup>, Melissa Klug<sup>29</sup>, Elisabeth J. Leehr<sup>29</sup>, Elizabeth T.C. Lippard<sup>45,46,47,48</sup>, Katie A. McLaughlin<sup>49</sup>, Susanne Meinert<sup>29</sup>, Adam Bryant Miller<sup>50,51</sup>, Philip B. Mitchell<sup>52</sup>, Benson Mwangi<sup>53,54</sup>, Igor Nenadić<sup>39,55</sup>, Amar Ojha<sup>56,57</sup>, Bronwyn J. Overs<sup>31</sup>, Fabrizio Piras<sup>15</sup>, Kai G. Ringwald<sup>38,39</sup>, Gloria Roberts<sup>52</sup>, Georg Romer<sup>58</sup>, Marsal Sanches<sup>53,54</sup>, Margaret A. Sheridan<sup>51</sup>, Jair C Soares<sup>53,54</sup>, Gianfranco Spalletta<sup>15,59</sup>, Frederike Stein<sup>38,39</sup>, Giana I. Teresi<sup>34,60</sup>, Diana Tordesillas-Gutiérrez<sup>17,61</sup>, Aslihan Uyar-Demir<sup>33</sup>, Nic J.A. van der Wee<sup>62,63</sup>, Steven J. van der Werff<sup>62,63,64</sup>, Robert R.J.M. Vermeiren<sup>65,66</sup>, Alexandra Winter<sup>29</sup>, Mon-Ju Wu<sup>53,54</sup>, Tony T. Yang<sup>67</sup>, Paul M. Thompson<sup>11</sup>, Miguel Renteria<sup>68,69</sup>, Neda Jahanshad<sup>11</sup>, Hilary P. Blumberg<sup>6,70,71</sup>, Anne-Laura van Harmelen<sup>3,72</sup>, Lianne Schmaal (2021). **Structural brain alterations associated with suicidal thoughts and behaviours in young people: results across 21 international studies from the ENIGMA Suicidal Thoughts and Behaviours consortium**, to be submitted to the **American Journal of Psychiatry**, Sept. 2021.
1008. Jianfeng Wu BS<sup>1</sup>, Yanxi Chen MS<sup>1</sup>, Panwen Wang PhD<sup>2</sup>, Richard J Caselli MD<sup>3</sup>, Paul M Thompson PhD<sup>4</sup>, Junwen Wang PhD<sup>2#</sup>, Yalin Wang PhD<sup>1#</sup>, (2021). Integrating Transcriptomics, Genomics, and Imaging in Alzheimer's Disease: A Federated Model, to be submitted to **Frontiers in Neuroscience**, Sept. 2021.
1009. Eun-Jin Cheon, Carrie E. Bearden<sup>3</sup>, Daqiang Sun<sup>3,4</sup>, Christopher R. K. Ching<sup>5</sup>, Ole A. Andreassen<sup>6</sup>, Lianne Schmaal<sup>7,8</sup>, Dick J. Veltman<sup>9</sup>, Sophia I. Thomopoulos<sup>5</sup>, Peter Kochunov<sup>10</sup>, Neda Jahanshad<sup>5</sup>, Paul M. Thompson<sup>5</sup>, Jessica A. Turner<sup>11</sup>, ENIGMA Schizophrenia Working Group, ENIGMA Bipolar Disorder Working Group, ENIGMA Major Depressive Disorder Working Group, ENIGMA 22q11.2 Deletion Syndrome Working Group, Theo G.M. van Erp (2021). Cross Disorder Comparisons of Brain Structure in Schizophrenia, Bipolar Disorder, Major Depressive Disorder, and 22q11.2 Deletion Syndrome: A Review of ENIGMA Findings, submitted to **PCN Frontiers Reviews**, Sept. 12, 2021.
1010. Benjamin B. Sun, Stephanie J. Loomis<sup>†</sup>, Fabrizio Pizzagalli<sup>†</sup>, Natalia Shatikhina, Jodie N. Painter, Christopher N. Foley, Biogen Biobank Team, Megan Jensen, Donald G. McLaren, Spandana Chintapalli, Alyssa Zhu, Daniel Dixon, Tasfiya Islam, Iyad Ba Gari, Heiko Runz, Sarah E. Medland, Paul M. Thompson\*, Neda Jahanshad\*, Christopher D. Whelan\* (2021). **Genetic architecture of regional sulcal width, depth, length and surface area in the human brain**, to be submitted to **Nature Neuroscience**, Oct. 2021.
1011. Dick Schijven<sup>1</sup>, Merel C. Postema<sup>1</sup>, Masaki Fukunaga<sup>2</sup>, Junya Matsumoto<sup>3</sup>, Kenichiro Miura<sup>3</sup>, Rachel M. Brouwer<sup>4</sup>, Sonja M.C. de Zwarte<sup>4</sup>, Wiepke Cahn<sup>4</sup>, Hilleke E. Hulshoff Pol<sup>4</sup>, René S. Kahn<sup>4,5</sup>, Neeltje E.M. van Haren<sup>4,6</sup>, Diana Tordesillas-Gutiérrez<sup>7,8,9</sup>, Rosa Ayesa-Arriola<sup>8,9,10</sup>, Javier Vázquez-Bourgon<sup>8,9</sup>, Benedicto Crespo-Facorro<sup>11,9</sup>, Dag Alnæs<sup>12,13</sup>, Ingrid Agartz<sup>12,14,15,16</sup>, Ole A.

Andreassen<sup>12</sup>, Lars T. Westlye<sup>12,17</sup>, Peter Kochunov<sup>18</sup>, Yann Quidé<sup>19,20</sup>, Melissa J. Green<sup>19,20</sup>, Lieuwe de Haan<sup>21,22</sup>, Tilo Kircher<sup>23,24</sup>, Bernd Krämer<sup>25</sup>, Oliver Gruber<sup>25</sup>, Theodore D. Satterthwaite<sup>26,27,28</sup>, Stefan Ehrlich<sup>29</sup>, Raymond Salvador<sup>30,31</sup>, Amalia Guerrero-Pedraza<sup>30,32</sup>, Salvador Sarró<sup>30,31</sup>, Edith Pomarol-Clotet<sup>30,31</sup>, Valentina Ciullo<sup>33</sup>, Daniela Vecchio<sup>33</sup>, Nerisa Banaj<sup>33</sup>, Fabrizio Piras<sup>33</sup>, Gianfranco Spalletta<sup>33,34</sup>, Stijn Michielse<sup>35</sup>, Jim van Os<sup>35,4</sup>, Erin W. Dickie<sup>36,37</sup>, Aristotle N. Voineskos<sup>36,37</sup>, Kang Sim<sup>38,39</sup>, Simone Ciufolini<sup>40</sup>, Paola Dazzan<sup>40</sup>, Robin Murray<sup>40</sup>, André Schmidt<sup>41</sup>, Christina Andreou<sup>41,42</sup>, Stefan Borgwardt<sup>41,42</sup>, Stefan du Plessis<sup>43</sup>, Freda Scheffler<sup>43</sup>, Hilmar Luckhoff<sup>43</sup>, Robin Emsley<sup>43</sup>, Simon Cervenka<sup>14,15</sup>, Erik G. Jönsson<sup>12</sup>, Udo Dannlowski<sup>44</sup>, Jesse Edmond<sup>45</sup>, Kelly Rootes-Murdy<sup>45</sup>, Linda A. Antonucci<sup>46,47,48</sup>, Alessandro Bertolino<sup>48,49</sup>, Giulio Pergola<sup>48</sup>, Jason Bruggemann<sup>19,20</sup>, Thomas W. Weickert<sup>19,20,50</sup>, Cynthia S. Weickert<sup>19,20,50</sup>, Joost Janssen<sup>51,52,53,4</sup>, Covadonga M. Díaz-Canejaartinez<sup>51,52,53</sup>, Celso Arango<sup>51,52,53</sup>, Alexander S. Tomyshev<sup>54</sup>, Irina S. Lebedeva<sup>54</sup>, Matthias Kirschner<sup>55,56</sup>, Stefan Kaiser<sup>55,57</sup>, Tomas Hajek<sup>58,59</sup>, Antonin Skoch<sup>59</sup>, Filip Spaniel<sup>59</sup>, Yoo Bin Kwak<sup>60</sup>, Jun Soo Kwon<sup>61,62</sup>, Stephen M. Lawrie<sup>63,64</sup>, Anthony James<sup>65</sup>, Therese van Amelsvoort<sup>66</sup>, Heather C. Whalley<sup>63</sup>, Andrew M. McIntosh<sup>63</sup>, Viola Oertel<sup>67</sup>, Michael Stäblein<sup>67</sup>, Anne Uhlmann<sup>68,69</sup>, Dan J. Stein<sup>68,70,71</sup>, Henk S. Temmingh<sup>68</sup>, Fleur M. Howells<sup>68,70</sup>, Julian A. Pineda-Zapata<sup>72</sup>, Ana Diaz-Zuluaga<sup>73</sup>, Carlos López-Jaramillo<sup>73</sup>, Stephanie Homan<sup>74</sup>, Ellen Ji<sup>74</sup>, Werner Surbeck<sup>74</sup>, Philipp Homan<sup>74,75,76,77</sup>, Simon E. Fisher<sup>1,78</sup>, Barbara Franke<sup>79,80</sup>, David C. Glahn<sup>81,82</sup>, Ruben C. Gur<sup>26,27,83,84</sup>, Ryota Hashimoto<sup>3</sup>, Neda Jahanshad<sup>85</sup>, Sarah E. Medland<sup>86</sup>, Paul M. Thompson<sup>85</sup>, Jessica A. Turner<sup>45,87</sup>, Theo G.M. van Erp<sup>88,89</sup>, Clyde Francks<sup>1,78</sup> (2021). **Large-scale analysis of brain anatomical asymmetries in schizophrenia via the ENIGMA consortium**, to be submitted, Oct. 2021.

1012. Eleonora Maggioni<sup>1</sup>, Maria G. Rossetti<sup>1,2</sup>, Nicholas B. Allen<sup>3</sup>, Albert Batalla<sup>4</sup>, Marcella Bellani<sup>2</sup>, Yann Y. Chye<sup>5</sup>, Janna Cousijn<sup>6</sup>, Anna E. Goudriaan<sup>7</sup>, Robert Hester<sup>8</sup>, Kent Hutchison<sup>9</sup>, Chiang-Shan R. Li<sup>10</sup>, Rocio Martin-Santos<sup>11</sup>, Reza Momenan<sup>12</sup>, Rajita Sinha<sup>13</sup>, Lianne Schmaal<sup>14,15</sup>, Zsuzsika Sjoerds<sup>16</sup>, Nadia Solowij<sup>18</sup>, Chao Suo<sup>5</sup>, Ruth J. van Holst<sup>7</sup>, Dick Veltman<sup>18</sup>, Murat Yücel<sup>5</sup>, Paul M. Thompson<sup>19</sup>, Patricia Conrod<sup>20</sup>, Scott Mackey<sup>21</sup>, Hugh Garavan<sup>21</sup>, Paolo Brambilla<sup>1,22,\*</sup>, Valentina Lorenzetti<sup>23,\*</sup>. (2021). [Brain volumes in alcohol dependence: do females and males differ? A whole-brain Magnetic Resonance Imaging mega-analysis from the ENIGMA Addiction Working Group](#), to be submitted to *Neuron*, Oct. 2021.

1013. Eamonn Kennedy<sup>1-3</sup>, Emily L Dennis<sup>1,2</sup>, Hannah M Lindsey<sup>1,2</sup>, Terri deRoon-Cassini<sup>4</sup>, Stefan Du Plessis<sup>5,6</sup>, Negar Fani<sup>7</sup>, Milissa L Kaufman<sup>8,9</sup>, Nastassja Koen<sup>5,6</sup>, Christine L Larson<sup>10</sup>, Sarah Laskowitz<sup>11</sup>, Lauren AM Lebois<sup>12,13</sup>, Rajendra A Morey<sup>11,14</sup>, Mary R Newsome<sup>15,16</sup>, Cori Palermo<sup>12,13</sup>, Nicholas J Pastorek<sup>16</sup>, Abigail Powers<sup>7</sup>, Randall Scheibel<sup>15,16</sup>, Soraya Seedat<sup>17</sup>, Antonia Seligowski<sup>12,13</sup>, Dan Stein<sup>5,6</sup>, Jennifer Stevens<sup>7</sup>, Delin Sun<sup>11,14</sup>, Paul Thompson<sup>18</sup>, Maya Troyanskaya<sup>15,16</sup>, Sanne JH van Rooij<sup>7</sup>, Amanda Watts<sup>11</sup>, Carissa N Weis<sup>19</sup>, Wright Williams<sup>16</sup>, Frank G Hillary<sup>20,21</sup>, Mary Jo Pugh<sup>1-3</sup>, Elisabeth A Wilde<sup>1,2</sup>, David F Tate<sup>1,2</sup> (2021). **Harmonizing PTSD severity scales across instruments and sites**, to be submitted, Oct. 2021.

1014. Rachel M. Brouwer<sup>1</sup>, Marieke Klein<sup>1-4</sup>, Katrina L. Grasby<sup>5</sup>, Hugo G. Schnack<sup>1</sup>, Neda Jahanshad<sup>6</sup>, Jalmar Teeuw<sup>1</sup>, Sophia I. Thomopoulos<sup>6</sup>, Emma Sprooten<sup>7</sup>, Carol E. Franz<sup>8</sup>, Nitin Gogtay<sup>9</sup>, William S. Kremen<sup>8,10</sup>, Matthew S. Panizzon<sup>8</sup>, Loes M. Olde Loohuis<sup>11</sup>, Christopher D. Whelan<sup>12</sup>, Moji Aghajani<sup>13</sup>, Clara Alloza<sup>14</sup>, Dag Alnæs<sup>15,16</sup>, Eric Artiges<sup>17</sup>, Rosa Ayesa-Arriola<sup>18</sup>, Gareth J. Barker<sup>19</sup>, Elisabet Blok<sup>20</sup>, Erlend Bøen<sup>21</sup>, Isabella A. Breukelaar<sup>22</sup>, Joanna K. Bright<sup>6</sup>, Elizabeth E. L. Buimer<sup>1</sup>, Robin Bülow<sup>23</sup>, Dara

M. Cannon<sup>24</sup>, Simone Ciufolini <sup>25</sup>, Nicolas A. Crossley<sup>25,26</sup>, Christienne G. Damatac<sup>7</sup>, Paola Dazzan<sup>27</sup>, Casper L. de Mol<sup>28</sup>, Sonja M. C. de Zwart<sup>1</sup>, Sylvane Desrivieres<sup>29</sup>, Covadonga M. Díaz-Caneja<sup>14</sup>, Nhat Trung Doan<sup>15</sup>, Katharina Dohm<sup>30</sup>, Juliane H. Fröhner<sup>31</sup>, Janik Goltermann<sup>30</sup>, Antoine Grigis<sup>32</sup>, Dominik Grotegerd<sup>30</sup>, Laura K. M. Han<sup>13</sup>, Catharina A. Hartman<sup>33</sup>, Sarah J. Heany<sup>34</sup>, Walter Heindel<sup>35</sup>, Dirk J. Heslenfeld<sup>36</sup>, Sarah Hohmann<sup>37</sup>, Bernd Ittermann<sup>38</sup>, Philip R. Jansen<sup>20,39</sup>, Joost Janssen<sup>14</sup>, Tianye Jia<sup>40,41</sup>, Jiyang Jiang<sup>42</sup>, Christiane Jockwitz<sup>43,44</sup>, Temmuz Karali<sup>45,46</sup>, Daniel Keeser<sup>45–47</sup>, Martijn G. J. C. Koevoets<sup>1</sup>, Rhoshel K. Lenroot<sup>48–50</sup>, Berend Malchow<sup>51</sup>, René C. W. Mandl<sup>1</sup>, Vicente Medel<sup>26</sup>, Susanne Meinert<sup>30</sup>, Catherine A. Morgan<sup>52,53</sup>, Thomas W. Mühlisen<sup>43,54,55</sup>, Leila Nabulsi<sup>24</sup>, Nils Opel<sup>30</sup>, Víctor Ortiz-García de la Foz<sup>56</sup>, Bronwyn J. Overs<sup>50</sup>, Marie-Laure Paillère Martinot<sup>17,57</sup>, Erin B. Quinlan<sup>41</sup>, Ronny Redlich<sup>58</sup>, Tiago Reis Marques<sup>25,59</sup>, Jonathan Repple<sup>30</sup>, Gloria Roberts<sup>48</sup>, Gennady V. Roshchupkin<sup>60,61</sup>, Nikita Setiawan<sup>1,20</sup>, Elena Shumskaya<sup>3,7</sup>, Frederike Stein<sup>62</sup>, Gustavo Sudre<sup>63</sup>, Shun Takahashi<sup>45,64</sup>, Anbupalam Thalamuthu<sup>42</sup>, Diana Tordesillas-Gutiérrez<sup>56,65</sup>, Aad van der Lugt<sup>61</sup>, Neeltje E. M. van Haren<sup>1,20</sup>, Wei Wen<sup>42</sup>, Henk-Jan Westeneng<sup>66</sup>, Katharina Wittfeld<sup>67,68</sup>, Andre Zugman<sup>69</sup>, Nicola J. Armstrong<sup>70</sup>, Janita Bralten<sup>3</sup>, Shareefa Dalvie<sup>34</sup>, Marta Di Forti<sup>29</sup>, Linda Ding<sup>6</sup>, Gary Donohoe<sup>71</sup>, Andreas J. Forstner<sup>72,73</sup>, Javier Gonzalez-Peñas<sup>14</sup>, Joao P. O. F. T. Guimaraes<sup>3,7</sup>, Georg Homuth<sup>74</sup>, Jouke-Jan Hottenga<sup>75</sup>, Maria J. Knol<sup>60</sup>, John B. J. Kwok<sup>76,77</sup>, Stephanie Le Hellard<sup>78,79</sup>, Karen A. Mather<sup>42,50</sup>, Yuri Milaneschi<sup>13</sup>, Derek W. Morris<sup>71</sup>, Markus M. Nöthen<sup>73</sup>, Sergi Papiol<sup>45,65,80</sup>, Marcella Rietschel<sup>81</sup>, Marcos L. Santoro<sup>69,82</sup>, Vidar M. Steen<sup>78,79</sup>, Jason L. Stein<sup>83</sup>, Fabian Streit<sup>81</sup>, Rick M. Tankard<sup>70</sup>, Alexander Teumer<sup>84</sup>, Dennis van 't Ent<sup>75</sup>, Dennis van der Meer<sup>15,16,85</sup>, Kristel R. van Eijk<sup>66</sup>, Evangelos Vassos<sup>29,86</sup>, Javier Vázquez-Bourgon<sup>65,87</sup>, Stephanie H. Witt<sup>81</sup>, Alzheimer's Disease Neuroimaging Initiative\*, Heeb H. H. Adams<sup>61,88</sup>, Ingrid Agartz<sup>15,89,90</sup>, David Ames<sup>91,92</sup>, Katrin Amunts<sup>43,54</sup>, Ole A. Andreassen<sup>15,16</sup>, Celso Arango<sup>14</sup>, Tobias Banaschewski<sup>37</sup>, Bernhard T. Baune<sup>30,93,94</sup>, Sintia I. Belangero<sup>69,82</sup>, Arun L. W. Bokde<sup>95</sup>, Dorret I. Boomsma<sup>96</sup>, Rodrigo A. Bressan<sup>69,97</sup>, Henry Brodaty<sup>42</sup>, Jan K. Buitelaar<sup>7,98</sup>, Wiepke Cahn<sup>1,99</sup>, Svenja Caspers<sup>43,100</sup>, Sven Cichon<sup>43,55,101</sup>, Benedicto Crespo Facorro<sup>65,102</sup>, Udo Dannlowski<sup>30</sup>, Torbjørn Elvsåshagen<sup>103–105</sup>, Thomas Espeseth<sup>106,107</sup>, Peter G. Falkai<sup>45</sup>, Simon E. Fisher<sup>4,108</sup>, Herta Flor<sup>109</sup>, Janice M. Fullerton<sup>50,77</sup>, Hugh Garavan<sup>110</sup>, Penny A. Gowland<sup>111</sup>, Hans J. Grabe<sup>67,68</sup>, Tim Hahn<sup>30</sup>, Andreas Heinz<sup>112</sup>, Manon Hillegers<sup>1,20</sup>, Jacqueline Hoare<sup>34</sup>, Pieter J. Hoekstra<sup>113</sup>, Mohammad A. Ikram<sup>60</sup>, Andrea P. Jackowski<sup>69</sup>, Andreas Jansen<sup>62,114</sup>, Erik G. Jönsson<sup>15,89</sup>, Rene S. Kahn<sup>115,116</sup>, Tilo Kircher<sup>62</sup>, Mayuresh S. Korgaonkar<sup>22,76</sup>, Axel Krug<sup>62,117</sup>, Herve Lemaitre<sup>118</sup>, Ulrik F. Malt<sup>119</sup>, Jean-Luc Martinot<sup>17</sup>, Colm McDonald<sup>24</sup>, Philip B. Mitchell<sup>48,120</sup>, Ryan L. Muetzel<sup>20</sup>, Robin M. Murray<sup>26</sup>, Frauke Nees<sup>109,121</sup>, Igor Nenadic<sup>62</sup>, Jaap Oosterlaan<sup>122</sup>, Roel A. Ophoff<sup>11,123</sup>, Pedro M. Pan<sup>69,124</sup>, Brenda W. J. H. Penninx<sup>13</sup>, Luise Poustka<sup>125</sup>, Perminder S. Sachdev<sup>42,126</sup>, Giovanni A. Salum<sup>127,128</sup>, Peter R. Schofield<sup>50,77</sup>, Gunter Schumann<sup>41,129,130</sup>, Philip Shaw<sup>63,131</sup>, Kang Sim<sup>132,133</sup>, Michael N. Smolka<sup>134</sup>, Dan J. Stein<sup>135</sup>, Julian Trollor<sup>42,136</sup>, Leonard H. van den Berg<sup>66</sup>, Jan H. Veldink<sup>66</sup>, Henrik Walter<sup>137</sup>, Lars T. Westlye<sup>15,16,106</sup>, Robert Whelan<sup>138</sup>, Tonya White<sup>20,61</sup>, Margaret J. Wright<sup>139,140</sup>, Sarah E. Medland<sup>141</sup>, Barbara Franke<sup>3,4,142</sup>, Paul M. Thompson<sup>6</sup>, Hilleke E. Hulshoff Pol (2021). Age-dependent genetic variants associated with longitudinal changes in brain structure across the lifespan, revised version submitted to **Nature Neuroscience**, Oct. 25 2021.

1015. Leila Nabulsi<sup>a</sup>, Katherine E. Lawrence<sup>a</sup>, Vigneshwaran Santhalingam<sup>a</sup>, Zvart Abaryan<sup>a</sup>, Christina P. Boyle<sup>a</sup>, Julio E. Villalon-Reina<sup>a</sup>, Talia M. Nir<sup>a</sup>, Iyad Ba Gari<sup>a</sup>, Alyssa H. Zhu<sup>a</sup>, Elizabeth Haddad<sup>a</sup>, Alexandra M. Muir<sup>a</sup>, Neda Jahanshad<sup>a</sup>, and Paul M. Thompson (2021). **Exogenous sex hormone effects on brain microstructure in women: A diffusion MRI study in the UK Biobank, to be submitted to Human Brain Mapping, Dec. 2021.**
1016. Helen Baldwin, MSc<sup>1,2</sup>; Joaquim Radua, MD, PhD<sup>1,3,4</sup>; Mathilde Antoniades, PhD<sup>5</sup>; Shalaila S Haas PhD<sup>5</sup>, Sophia Frangou, MD, PhD<sup>5,6</sup>; Maria Jalbrzikowski, PhD<sup>7,8,9</sup>; Dennis Hernaus, PhD<sup>10</sup>; Ingrid Agartz, MD, PhD<sup>11,12</sup>; Paul Allen, PhD<sup>13,14</sup>; Ole A Andreassen, PhD<sup>15</sup>; Kimberley Atkinson, MSc<sup>16</sup>; Peter Bachman, PhD<sup>17</sup>; Inmaculada Baeza, MD, PhD, DSc<sup>18</sup>; Cali F Bartholomeusz, PhD<sup>19,20</sup>; Tiziano Colibazzi, MD<sup>21,22</sup>; Rebecca E Cooper, BBmed (Hons)<sup>23</sup>; Cheryl M Corcoran, MD<sup>24,25</sup>; Vanessa L Croyley, PhD<sup>23,26</sup>; Bjørn H Ebdrup, MD, PhD<sup>27,28</sup>; Adriana Fortea, MD<sup>29</sup>; Holly K Hamilton, PhD<sup>30,31</sup>; Kristen M Haut, PhD<sup>32</sup>; Rebecca A Hayes, PhD<sup>17</sup>; Ying He, MD, PhD<sup>33</sup>; Karsten Heekeren, MD, MA<sup>34,35</sup>; Michael Kaess, MD<sup>36,37</sup>; Kiyoto Kasai, MD, PhD<sup>38,39,40</sup>; Naoyuki Katagiri, MD, PhD<sup>41</sup>; Minah Kim, MD, PhD<sup>42,43</sup>; Jochen Kindler, MD<sup>37</sup>; Mallory J Klaunig, PhD<sup>44</sup>; Shinsuke Koike, MD, PhD<sup>39,45</sup>; Alex Koppel, HBSc<sup>46</sup>; Tina D Kristensen, MSc, PhD<sup>27,47</sup>; Yoo Bin Kwak, BA<sup>48</sup>; Stephen M Lawrie, MD (Hons)<sup>16</sup>; Irina Lebedeva, PhD, DSci<sup>49</sup>; Jimmy Lee, MBBS MMed<sup>50,51</sup>; Ashleigh Lin, PhD<sup>52</sup>; Rachel L Loewy, PhD<sup>30</sup>; Daniel H Mathalon, MD, PhD<sup>30,31</sup>; Chantal Michel, PhD<sup>37</sup>; Romina Mizrahi, MD, PhD<sup>53,54</sup>; Paul Møller, MD, PhD<sup>55</sup>; Ricardo Mora-Durán, MD<sup>56</sup>; Barnaby Nelson, PhD<sup>19,20</sup>; Takahiro Nemoto, MD, PhD<sup>41</sup>; Dorte Nordholm, MD, PhD<sup>47</sup>; Maria A Omelchenko, PhD<sup>57</sup>; Christos Pantelis, MD<sup>23,58</sup>; Jayachandra M Raghava, PhD<sup>27,59,60</sup>; Jan I Røssberg, MD, PhD<sup>15</sup>; Wulf Rössler, MSc, MD<sup>35,61</sup>; Dean F Salisbury, PhD<sup>17</sup>; Daiki Sasabayashi, MD, PhD<sup>62,63</sup>; Ulrich Schall, MD, PhD, DSc<sup>64,65</sup>; Lukasz Smigielski, PhD<sup>35,66</sup>; Gisela Sugranyes, MD, PhD<sup>18</sup>; Michio Suzuki, MD, PhD<sup>62,63</sup>; Tsutomu Takahashi, MD, PhD<sup>62,63</sup>; Christian K Tamnes, PhD<sup>11,15,67</sup>; Jinsong Tang, MD, PhD<sup>68,69</sup>; Anastasia Theodoridou, MD, PhD<sup>35</sup>; Sophia I Thomopoulos, BA<sup>70</sup>; Paul M Thompson, PhD<sup>70</sup>; Alexander S Tomyshev, MSc<sup>49</sup>; Peter J Uhlhaas, PhD<sup>71,72</sup>; Tor G Værnes, MSc<sup>15,73</sup>; Therese AMJ van Amelsvoort, MD, PhD<sup>74</sup>; Theo GM Van Erp, PhD<sup>75,76</sup>; James A Waltz, PhD<sup>77</sup>; Lars T Westlye, PhD<sup>15,78,79</sup>; Stephen J Wood, PhD<sup>19,20,80</sup>; Juan H Zhou, PhD<sup>81,82</sup>; Philip McGuire, MD, PhD<sup>83</sup>; Paolo Fusar-Poli, MD, PhD<sup>1,2,84,85</sup>; & the ENIGMA Clinical High Risk for Psychosis Working Group (2021). **NEUROANATOMICAL HETEROGENEITY AND HOMOGENEITY IN INDIVIDUALS AT CLINICAL HIGH-RISK FOR PSYCHOSIS**, submitted to JAMA Psychiatry, Nov. 2021.
1017. Harald Hampel, MD, PhD; Peng Gao, PhD; Jeffrey Cummings, MD, ScD; [...]; **Paul M. Thompson**, PhD; [...]; Min Cho, PhD; Andrea Vergallo, MD (2021). **The Foundation and Architecture of Precision Medicine in Neurology and Psychiatry**, to be submitted to **Nature Medicine**, Dec. 2021.
1018. Artemis Zavaliangos-Petropulu, Bethany Lo, Miranda Donnelly, Nicolas Schweighofer, Keith Lohse, Neda Jahanshad, Giuseppe Barisano, Nerisa Banaj, Michael Borich, Lara Boyd, Cathrin Buetefisch, Winston Byblow, Jessica Cassidy, Charalambous Charalambous, Adriana Conforto, Julie DiCarlo, Adrienne Dula, Natalia Egorova-Brumley, Mark Etherton, Wayne Feng, Kelene Fercho, Fatemeh Geranmayeh, Colleen Hanlon, Kathryn Hayward, Brenton Hordacre, Steven Kautz, Mohamed Salah Khelif, Hosung Kim, Amy Kuceyeski,

David Lin, Martin Lotze, Jingchun Liu, Bradley MacIntosh, John Margetis, Fabrizio Piras, Ander Ramos-Murguialday, Kate Revill, Pamela Roberts, Andrew Robertson, Heidi Schambra, Na Jin Seo, Mark Shiroishi, Surjo Soekadar, Gianfranco Spalletta, Myriam Taga, Wai Kwong Tang, Gregory Thielman, Daniela Vecchio, Nick Ward, Lars Westlye, Emilio Werden, Carolee Winstein, George Wittenberg, Steven Wolf, Kristin Wong, Chunshui Yu, Amy Brodtmann, Steven Cramer, Paul Thompson, and Sook-Lei Liew (2022).

Chronic stroke sensorimotor impairment is related to smaller hippocampal volumes: An ENIGMA analysis, submitted to **Stroke**, Nov. 3 2021.

1019. Maria J. Knol; Raymond A. Poot; Tavia E. Evans; Claudia L. Satizabal; Aniket Mishra; Sandra van der Auwera; Marie-Gabrielle Duperron; Xueqiu Jian; Isabel C. Hostettler; Dianne H.K. van Dam-Nolen; Sander Lamballais; Mikolaj A. Pawlak; Cora E. Lewis; Amaia Carrion-Castillo; Theo G.M. van Erp; Céline S. Reinbold; Jean Shin; Markus Scholz; Asta K. Håberg; Anders Kämpe; Gloria H.Y. Li; Reut Avinun; Joshua R. Atkins; Fang-Chi Hsu; Alyssa R. Amod; Max Lam; Ami Tsuchida; Mariël W.A. Teunissen; Nil Ayygün; Yash Patel; Dan Liang; Alexa S. Beiser; Frauke Beyer; Joshua C. Bis; Daniel Bos; R. Nick Bryan; Robin Bülow; Svenja Caspers; Gwenaëlle Catheline; Charlotte A.M. Cecil; Shareefa Dalvie; Jean-François Dartigues; Charles DeCarli; Maria Enlund-Cerullo; Judith M. Ford; Barbara Franke; Barry I. Freedman; Nele Friedrich; Melissa J. Green; Simon Haworth; Catherine Helmer; Per Hoffmann; Georg Homuth; M. Kamran Ikram; Clifford R. Jack, Jr.; Neda Jahanshad; Christiane Jockwitz; Yoichiro Kamatani; Annchen R. Knodt; Shuo Li; Keane Lim; W. T. Longstreth Jr; Fabio Macciardi; Outi Mäkitie; Bernard Mazoyer; Sarah E. Medland; Susumu Miyamoto; Susanne Moebus; Thomas H. Mosley; Ryan Muetzel; Thomas W. Mühleisen; Manabu Nagata; Soichiro Nakahara; Nicholette D. Palmer; Zdenka Pausova; Adrian Preda; Yann Quidé; William R. Reay; Gennady V. Roshchupkin; Reinhold Schmidt; Pamela J. Schreiner; Kazuya Setoh; Chin Yang Shapland; Stephen Sidney; Beate St Pourcain; Jason L. Stein; Yasuharu Tabara; Alexander Teumer; Anne Uhlmann; Aad van der Lugt; Meike W. Vernooij; David J. Werring; B. Gwen Windham; A. Veronica Witte; Katharina Wittfeld; Qiong Yang; Kazumichi Yoshida; Han G. Brunner; Quentin Le Grand; Kang Sim; Dan J. Stein; Donald W. Bowden; Murray J. Cairns; Ahmad R. Hariri; Ching-Lung Cheung; Sture Andersson; Arno Villringer; Tomas Paus; Sven Cichon; Vince D. Calhoun; Fabrice Crivello; Lenore J. Launer; Tonya White; Peter J. Koudstaal; Henry Houlden; Myriam Fornage; Fumihiko Matsuda; Hans J. Grabe; M. Arfan Ikram; Stéphanie Debette; Paul M. Thompson; Sudha Seshadri; Hieab H.H. Adams (2021). **Genetic variants for head size share genes and pathways with cancer**, submitted to **Neuron**, Nov. 30 2021.

1020. Sarah Whittle<sup>1,\*</sup>, Divyangana Rakesh<sup>1,\*</sup>, Lianne Schmaal<sup>2</sup>, Dick J. Veltman<sup>3,4</sup>, Paul M. Thompson<sup>5</sup>, Aditya Singh<sup>6</sup>, Ali Saffet Gonul<sup>7</sup>, Andre Aleman<sup>8</sup>, Aslihan Uyar Demir<sup>7</sup>, Axel Krug<sup>9</sup>, Benson Mwangi<sup>10</sup>, Bernd Krämer<sup>11</sup>, Bernhard T. Baune<sup>12,13</sup>, Dan J. Stein<sup>14</sup>, Dominik Grotegerd<sup>15</sup>, Edith Pomarol-Clotet<sup>16,17</sup>, Elena Rodríguez-Cano<sup>18</sup>, Elisa Melloni<sup>19</sup>, Francesco Benedetti<sup>20,21</sup>, Frederike Stein<sup>22</sup>, Hans J. Grabe<sup>23,24</sup>, Henry Völzke<sup>25</sup>, Ian H. Gotlib<sup>26</sup>, Igor Nenadić<sup>27</sup>,



- Jair C. Soares<sup>10</sup>, Jonathan Repple<sup>15</sup>, Kang Sim<sup>28</sup>, Katharina Brosch<sup>27</sup>, Katharina Wittfeld<sup>23,24</sup>, Klaus Berger<sup>29</sup>, Marco Hermesdorf<sup>29</sup>, Maria J. Portella<sup>30,17</sup>, Matthew D. Sacchet<sup>31</sup>, Mon-Ju Wu<sup>10</sup>, Nils Opel<sup>15</sup>, Nynke A. Groenewold<sup>32</sup>, Oliver Gruber<sup>11</sup>, Paola Fuentes-Claramonte<sup>16,17</sup>, Raymond Salvador<sup>16,17</sup>, Roberto Goya-Maldonado<sup>6</sup>, Salvador Sarró<sup>16,17</sup>, Sara Poletti<sup>33,21</sup>, Susanne L. Meinert<sup>15</sup>, Tilo Kircher<sup>22</sup>, Udo Dannlowski<sup>15</sup>, Elena Pozzi<sup>1,2</sup> (2021). The role of educational attainment and brain morphology in major depressive disorder: findings from the ENIGMA Major Depressive Disorder consortium, **Journal of Abnormal Psychology**, submitted, Dec. 2021.
1021. Eleonora Maggioni; Maria G. Rossetti; Nicholas B. Allen; Albert Batalla; Marcella Bellani; Yann Chye; Janna Cousijn; Anna E. Goudriaan; Robert Hester; Kent Hutchison; Chiang-Shan R. Li; Rocio Martin-Santos; Reza Momenan; Rajita Sinha; Lianne Schmaal; Nadia Solowij; Chao Suo; Ruth J. van Holst; Dick Veltman; Murat Yücel; Paul M. Thompson; Patricia Conrod; Scott Mackey; Hugh Garavan; Paolo Brambilla; Valentina Lorenzetti (2021). **Brain structural abnormalities in alcohol dependence: do females and males differ? A whole-brain Magnetic Resonance Imaging mega-analysis from the ENIGMA Addiction Working Group**, submitted to **Neuron**, Dec. 2021.
1022. Bhim M. Adhikari<sup>1</sup>, L. Elliot Hong<sup>1</sup>, Zhiwei Zhao<sup>2</sup>, Danny J. J. Wang<sup>3</sup>, Paul M. Thompson<sup>4</sup>, Neda Jahanshad<sup>4</sup>, Alyssa Zhu<sup>4</sup>, Jessica A. Turner<sup>5</sup>, Theo G.M. van Erp<sup>6,7</sup>, Vince D. Calhoun<sup>8,9</sup>, Kathryn S. Hatch<sup>1</sup>, Heather Bruce<sup>1</sup>, Stephanie Hare<sup>1</sup>, Joshua Chiappelli<sup>1</sup>, Eric L. Goldwaser<sup>1</sup>, Mark D. Kvarita<sup>1</sup>, Yizhou Ma<sup>1</sup>, Xiaoming Du<sup>1</sup>, Thomas E. Nichols<sup>9</sup>, Alan R. Shuldiner<sup>11</sup>, Braxton D. Mitchell<sup>11</sup>, Shuo Chen<sup>1\*</sup>, Peter Kochunov<sup>1\*</sup> (2022). **Cerebral Blood Flow and Cardiovascular Risk Effects on Resting Brain Regional Homogeneity, to be submitted to PNAS, Jan. 2022.**
1023. Ann Alex<sup>1</sup>, Fernando Aguatero<sup>2</sup>, Kelly Botteron<sup>2</sup>, Claudia Buss, Yap-Seng Chong<sup>5</sup>, Stephen Dager<sup>6</sup>, Kirsten A. Donald<sup>7,8</sup>, Sonja Entringer Nadine Gaab<sup>9</sup>, John H. Gilmore<sup>10</sup>, Jessica B. Girault<sup>10,11</sup>, Nynke Groenewold<sup>7,8,12</sup>, Heather Hazlett<sup>11</sup>, Weili Lin<sup>13</sup>, Michael J. Meaney<sup>14</sup>, Joseph Piven<sup>10,11</sup>, Anqi Qiu<sup>15</sup>, Jerod Rasmussen<sup>4,16</sup>, Annerine Roos<sup>17</sup>, Robert T. Schultz<sup>18</sup>, Michael A. Skeide<sup>19</sup>, Dan J. Stein<sup>8,17,20</sup>, Martin Styner<sup>10,21</sup>, Paul M. Thompson<sup>22</sup>, Theodore K. Turesky, Pathik Wadhwa<sup>16</sup>, Heather J. Zar<sup>12,23</sup>, Lilla Zollei<sup>24</sup>, Gustavo de los Campos, Rebecca Knickmeyer<sup>1,26</sup>, for the ENIGMA ORIGINS group (2022). Mapping Subcortical Brain Development and Cognition in Infancy and Early Childhood: A Global, Multi-Cohort Study, to be submitted to **Nature Neuroscience**, Jan. 2022.
1024. Shan Luo<sup>1,2,3,4\*</sup>, Eustace Hsu<sup>1</sup>, Katherine E. Lawrence<sup>5</sup>, Shana Adise<sup>6</sup>, Megan M. Herting<sup>7,8,9</sup>, Thomas Buchanan<sup>1,2</sup>, Kathleen A. Page<sup>1,2,9</sup>, Paul M. Thompson (2022). **Associations between prenatal exposure to maternal diabetes and child adiposity markers: mediating effects of brain structure**, to be submitted, Feb. 2022.
1025. Laurena Holleran, ..., Paul M. Thompson, .... Gary Donohoe (2022). An ENIGMA Consortium Study of the Relationship between White Matter Microstructure and

Positive and Negative Symptom Severity in Patients with Schizophrenia, to be submitted, Feb. 2022.

1026. Sara Bertolin, ..., Paul Thompson, ..., Odile van den Heuvel, Carles Soriano-Mas (2022). **Right prefrontal cortical thickness is associated with response to cognitive-behavioral therapy in children with obsessive-compulsive disorder**, to be submitted, Feb. 2022.
1027. Thiago JR Rezende<sup>1,2</sup> PhD, Isaac Adanyeguh<sup>3</sup> PhD, Filippo Arrigoni<sup>4</sup> MD, Benjamin Bender<sup>5</sup> MD, Fernando Cendes<sup>1,2</sup> MD PhD, Louise A Corben<sup>6,7,8</sup> PhD, Andreas Deistung<sup>9,10</sup> PhD, Martin Delatycki<sup>7,8</sup> PhD, Imis Dogan<sup>11,12</sup> PhD, Gary F Egan<sup>6,13</sup> PhD, Sophia L Göricke<sup>14</sup> MD, Nellie Georgiou-Karistianis<sup>6</sup> PhD, Pierre-Gilles Henry<sup>3</sup> PhD, Diane Hutter<sup>3</sup> RN, James M Joers<sup>3</sup> PhD, Christophe Lenglet<sup>3</sup> PhD, Tobias Lindig<sup>5</sup> MD, Alberto RM Martinez<sup>1,2</sup> MD PhD, Andrea Martinuzzi<sup>15</sup> PhD MD, Gabriella Paparella<sup>15</sup> MD, Denis Peruzzo<sup>4</sup> PhD, Kathrin Reetz<sup>11,12</sup> MD, Sandro Romanzetti<sup>11,12</sup> PhD, Ludger Schöls<sup>16</sup>, Jörg B Schulz<sup>11,12</sup> MD, Matthis Synofzik<sup>16</sup> MD, Sophia I Thomopoulos<sup>17</sup> BA, ..., Paul M Thompson<sup>17</sup> PhD, Dagmar Timmann<sup>10</sup> MD, Ian H Harding<sup>\*13,18</sup> PhD, Marcondes C. França Jr<sup>\*1,2</sup> MD PhD (2022). **Spinal cord degeneration in Friedreich's ataxia: Results from the ENIGMA-Ataxia working group**, to be submitted, Feb. 2022.
1028. Hettwer MD<sup>1-4\*</sup>, Larivière S<sup>5</sup>, Park BY<sup>5-7</sup>, van den Heuvel OA<sup>8</sup>, Schmaal L<sup>9,10</sup>, Andreassen OA<sup>11</sup>, Ching CRK<sup>12</sup>, Hoogman M<sup>13</sup>, Buitelaar J<sup>13</sup>, Veltman DJ<sup>8</sup>, Stein DJ<sup>14</sup>, Franke B<sup>13</sup>, van Erp TGM<sup>17,18</sup>, ENIGMA ADHD Working Group, ENIGMA Autism Working Group, ENIGMA Bipolar Disorder Working Group, ENIGMA Major Depression Working Group, ENIGMA OCD Working Group, ENIGMA Schizophrenia Working Group, Jahanshad N<sup>12</sup>, Thompson PM<sup>12</sup>, Thomopoulos SI<sup>12</sup>, Bethlehem RAI<sup>15,16</sup>, Bernhardt BC<sup>5</sup>, Eickhoff SB<sup>2,4</sup>, Valk SL<sup>2,4\*</sup> (2022). **COORDINATED CORTICAL THICKNESS ALTERATIONS ACROSS PSYCHIATRIC CONDITIONS: A TRANSDIAGNOSTIC ENIGMA STUDY**, submitted, Feb. 2022.
1029. Amirhossein Modabbernia<sup>1</sup>, Didac Vidal-Pineiro<sup>2</sup>, ..., Paul M. Thompson, [50+ ENIGMA Lifespan cohort PIs], ..., Tomas Paus<sup>3,4,5</sup>, Sophia Frangou (2022). **Cellular and Biological Mechanisms of Cortical Thinning Across the Lifespan**, to be submitted to *Cerebral Cortex*, Feb. 2022.
1030. Elizabeth Haddad<sup>1</sup>, Fabrizio Pizzagalli<sup>1,2</sup>, Alyssa H. Zhu<sup>1</sup>, Ravi R. Bhatt, Iyad Ba Gari<sup>1</sup>, Daniel Dixon<sup>1</sup>, Tasfiya Islam<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Paul M. Thompson<sup>1</sup>, Neda Jahanshad (2022). **Multisite Test-Retest Reliability and Compatibility of Brain Metrics derived from FreeSurfer Versions 7.1, 6.0, and 5.3**, to be submitted to *Human Brain Mapping*, Feb. 2022.
1031. Amirhossein Modabbernia; Heather C. Whalley; David C. Glahn; Paul M. Thompson; Rene S. Kahn; Sophia Frangou (2022). Systematic Evaluation of Machine Learning Algorithms for Neuroanatomically-Based Age Prediction in Youth, *NeuroImage*, submitted, Feb. 28 2022.
1032. Zhipeng Cao<sup>1</sup>, Renata B. Cupertino<sup>1</sup>, Jonatan Ottino-Gonzalez<sup>1</sup>, Alistair Murphy<sup>1</sup>, Devarshi Pancholi<sup>1</sup>, Anthony Juliano<sup>1</sup>, Bader Chaarani<sup>1</sup>, Dekang Yuan<sup>1</sup>, Nathan Schwab<sup>1</sup>, James Stafford<sup>2</sup>, Anna E. Goudriaan<sup>3</sup>, Kent Hutchison<sup>4</sup>, Chiang-Shan R. Li<sup>5</sup>, Maartje Luijten<sup>6</sup>, Martine Groefsema<sup>6</sup>, Reza Momenan<sup>7</sup>, Lianne Schmaal<sup>8,9</sup>, Rajita Sinha<sup>5</sup>, Zsuzsika Sjoerds<sup>10</sup>, Ruth J. van Holst<sup>3</sup>, Dick J. Veltman<sup>3</sup>, Reinout W. Wiers<sup>11</sup>, Bernice Porjesz<sup>12</sup>, Tristram Lett<sup>13</sup>, Tobias Banaschewski<sup>14</sup>, Arun L. W. Bokde<sup>15</sup>, Erin Burke Quinlan<sup>16</sup>, Sylvane Desrivieres<sup>16,17</sup>, Herta Flor<sup>18</sup>, Antoine Grigis<sup>19</sup>, Penny Gowland<sup>20</sup>, Andreas

Heinz<sup>13</sup>, Rüdiger Brühl<sup>21</sup>, Jean-Luc Martinot<sup>22,23</sup>, Marie-Laure Paillère Martinot<sup>22,24</sup>, Eric Artiges<sup>18,22</sup>, Frauke Nees<sup>14</sup>, Dimitri Papadopoulos Orfanos<sup>19</sup>, Tomáš Paus<sup>25</sup>, Luise Poustka<sup>26</sup>, Sarah Hohmann<sup>14</sup>, Sabina Millenet<sup>14</sup>, Juliane H. Fröhner<sup>27</sup>, Lauren Robinson<sup>28</sup>, Michael N. Smolka<sup>27</sup>, Henrik Walter<sup>13,29</sup>, Jeanne Winterer<sup>13,30</sup>, Gunter Schumann<sup>16</sup>, Robert Whelan<sup>31</sup>, Ravi Bhatt<sup>32</sup>, Patricia Conrod<sup>33</sup>, Neda Jahanshad<sup>32</sup>, Paul M. Thompson<sup>34</sup>, Scott Mackey<sup>1</sup>, Hugh Garavan<sup>1</sup>, the IMAGEN Consortium, the ENIGMA Addiction Working Group (2022). **Cortical profiles of numerous neuropsychiatric disorders and normal development share a common pattern**, to be submitted to **JAMA Psychiatry**, March 2022.

1033. Max A. Laansma MSc, Joanna K. Bright, Neda Jahanshad PhD, Paul M. Thompson PhD, Ysbrand D. van der Werf PhD (2022). **Reply to the Letter to the Editor: “Parkinson’s Disease, Premature Mortality and Amygdala” by Scorza, Almeida, Scorza, and Finsterer. Movement Disorders, 2022.**

1034. Katri Silvennoinen,<sup>1,2†</sup> Kinga Gawel,<sup>3,4†</sup> **Despina Tsortouktzidis,**<sup>5,6†</sup> Julika Pitsch,<sup>5,6</sup> Saud Alhusaini,<sup>7,8</sup> Karen M. J. van Loo,<sup>5,9</sup> Richard Picardo,<sup>10</sup> Zuzanna Michalak,<sup>10</sup> Susanna Pagni,<sup>1,2</sup> Helena Martins Custodio,<sup>1,2</sup> James Mills,<sup>1,2</sup> Christopher D. Whelan,<sup>7,11</sup> Greig I. de Zubicaray,<sup>12</sup> Katie L. McMahon,<sup>13</sup> Wietske van der Ent,<sup>3</sup> Karolina J. Kirstein-Smardzewska,<sup>3</sup> Ettore Tiraboschi,<sup>3</sup> Jonathan M. Mudge,<sup>14</sup> Adam Frankish,<sup>14</sup> Maria Thom,<sup>10</sup> Margaret J. Wright,<sup>15</sup> Paul M. Thompson,<sup>11</sup> **Susanna Schoch,**<sup>5,6</sup> Albert J. Becker,<sup>5\*</sup> Camila V Esguerra,<sup>3\*</sup> and Sanjay M. Sisodiya<sup>1,2\*</sup> (2022). **SCN1A overexpression, linked to a risk variant for a common epilepsy, raises seizure susceptibility**, to be submitted, March 2022.

1035. Esther Walton; Fabio Bernardoni; Victoria-Luise Batury; Klaas Bahnsen; Sara Larivière; Giovanni Abbate-Daga; Susana Andres-Perpiña; Lasse Bang; Amanda Bischoff-Grethe; Samantha J Brooks; Iain C Campbell; Giammarco Cascino; Josefina Castro-Fornieles; Enrico Collantoni; Federico D'Agata; Brigitte Dahmen; Unna N Danner; Angela Favaro; Jamie D Feusner; Guido KW Frank; Hans-Christoph Friederich; John L Graner; Beate Herpertz-Dahlmann; Andreas Hess; Stefanie Horndasch; Allan S Kaplan; Lisa-Katrin Kaufmann; Walter H Kaye; Sahib S Khalsa; Kevin S LaBar; Luca Lavagnino; Luisa Lazaro; Renzo Manara; Amy E Miles; Gabriella F. Milos; Alessio Maria Monteleone; Palmiero Monteleone; Benson Mwangi; Owen O'Daly; Jose Pariente; Julie Roesch; Ulrike H Schmidt; Jochen Seitz; Megan E Shott; Joe J Simon; Paul A.M. Smeets; Christian K Tamnes; Elena Tenconi; Sophia I. Thomopoulos; Annemarie A. van Elburg; Aristotle N Voineskos; Georg G von Polier; Christina E Wierenga; Nancy L Zucker; Neda Jahanshad; Joseph A King; Paul M. Thompson; Laura A Berner; Stefan Ehrlich (2022). **Brain Structure in Acutely Underweight and Partially Weight-Restored Individuals with Anorexia Nervosa - A Coordinated Analysis by the ENIGMA Eating Disorders Working Group**, submitted to **Biological Psychiatry**, March 10, 2022.

1036. Junhao Wen<sup>1\*</sup>, Ilya M. Nasrallah<sup>1,2</sup>, Ahmed Abdulkadir<sup>1</sup>, Theodore D. Satterthwaite<sup>1,3,4</sup>, Guray Erus<sup>1</sup>, Timothy Robert-Fitzgerald<sup>5</sup>, Ashish Singh<sup>1</sup>, Aristeidis Sotiras<sup>6</sup>, Aleix Boquet-Pujadas<sup>7</sup>, Zhijian Yang<sup>1</sup>, Elizabeth Mamourian<sup>1</sup>, Jimit Doshi<sup>1</sup>, Yuhan Cui<sup>1</sup>, Dhivya Srinivasan<sup>1</sup>, Mark Bergman<sup>1</sup>, Jingxuan Bao<sup>8</sup>, Yogasudha Veturi<sup>9</sup>, Zhen Zhou<sup>1</sup>, Shu Yang<sup>8</sup>, Paola Dazzan<sup>10</sup>, Rene S. Kahn<sup>11</sup>, Hugo G. Schnack<sup>12</sup>, Marcus V. Zanetti<sup>13</sup>, Eva Meisenzahl<sup>14</sup>,

Geraldo F. Busatto<sup>13</sup>, Benedicto Crespo-Facorro<sup>15</sup>, Christos Pantelis<sup>16</sup>, Stephen J. Wood<sup>17</sup>, Chuanjun Zhuo<sup>18</sup>, Russell T. Shinohara<sup>1,5</sup>, Ruben C. Gur<sup>18</sup>, Raquel E. Gur<sup>18</sup>, Nikolaos Koutsouleris<sup>19</sup>, Daniel H. Wolf<sup>1,3,4</sup>, Andrew J. Saykin<sup>20</sup>, Marylyn D. Ritchie<sup>9</sup>, Li Shen<sup>8</sup>, Paul M. Thompson<sup>21</sup>, Olivier Colliot<sup>22</sup>, Katharina Wittfeld<sup>23</sup>, Hans J. Grabe<sup>24</sup>, Duygu Tosun<sup>25</sup>, Murat Bilgel<sup>26</sup>, Yang An<sup>26</sup>, Daniel S. Marcus<sup>27</sup>, Pamela LaMontagne<sup>27</sup>, Susan R. Heckbert<sup>28</sup>, Thomas R. Austin<sup>29</sup>, Lenore J. Launer<sup>30</sup>, Mark Espeland<sup>31</sup>, Colin L Masters<sup>32</sup>, Paul Maruff<sup>33</sup>, Jurgen Fripp<sup>34</sup>, Sterling C. Johnson<sup>35</sup>, John C. Morris<sup>36</sup>, Marilyn S. Albert<sup>37</sup>, R. Nick Bryan<sup>38</sup>, Susan M. Resnick<sup>26</sup>, Yong Fan<sup>1</sup>, Mohamad Habes<sup>39</sup>, David Wolk<sup>1,40</sup>, Haochang Shou<sup>1,5</sup>, and Christos Davatzikos<sup>1\*</sup>, for the iSTAGING, the BLSA, the BIOCARD, the PHENOM, the ADNI studies, and the AI4AD consortium (2022). **Mega-analysis of brain structural covariance, genetics, and clinical phenotypes, to be submitted to Nature, 2022.**

**1037.**Chloe X. Yap<sup>1,2,3\*</sup>, Gail A. Alvares<sup>4,3</sup>, Anjali K. Henders<sup>2,3</sup>, Corey Giles<sup>5,6</sup>, Kevin Huynh<sup>5,6</sup>, Anh Nguyen<sup>5,6</sup>, Leanne Wallace<sup>2,3</sup>, Tiana McLaren<sup>2,3</sup>, Yuanhao Yang<sup>2,3</sup>, Leanna Hernandez<sup>7</sup>, Michael J. Gandal<sup>7,8,9,10</sup>, Narelle K. Hansell<sup>11</sup>, Dominique Cleary<sup>4,3</sup>, Rachel Grove<sup>12,13,3</sup>, Claire Hafekost<sup>4,3</sup>, Alexis Harun<sup>4,3</sup>, Helen Holdsworth<sup>1,14,3</sup>, Rachel Jellet<sup>15,3</sup>, Feroza Khan<sup>13,3</sup>, Lauren P. Lawson<sup>15,3</sup>, Jodie Leslie<sup>4,3</sup>, Mira Levis Frenk<sup>1,14,3</sup>, Anne Masi<sup>13,3</sup>, Nisha E. Mathew<sup>13,3</sup>, Melanie Muniandy<sup>15,3</sup>, Michaela Nothard<sup>1,10,3</sup>, Jessica L. Miller<sup>11</sup>, Lorelle Nunn<sup>2</sup>, Lachlan T. Strike<sup>11</sup>, Greig I. de Zubicaray<sup>16</sup>, Paul M. Thompson<sup>17</sup>, Katie L. McMahon<sup>18</sup>, Margaret J. Wright<sup>11,19</sup>, Peter M. Visscher<sup>2</sup>, Paul A. Dawson<sup>1,3</sup>, Cheryl Dissanayake<sup>15,3</sup>, Valsamma Eapen<sup>13,20,3</sup>, Helen S. Heussler<sup>14,21,3</sup>, Andrew J.O. Whitehouse<sup>4,3</sup>, Peter J. Meikle<sup>5,6,22</sup>, Naomi R. Wray<sup>2,7,3</sup>, Jacob Gratten<sup>1,2,3\*</sup> **(2022). Lipidomics captures genetic and environmental complexity in neurodevelopment and autism, and identifies convergence between sleep problems and poor diet, to be submitted, April 2022.**

**1038.**Jerod M. Rasmussen, Ph.D.<sup>1,2,†</sup>, Jetro J. Tuulari<sup>3,†</sup>, Saara Nolvi<sup>3</sup>, Paul M. Thompson<sup>4</sup>, Harri Maria Lavonius<sup>3</sup>, Merisaari<sup>3</sup>, Linnea Karlsson<sup>3</sup>, Sonja Entringer, Ph.D.<sup>1,2,5</sup>, Pathik D. Wadhwa, M.D.<sup>1,2,6,7,8</sup>, Hasse Karlsson<sup>3</sup>, Claudia Buss, Ph.D.<sup>1,2,5</sup> **(2022). Maternal Pre-pregnancy Body Mass Index is Associated with Newborn Offspring Hypothalamic Mean Diffusivity: A Prospective Dual-Cohort Study, to be submitted, April 2022.**

**1039.**Kopal, J.<sup>1,2</sup>, Kumar<sup>3</sup>, K., Saltoun, K.<sup>1,2</sup>, Moreau, C. A.<sup>4</sup>, Modenato, C.<sup>5</sup>, Martin-Brevet, S.<sup>5</sup>, Huguet, G.<sup>3</sup>, Schramm, C.<sup>3</sup>, Jean-Louis, M.<sup>3</sup>, Martin, C. O.<sup>3</sup>, Younis, N.<sup>3</sup>, Tamer, P.<sup>3</sup>, Douard, E.<sup>3</sup>, Thébault-Dagher, F.<sup>3</sup>, Côté, V.<sup>3</sup>, Charlebois, A. R.<sup>3</sup>, Deguire, F.<sup>3</sup>, Maillard, A. M.<sup>6</sup>, Rodriguez-Herreros, B.<sup>6</sup>, Pain, A.<sup>6</sup>, Richetin, S.<sup>6</sup>, 16p11.2 European Consortium, Simons Searchlight Consortium, Melie-Garcia, L.<sup>7</sup>, Kushan, L.<sup>8</sup>, Silva, A. I.<sup>9</sup>, van den Bree, M. B. M., Linden, D. E. J., Owen, M. J., Hall, J., Lippé, S.<sup>3</sup>, Draganski, B.<sup>5</sup>, Thompson, P. M.<sup>10</sup>, Bearden, C. E.<sup>8</sup>, Glahn, D. C.<sup>11</sup>, Jacquemont, S.<sup>3</sup>, Bzdok, D. (2022). **Rare CNVs and phenome-wide profiling: a tale of divergence and convergence, to be submitted, April 2022.**

- 1040.Emily L. Dennis et al. (2022). **Altered Lateralization of the Cingulum Bundle in Deployment-Related Traumatic Brain Injury: An ENIGMA Military-Relevant Brain Injury Study**, to be submitted, April 2022.
- 1041.David Romascano<sup>1</sup>, Julio E. Villalón-Reina<sup>2</sup>, Clara A. Moreau<sup>3</sup>, Borja Rodríguez-Herreros<sup>1</sup>, Joana M. Almeida Osório<sup>1</sup>, Sonia Richetin<sup>1</sup>, Vincent Junod<sup>1</sup>, Paola Yu<sup>1</sup>, Bratislav Mišić<sup>4,5</sup>, Paul M. Thompson<sup>2</sup>, Eleonora Fornari<sup>6</sup>, Marine Jequier Gygax<sup>1</sup>, Nadia Chabane<sup>1†</sup>, Sébastien Jacquemont<sup>3,7†</sup>, Anne M. Maillard (2022). **Pervasive alterations of intra-axonal volume and network organization in 16p11.2 deletion children**, to be submitted to *Brain*, May 3 2022.
- 1042.Lachlan T. Strike<sup>1</sup>, Narelle K. Hansell<sup>1</sup>, Kai-Hsiang Chuang<sup>1,2</sup>, Jessica L. Miller<sup>1</sup>, Greig I. de Zubicaray<sup>3</sup>, Paul M. Thompson<sup>4</sup>, Katie L. McMahon<sup>5</sup>, Margaret J. Wright<sup>1,2</sup> (2022). *The Queensland Twin Adolescent Brain Project: A longitudinal study of adolescent brain development*, to be submitted to **Scientific Data**, May 2022.
- 1043.Narelle K. Hansell<sup>1</sup>, Lachlan T. Strike<sup>1</sup>, Liza van Eijk<sup>2</sup>, Victoria O’Callaghan<sup>1</sup>, Nicholas G. Martin<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Paul M. Thompson<sup>5</sup>, Katie L. McMahon<sup>6</sup>, Margaret J. Wright<sup>1,7</sup> (2022). **Genetic specificity of hippocampal subfield volumes, relative to hippocampal formation, identified in 2,148 young adult twins and siblings**, to be submitted to **Twin Research & Human Genetics**, May 2022.
- 1044.Chenzhong Yin<sup>1+</sup>, Phoebe Imms<sup>2+</sup>, Mingxi Cheng<sup>1+</sup>, Anar Amgalan<sup>2+</sup>, Nahian F. Chowdhury<sup>2+</sup>, Roy J. Massett<sup>2</sup>, Alexander S. Maher<sup>2</sup>, Nikhil N. Chaudhari<sup>2</sup>, Xinghe Chen<sup>1</sup>, **Paul M. Thompson**, Paul Bogdan<sup>1†\*</sup>, and Andrei Irimia<sup>2,3†\*</sup>, and for the Alzheimer’s Disease Neuroimaging Initiative\*\* (2022). Interpretable deep learning of brain age captures domain-specific cognitive impairment, to be submitted, May 2022.
- 1045.Peristera Paschou<sup>1</sup>, Yin Jin<sup>1</sup>, Kirsten Müller-Vahl<sup>2</sup>, Harald Möller<sup>3</sup>, Renata Rizzo<sup>4</sup>, Pieter Hoekstra<sup>5</sup>, Veit Roessner<sup>6</sup>, Nanette Mol Debes<sup>7</sup>, Yulia Worbe<sup>8</sup>, Andreas Hartmann<sup>8</sup>, Pablo Mir<sup>9</sup>, Danielle Cath<sup>10</sup>, Irene Neuner<sup>11</sup>, Chencheng Zhang<sup>12</sup>, Colleen A. Hanlon<sup>13</sup>, Katarzyna Lewandowska<sup>14</sup>, Alexander Muenchau<sup>15</sup>, Richard Musil<sup>16</sup>, Tim Silk<sup>17</sup>, Julius Verrel<sup>15</sup>, Emily Bihun<sup>18</sup>, Valerie Brandt<sup>19</sup>, Andrea Dietrich<sup>5</sup>, Natalie Forde<sup>20</sup>, Christos Ganos<sup>21</sup>, Deanna J. Greene<sup>19</sup>, Michel Grothe<sup>9</sup>, Tamara Hershey<sup>19</sup>, Piotr Janik<sup>14</sup>, Jon Koller<sup>19</sup>, Juan Francisco Martin<sup>9</sup>, Stefano Palmucci<sup>4</sup>, Joel Perlmutter<sup>19</sup>, Adriana Prato<sup>4</sup>, Shukti Ramkiran<sup>11</sup>, Natalia Szejko<sup>14</sup>, Zeynep Tumer<sup>7</sup>, Anne Uhlmann<sup>6</sup>, Tanja Veselinovic<sup>11</sup>, Tomasz Wolańczyk<sup>14</sup>, Chu Chunguang<sup>12</sup>, Jade-Jocelyne Zouki<sup>17</sup>, Pritesh Jain<sup>1</sup>, Apostolia Topaloudi<sup>1</sup>, Mary Kaka<sup>1</sup>, Sophia I. Thomopoulos<sup>23</sup>, Tonya White<sup>23</sup>, Dick Veltman<sup>10</sup>, Lianne Schmaal<sup>25</sup>, Dan Stein<sup>24</sup>, Jan Buitelaar<sup>20</sup>, Barbara Franke<sup>20</sup>, Odile van den Heuvel<sup>10</sup>, Neda Jahanshad<sup>22</sup>, Paul M. Thompson<sup>22</sup>, Kevin Black<sup>18,19</sup> on behalf of the ENIGMA-TS Working Group (2022). **ENIGMA-TS: A worldwide platform for collaboration on the study of Tourette Syndrome genetics and neuroimaging**, to be submitted to the Frontiers Research Topic [Recent Advances in Understanding Tourette Syndrome, Tic Disorders and Functional Tics](#), June 2022.
- 1046.Christian Gaser, Robert Dahnke<sup>a</sup>, Paul M Thompson<sup>b</sup>, Florian Kurth<sup>c+</sup>, Eileen Luders<sup>b,c,d+</sup>, Alzheimer’s Disease Neuroimaging Initiative (2022). **CAT – A Computational Anatomy Toolbox for the Analysis of Structural MRI Data**, to be submitted to **Nature Methods**, June 2022.

1047. Narelle K. Hansell<sup>1</sup>, Lachlan T. Strike<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Paul M. Thompson<sup>3</sup>, Katie L. McMahon<sup>4</sup>, Margaret J. Wright (2022). **Persistence of anxiety/depression symptoms in early adolescence: A prospective study of daily life stress, rumination, and daytime sleepiness in a genetically informative cohort, to be submitted to Twin Research and Human Genetics, June 2022.**
1048. Kevin Hilbert, Ole Boeken, Till Langhammer, Nynke A. Groenewold, Janna Marie Bas-Hoogendam, Moji Aghajani, Anita Harrewijn, Andre Zugman, [*co-authors from individual sites*], Dick J. Veltman, Anderson M. Winkler, Daniel S. Pine, Neda Jahanshad, Paul M. Thompson, Dan J. Stein, Nic J.A. van der Wee, Ulrike Lueken (2022). **Cortical and subcortical brain abnormalities in specific phobia and in phobia subtypes: a mega-analysis from the ENIGMA-Anxiety Working Group, submitted to Molecular Psychiatry, July 5, 2022.**
1049. Ann M. Alex<sup>1</sup>, Claudia Buss<sup>2,3,4</sup>, Elysia Poggi Davis<sup>5,6</sup>, Gustavo de los Campos<sup>1,7,8</sup>, Sean C.L. Deoni<sup>9,10,11</sup>, Kirsten A. Donald<sup>12,13</sup>, Damien A. Fair<sup>14</sup>, Nadine Gaab<sup>15</sup>, Wei Gao<sup>16,17</sup>, John H. Gilmore<sup>18</sup>, Jessica B. Girault<sup>18,19</sup>, Karen Grewen<sup>18</sup>, Nynke A. Groenewold<sup>13,20,21</sup>, Benjamin L. Hankin<sup>22</sup>, Jonathan Ipser<sup>13</sup>, Shreya Kapoor<sup>23</sup>, Pilyoung Kim<sup>24</sup>, Weili Lin<sup>25</sup>, Shan Luo<sup>26,27,28</sup>, Elizabeth S. Norton<sup>29,30</sup>, Thomas G. O'Connor<sup>31</sup>, Joseph Piven<sup>18,19</sup>, Anqi Qiu<sup>33,34,35,36,37</sup>, Jerod M. Rasmussen<sup>3,4</sup>, Michael A. Skeide<sup>23</sup>, Dan J. Stein<sup>13,38</sup>, Martin A. Styner<sup>18,39</sup>, Paul M. Thompson<sup>40</sup>, Laurie Wakschlag<sup>30</sup>, Rebecca Knickmeyer<sup>1,41</sup>, for the ENIGMA ORIGINS group (2022). Genetic Influences on the Developing Young Brain and Risk for Neuropsychiatric Disorders, submitted to **Biological Psychiatry**, July 1, 2022.
1050. Clara A Moreau; Annabelle Harvey; Kuldeep Kumar; Guillaume Huguet; Sebastian Urchs; Elise A. Douard; Laura M. Schultz; Hanad Sharmarke; Khadije Jizi; Charles-Olivier Martin; Nadine Younis; Petra Tamer; Thomas Rolland; Jean-Louis Martineau; Pierre Orban; Ana Isabel Silva; Jeremy Hall; Marianne B.M. van den Bree; Michael J. Owen; David E. J. Linden; Aurelie Labbe; Sarah Lippé; Carrie E. Bearden; Laura Almasy; David C. Glahn; Paul M. Thompson; Thomas Bourgeron; Pierre Bellec; Sebastien Jacquemont (2022). Genetic heterogeneity shapes brain connectivity in psychiatry, submitted to **Biological Psychiatry**, July 1, 2022.
1051. Clara A. Moreau<sup>1,2,3\*</sup>, Kuldeep Kumar<sup>2</sup>, Annabelle Harvey<sup>2,3</sup>, Guillaume Huguet<sup>2</sup>, Sebastian Urchs<sup>3,4</sup>, Laura M. Schultz<sup>5</sup>, Hanad Sharmarke<sup>3</sup>, Khadije Jizi<sup>2</sup>, Charles-Olivier Martin<sup>2</sup>, Nadine Younis<sup>2</sup>, Petra Tamer<sup>2</sup>, Jean-Louis Martineau<sup>2</sup>, Pierre Orban<sup>6,7</sup>, Ana Isabel Silva<sup>8,9,10</sup>, Jeremy Hall<sup>8,9</sup>, Marianne B.M. van den Bree<sup>8,9</sup>, Michael J. Owen<sup>8,9</sup>, David E. J. Linden<sup>9,10</sup>, Sarah Lippé<sup>2</sup>, Carrie E. Bearden<sup>12</sup>, Laura Almasy<sup>5,13,14</sup>, David C. Glahn<sup>16,17</sup>, Paul M. Thompson<sup>17</sup>, Thomas Bourgeron<sup>1</sup>, Pierre Bellec<sup>3†</sup>, and Sebastien Jacquemont<sup>2\*†</sup> (2022). **Brain functional connectivity mirrors genetic pleiotropy in psychiatric conditions**, *Brain*, in press, Aug. 2022.
1052. Yann Cobigo, Kyan Younes, Amy Wolf, Sterling Johnson, Beth Mormino, **Paul M. Thompson**, Howie Rosen (2022). MRI-Based Multi-Class Relevance Vector Machine Classification of Neurodegenerative Diseases, to be submitted to *NeuroImage*, July 2022.
1053. Naohiro Okada<sup>1,2</sup>, Masaki Fukunaga<sup>3</sup>, Kenichiro Miura<sup>4</sup>, Kiyotaka Nemoto<sup>5</sup>, Junya Matsumoto<sup>4</sup>, Naoki Hashimoto<sup>6</sup>, Masahiro Kiyota<sup>1</sup>, Kentaro Morita<sup>7</sup>, Daisuke Koshiyama<sup>1</sup>, Kazutaka Ohi<sup>8,9</sup>, Tsutomu Takahashi<sup>10,11</sup>, Michihiko Koeda<sup>12</sup>, Hidenaga Yamamori<sup>4,13,14</sup>, Michiko Fujimoto<sup>4,13</sup>, Yuka Yasuda<sup>4,15</sup>, Naomi Hasegawa<sup>4</sup>, Hisashi Narita<sup>6</sup>, Satoshi Yokoyama<sup>16</sup>, Ryo Mishima<sup>17</sup>, Takahiko Kawashima<sup>17</sup>, Yuko Kobayashi<sup>17</sup>, Daiki Sasabayashi<sup>10,11</sup>, Kenichiro Harada<sup>18</sup>, Maeri Yamamoto<sup>19</sup>, Yoji Hirano<sup>20</sup>, Takashi Itahashi<sup>21</sup>, Masahito Nakataki<sup>22</sup>, Ryu-ichiro Hashimoto<sup>21,23</sup>, Khin K. Tha<sup>24</sup>, Shinsuke Koike<sup>3,25,26,27</sup>, Toshio Matsubara<sup>18</sup>, Go Okada<sup>16</sup>, Theo GM van Erp<sup>28</sup>, Reiji Yoshimura<sup>29</sup>, Osamu Abe<sup>30</sup>, Toshiaki Onitsuka<sup>20</sup>, Yoshiyuki Watanabe<sup>31</sup>, Koji Matsuo<sup>32</sup>, Hidenori Yamasue<sup>33</sup>, Yasumasa

- Okamoto<sup>16</sup>, Michio Suzuki<sup>10,11</sup>, Jessica A Turner<sup>34</sup>, Paul M Thompson<sup>35</sup>, Norio Ozaki<sup>19</sup>, Kiyoto Kasai<sup>1,2,25,26</sup>, Ryota Hashimoto<sup>4,13</sup>, COCORO (2022). **Subcortical volumetric alterations in four major psychiatric disorders: A mega-analysis study of 5604 subjects and a volumetric data-driven approach for classification**, to be submitted, August 2022.
1054. Yilamujiang Abuduaini<sup>1</sup>, ..., Paul M. Thompson, ..., Xiang-Zhen Kong<sup>1</sup> (2022). Deciphering structural asymmetry of the habenula in the human brain, to be submitted, August 2022.
1055. Peter Kochunov PhD\*<sup>1</sup>, Yizhou Ma PhD\*<sup>1</sup>, Kathryn S. Hatch BS<sup>1</sup>, Ashley Acheson, Neda Jahanshad PhD<sup>2</sup>, Paul M. Thompson PhD<sup>2</sup>, Bhim M. Adhikari PhD<sup>1</sup>, Heather Bruce MD<sup>1</sup>, Andrew Van der vaart MD, PhD<sup>1</sup>, Joshua Chiappelli, MD<sup>1</sup>, Xiaoming Du, PhD<sup>1</sup>, Aris Sotiras PhD<sup>3</sup>, Mark D. Kvarata MD, PhD<sup>1</sup>, Tianzhou Ma, PhD<sup>3</sup>, Shuo Chen, PhD<sup>1</sup>, L. Elliot Hong MD<sup>1</sup> (2022). Ancestral, Pregnancy, and Negative Early Life Risks Shape Children's Brain Dis/Similarity to Schizophrenia, to be submitted to **Am J Psychiatry**, August 2022.
1056. Eun-jin Cheon\*, MD, PhD<sup>1,2</sup>, Alie G Male\*, PhD<sup>1</sup>, Bingchen Gao, MS<sup>1</sup>, Bhim M. Adhikari, PhD<sup>3</sup>, Jesse T. Edmund, PhD<sup>4</sup>, Stephanie Hare<sup>3</sup>, Aysenil Belger, PhD<sup>5</sup>, Steven G. Potkin, MD<sup>6</sup>, Juan R. Bustillo, MD<sup>7</sup>, Daniel H. Mathalon, PhD, MD<sup>8,9</sup>, Judith M. Ford, PhD<sup>8,9</sup>, Kelvin O. Lim, MD<sup>10</sup>, Bryon Mueller, PhD<sup>10</sup>, Adrian Preda, MD<sup>6</sup>, Daniel O'Leary, PhD<sup>11</sup>, Gregory P. Strauss, PhD<sup>12</sup>, Anthony O. Ahmed, PhD<sup>13</sup>, Paul M. Thompson, PhD<sup>14</sup>, Neda Jahanshad, PhD<sup>14</sup>, Peter Kochunov<sup>3</sup>, Vince D. Calhoun, PhD<sup>4</sup>, Jessica A. Turner, PhD<sup>15</sup>, Theo G. M. van Erp, PhD<sup>1,16</sup> (2022). **Amplitude of Low Frequency Fluctuations is associated with Negative Symptom Domains in Schizophrenia**, to be submitted, Aug. 2022.
1057. Bogyom Kim<sup>1\*</sup>, Kakyong Kim<sup>2\*</sup>, Sooyoung Kim<sup>2</sup>, Akiko Nakagawa<sup>3</sup>, Alan Anticevic<sup>4</sup>, Anri Watanabe<sup>5</sup>, Anthony James<sup>6</sup>, Brian P. Brennan<sup>7</sup>, Carles Soriano-Mas<sup>8</sup>, Chaim Huyser<sup>9</sup>, Chris Perriello<sup>7</sup>, Chris Vriend<sup>4,10</sup>, Christian Kaufmann<sup>11</sup>, Christine Lochner<sup>12</sup>, Christopher Pittenger<sup>4</sup>, Daan van Rooij<sup>13</sup>, Daniela Rodriguez Manrique<sup>15</sup>, Daniela Vecchio<sup>16</sup>, Eiji Shimizu<sup>3</sup>, Emily R. Stern<sup>17,18</sup>, Evelyn Stewart<sup>19</sup>, Fern Fayer<sup>19</sup>, Francesco Benedetti<sup>20</sup>, Ganesan Venkatasubramanian<sup>21</sup>, Gerd Kvale<sup>22,23</sup>, Gianfranco Spalletta<sup>16,24</sup>, Goi Khia Eng<sup>17</sup>, H. Martine Fontaine<sup>26</sup>, Ignacio Martínez-Zalacáin<sup>27,28,29</sup>, Irene Bolletini<sup>20</sup>, Jan K. Buitelaar<sup>30,31</sup>, Janardhanan C. Narayanaswamy<sup>21</sup>, Jan-Carl Beucke<sup>11,32</sup>, Je-Yeon Yun<sup>33</sup>, Jian Xu<sup>34</sup>, Jin Lu<sup>35</sup>, Jose M Menchón<sup>27,28,29</sup>, JP Fouché<sup>36</sup>, Jun Soo Kwon<sup>2,37</sup>, Junhee Lee<sup>37</sup>, Kathrin Koch<sup>38,39</sup>, Kristen Hagen<sup>22</sup>, L.W. Wolters<sup>40</sup>, Luisa Lazaro<sup>41,42,43</sup>, Marcelo C. Batistuzzo<sup>44</sup>, Marcelo Q. Hoexter<sup>44</sup>, Maria Picó-Pérez<sup>45</sup>, Martine Fontaine<sup>25</sup>, Minah Kim<sup>37</sup>, Mojtaba Zarei<sup>46</sup>, Nerisa Banaj<sup>47</sup>, Norbert Kathmann<sup>11</sup>, Nuno Sousa<sup>5</sup>, Núria Bargallo<sup>42</sup>, Patricia Gruner<sup>4</sup>, Paul Arnold<sup>49,50</sup>, Pedro Morgado<sup>45,52</sup>, Pedro Silva Moreira<sup>45</sup>, Philip Szeszko<sup>53,54</sup>, Pino Alonso<sup>27,28,29</sup>, Qing Zhao<sup>51</sup>, Rachael Grazioplene<sup>4</sup>, Rosa Calvo<sup>41,42,43</sup>, Sara Dallspezia<sup>20</sup>, Silvia Brem<sup>55,56</sup>, Sónia Ferreira<sup>45</sup>, Srinivas Balachander<sup>21</sup>, Stephanie Ameis<sup>57,58</sup>, Susanne Walitza<sup>55</sup>, Takashi Nakamae<sup>5</sup>, Venkataram Shivakumar<sup>59</sup>, Y.C. Janardhan Reddy<sup>21</sup>, Yoshinari Abe<sup>5</sup>, Yoshitada Masuda<sup>60</sup>, Yoshiyuki Hirano<sup>3</sup>, Yuki Sakai<sup>5</sup>, Yuqi Cheng<sup>35</sup>, Zhen Wang<sup>61</sup>, Zonglin Shen<sup>35</sup>†, ENIGMA-Working Group, Paul M. Thompson<sup>51</sup>, Willem B Bruin<sup>10</sup>, Guido A van Wingen<sup>10</sup>, Federica Piras<sup>16</sup>, Fabrizio Piras<sup>16</sup>, Dan J. Stein<sup>14</sup>, Odile A. van den Heuvel<sup>10</sup>, H. Blair Simpson<sup>25</sup>, Rachel Marsh<sup>25</sup>, Jiook Cha (2022). **White matter diffusion estimates are predictive of obsessive-compulsive disorder across 1653 individuals: DTI findings from the ENIGMA OCD Working Group**, to be submitted, Sept. 2022.
1058. Willem B. Bruin<sup>1,2</sup>, M.Sc., Yoshinari Abe<sup>3</sup>, M.D., Ph.D., Pino Alonso<sup>4,5,6,7</sup>, M.D., Ph.D., Alan Anticevic<sup>8</sup>, Ph.D., Srinivas Balachander<sup>9</sup>, M.D., Nuria Bargallo<sup>10,11,12</sup>, M.D., Ph.D., Marcelo C. Batistuzzo<sup>13,14</sup>, Ph.D., Francesco Benedetti<sup>15,16</sup>, M.D., Sara Bertolin Triquell<sup>17</sup>, M.D., Silvia Brem<sup>18,19</sup>, Ph.D., Federico

Calesella<sup>16,15</sup>, M.Sc., Beatriz Couto<sup>20,21,22</sup>, M.D., Damiaan A.J.P. Denys<sup>1,2</sup>, M.D., Ph.D., Marco A.N. Echevarria<sup>13</sup>, M.D., Goi Khia Eng<sup>23,24</sup>, Ph.D., Sónia Ferreira<sup>20,21,22</sup>, Ph.D., Jamie D. Feusner<sup>25,26,27</sup>, M.D., Rachael G. Grazioplene<sup>8</sup>, Ph.D., Patricia Gruner<sup>8</sup>, Ph.D., Joyce Y. Guo<sup>28</sup>, Ph.D., Kristen Hagen<sup>29,30,31</sup>, Ph.D., Bjarne Hansen<sup>30,32</sup>, Ph.D., Yoshiyuki Hirano<sup>33</sup>, Ph.D., Marcelo Q. Hoexter<sup>13</sup>, M.D., Ph.D., Fern Jaspers-Fayer<sup>34</sup>, Ph.D., Selina Kasprzak<sup>35,36</sup>, M.Sc., Minah Kim<sup>37,38</sup>, M.D., Ph.D., Kathrin Koch<sup>39</sup>, Ph.D., Yoo Bin Kwak<sup>40</sup>, Ph.D., Jun Soo Kwon<sup>38,37,40</sup>, M.D., Ph.D., Luisa Lazaro<sup>41,11,12,42</sup>, M.D., Ph.D., Chiang-Shan R. Li<sup>8</sup>, M.D., Ph.D., Christine Lochner<sup>43</sup>, Ph.D., Rachel Marsh<sup>44</sup>, Ph.D., Ignacio Martínez-Zalacáin<sup>17,45</sup>, M.Sc., Jose M Menchon<sup>17,45,12</sup>, M.D., Ph.D., Pedro S. Moreira<sup>20,21,46</sup>, Ph.D., Pedro Morgado<sup>20,21,22</sup>, M.D., Ph.D., Akiko Nakagawa<sup>33</sup>, M.D., Ph.D., Tomohiro Nakao<sup>47</sup>, M.D., Ph.D., Janardhanan C. Narayanaswamy<sup>48,49</sup>, M.D., Ph.D., Erika L. Nurmi<sup>50</sup>, M.D., Ph.D., Jose C. Pariente Zorrilla<sup>11</sup>, M.Sc., John Piacentini<sup>51</sup>, Ph.D., Maria Picó-Pérez<sup>20,21,52</sup>, Ph.D., Federica Piras<sup>53</sup>, Ph.D., Fabrizio Piras<sup>53</sup>, Ph.D., Christopher Pittenger<sup>8</sup>, M.D., Ph.D., Janardhan Y.C. Reddy<sup>9</sup>, M.D., Daniela Rodriguez-Manrique<sup>54,55,56</sup>, M.Sc., Yuki Sakai<sup>3,57</sup>, M.D., Ph.D., Eiji Shimizu<sup>33,58,59</sup>, M.D., Ph.D., Venkataram Shivakumar<sup>60</sup>, Ph.D., Blair H. Simpson<sup>44,19</sup>, M.D., Ph.D., Carles Soriano-Mas<sup>17,12,61</sup>, Ph.D., Nuno Sousa<sup>21,22</sup>, M.D., Ph.D., Gianfranco Spalletta<sup>53,62</sup>, M.D., Ph.D., Emily R. Stern<sup>23,24</sup>, Ph.D., S. Evelyn Stewart<sup>34,63,64</sup>, M.D., Philip R. Szeszko<sup>65,66</sup>, Ph.D., Jinsong Tang<sup>67</sup>, M.D., Ph.D., Anders L. Thorsen<sup>30,32</sup>, Ph.D., Yoshida Tokiko<sup>33</sup>, Ph.D., Hirofumi Tomiyama<sup>47</sup>, M.D., Ph.D., Benedetta Vai<sup>16</sup>, Ph.D., Ilya M. Veer<sup>68</sup>, Ph.D., Ganesan Venkatasubramanian<sup>9</sup>, M.D., Ph.D., Nora C. Vetter<sup>69</sup>, Ph.D., Chris Vriend<sup>35,36,70,71</sup>, Ph.D., Susanne Walitza<sup>18</sup>, M.Sc., M.D., Lea Waller<sup>72</sup>, M.Sc., Zhen Wang<sup>73</sup>, M.D., Ph.D., Anri Watanabe<sup>3</sup>, M.D., Ph.D., Nicole Wolff<sup>69</sup>, Ph.D., Je-Yeon Yun<sup>38,74</sup>, M.D., Ph.D., Qing Zhao<sup>73</sup>, M.D., Wieke A. van Leeuwen<sup>1,2</sup>, M.D., Hein J.F. van Marle<sup>35,75</sup>, M.D., Ph.D., Laurens A. van de Mortel<sup>1,2</sup>, M.Sc., Anouk van der Straten<sup>1,2</sup>, M.D., Ysbrand D. van der Werf<sup>36,70,71</sup>, Ph.D., **ENIGMA-OCD Working-Group\***, Paul M. Thompson, M.D., Ph.D., Dan J. Stein<sup>76</sup>, M.D., Ph.D., Odile A. van den Heuvel<sup>35,36,70</sup>, M.D., Ph.D., Guido A. van Wingen<sup>1,2</sup>, Ph.D. (2022). **The functional connectome in obsessive-compulsive disorder: resting-state mega-analysis and machine learning classification for the ENIGMA-OCD consortium, to be submitted, Sept. 2022.**

1059.Kathryn S. Hatch BS<sup>1</sup>, Yizhou Ma PhD<sup>1</sup>, Alessandro Russo BS<sup>1</sup>, Si Gao MS<sup>1</sup>, Neda Jahanshad PhD<sup>2</sup>, Paul M. Thompson PhD<sup>2</sup>, Bhim M. Adhikari PhD<sup>1</sup>, Heather Bruce MD<sup>1</sup>, Andrew Van der vaart MD, PhD<sup>1</sup>, Aris Sotiras PhD<sup>3</sup>, Mark D. Kvarita MD, PhD<sup>1</sup>, Thomas E. Nichols PhD<sup>4</sup>, Lianne Schmaal PhD<sup>4</sup>, L. Elliot Hong MD<sup>1</sup>, Peter Kochunov PhD<sup>1</sup> (2022). **Brain Deficit Patterns of Metabolic Illnesses Overlap with those for Major Depressive Disorder: A New Metric of Brain Metabolic Disease, to be submitted, Sept. 2022.**

1060.Hong Xie\*, Chiahao Shih\*, Erin M. O’Leary\*, Andrew S. Cotton, John T. Wall, Tian Chen, Kevin S. Xu, Rong Liu, Chadi G. Abdallah, Elpiniki Andrew, C. Lexi Baird, Lee A. Baugh, Jessica Bomyea, Steven E. Bruce, Richard Bryant, Kyle Choi, Judith K. Daniels, Nicholas D. Davenport, Richard J. Davidson, Michael D. De Bellis, Emily L. Dennis, Terri deRoos-Cassini, Seth G. Disner, Negar Fani, Kelene A. Fercho, Jacklynn Fitzgerald, Gina L. Forster, Jessie L. Frijling, Elbert Geuze, Hassaan Gomaa, Evan M. Gordon, Dan Grupe, Ilan Harpaz-Rotem, Courtney C. Haswell, Julia I. Herzog, David Hofmann, Michael Hollifield, Bobak Hosseini, Anna R. Hudson, Jonathan Ipser, Neda Jahanshad, Tanja Jovanovic, Milissa L. Kaufman, Anthony P. King, Saskia B.J. Koch, Inga K. Koerte, Sheri-Michelle Koopowitz, Mayuresh S. Korgaonkar, John H. Krystal, Christine Larson, Lauren A.M. Lebois, Ifat Levy, Gen Li, Mark W. Logue, Vincent A. Magnotta, Antje Manthey, Geoffrey May, Katie A.



McLaughlin, Sven C. Mueller, Laura Nawijn, Steven M. Nelson, Yuval Neria, Jack B. Nitschke, Miranda Olf, Elizabeth A. Olson, Matthew Peverill, K. Luan Phan, Faisal M. Rashid, Kerry Ressler, Isabelle M. Rosso, Lauren E. Salminen, Kelly Sambrook, Freda Scheffler, Christian Schmahl, Martha E. Shenton, Anika Sierk, Jeffrey S. Simons, Raluca M. Simons, Scott R. Sponheim, Dan J. Stein, Murray B. Stein, Jennifer S. Stevens, Thomas Straube, Benjamin Suarez-Jimenez, Marijo B. Tamburrino, Sophia I. Thomopoulos, Nic J.A. van der Wee, Steven J.A. van der Werff, Theo G.M. van Erp, Sanne J.H. van Rooij, Mirjam van Zuiden, Tim Varkevisser, Dick J. Veltman, Robert R.J.M. Vermeiren, Henrik Walter, Li Wang, Xi Zhu, Ye Zhu, Paul M. Thompson, Xin Wang<sup>#</sup>, Rajendra A. Morey<sup>#</sup>, Israel Liberzon<sup>#</sup> (2022). A mega-analysis of vertex and gyral cortical thickness differences in adults with and without PTSD, to be submitted to **Molecular Psychiatry**, Sept. 2022.

### **IPMI, MICCAI, ICCV, and ISBI Peer-Reviewed Conference Papers 2005-2022:**

1. Leow AD, Huang SC, Geng A, Becker JT, Davis SW, Toga AW, **Thompson PM** (2005). *Inverse Consistent Mapping in 3D Deformable Image Registration: Its Construction and Statistical Properties*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005.
2. Fillard P, Arsigny V, Pennec X, **Thompson PM**, Ayache N (2005). *Extrapolation of Sparse Tensor Fields: Application to the Modeling of Brain Variability*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005, Volume 3565/2005, 644-652.
3. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2005). *A Framework for Registration, Statistical Characterization and Classification of Cortically Constrained Functional Data*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005, Volume 3565/2005, pp. 186-196.
4. Wang YL, Chiang MC, **Thompson PM** (2005). *Automated Surface Matching using Mutual Information Applied to Riemann Surface Structures*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 666-674 [only 37.8% of papers accepted].
5. Wang YL, Gu X, Chan T, Hayashi KM, **Thompson PM**, Yau ST (2005). *Brain Surface Conformal Parameterization using Riemann Surface Structure*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 657-665 [only 37.8% of papers accepted].
6. Wang YL, Lui LM, Chan TF, **Thompson PM** (2005). *Optimization of Brain Conformal Mapping using Landmarks*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 675-683 [only 37.8% of papers accepted].
7. Wang YL, Chiang MC, **Thompson PM** (2005). *Mutual Information-based 3D Surface Matching with Applications to Face Recognition and Brain Mapping*, International Conference on Computer Vision 2005, Beijing, China, Oct. 2005, pp. 527-534 [only 20% of papers accepted].
8. Wang YL, Gu X, Chan T, Hayashi KM, **Thompson PM**, Yau ST (2005). *Surface Parameterization using Riemann Surface Structure*, International Conference on Computer Vision 2005, Beijing, China, Oct. 2005, pp. 1061-1066 [only 20% of papers accepted].
9. Wang YL, Chiang MC, **Thompson PM** (2005). *3D Surface Matching with Mutual Information and Riemann*

- Surface Structures*, Computer Graphics and Imaging, pp. 94-99, IASTED/ACTA Press, 2005.
10. Wang YL, Lui LM, Chan TF, **Thompson PM** (2005). *Combination of Brain Conformal Mapping and Landmarks*, Computer Graphics and Imaging, pp. 70-75, IASTED/ACTA Press, 2005.
  11. Wang YL, Gu X, Chan T, Hayashi KM, **Thompson PM**, Yau ST (2005). *Brain Surface Conformal Parameterization*, Computer Graphics and Imaging, pp. 76-81, IASTED/ACTA Press, 2005.
  12. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Kuller LH, Lopez OL, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Mapping Ventricular Changes Related to Dementia and Mild Cognitive Impairment in a Large Community-Based Cohort*, 3rd IEEE International Symposium on Biomedical Imaging: Macro to Nano, 2006, April 2006, pp. 315 - 318.
  13. Tosun D, Reiss AL, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). *Use of 3-D Cortical Morphometry for Mapping Increased Cortical Gyrfication and Complexity in Williams Syndrome*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
  14. Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). *Fluid Registration of Medical Images using Jensen-Rényi Divergence Reveals 3D Profile of Brain Atrophy in HIV/AIDS*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
  15. Lui LM, Wang Y, Chan TF, **Thompson PM** (2006). *Automatic Landmark Tracking Applied to Optimize Brain Conformal Mapping*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
  16. Lepore N, Leow AD, **Thompson PM** (2006). *Landmark Matching on the Sphere Using Distance Functions*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
  17. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2006). *Hippocampal Surface Analysis Using Spherical Harmonic Function Applied to Surface Conformal Mapping*, International Conference on Pattern Recognition (ICPR), Hong Kong, China, pp. 964-967, IEEE Computer Society, 2006.

#### **MICCAI 2006 Conference Papers:**

18. Lepore N, Brun CA, Chiang MC, Chou YY, Dutton RA, Hayashi KM, Becker JT, Aizenstein HJ, Lopez OL, Toga AW, **Thompson PM** (2006). *Multivariate Statistics of the Jacobian Matrices in Tensor-Based Morphometry and their application to HIV/AIDS*, 9<sup>th</sup> IEEE Conference on Medical Image Computer and Computer Assisted Intervention, MICCAI (1), Lecture Notes in Computer Science, Vol. 4190, pp. 191-198, Springer, 2006; also accepted for platform talk, MICCAI2006 *Workshop on Mathematical Foundations of Computational Anatomy*.
19. Leow AD, Chiang MC, Becker JT, Davis SW, Toga AW, **Thompson PM** (2006). *Realizing Unbiased Deformation: A Theoretical Consideration*, 9<sup>th</sup> IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), MICCAI2006 *Workshop on Mathematical Foundations of Computational Anatomy*. Oct. 1-6 2006, Copenhagen, Denmark.
20. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). *A Landmark-Based Brain Conformal Parameterization with an Automatic Landmark Tracking Technique*, 9<sup>th</sup> IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 308-315.

21. Zheng S, Tu Z, Yuille AL, Reiss AL, Dutton RA, Lee AD, Galaburda A, **Thompson PM**, Dinov ID, Toga AW (2006). A Learning-Based Algorithm for Automated Extraction of the Cortical Sulci, 9<sup>th</sup> IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 695-703.
22. Wang YL, Gu XF, Chan TF, **Thompson PM**, Yau ST (2006). *Brain Surface Conformal Parameterization with Algebraic Functions*, 9<sup>th</sup> IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 946-954.
23. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). *Automatic Landmark Tracking and Its Application to the Optimization of Brain Conformal Mapping*, IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), New York, NY, June 2006, pp. 1784-1792, IEEE Computer Society, 2006.

#### **ISBI 2007 and CVPR 2007 Conference Papers:**

24. Chou YY, Leporé N, de Zubicaray GI, Rose SE, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2007). *Automatic 3D Mapping & Analysis of the Lateral Ventricles using Fluid Registration of Multiple Labeled Atlases*, Proc. 4th IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 2007 (ISBI 2007), pp. 1288-1291.
25. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2007). *Hippocampal Surface Discrimination via Invariant Descriptors of Spherical Conformal Maps*, ISBI 2007, pp. 1316-1319.
26. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *A Finite Element Method for Elastic Parameterization and Alignment of Cortical Surfaces using Sulcal Constraints*, ISBI 2007, accepted, Jan 17 2007.
27. Shi Y, Reiss AL, Lee AD, Dutton RA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Dinov ID, **Thompson PM**, Toga AW (2007). *Hamilton-Jacobi Skeletons on Cortical Surfaces with Applications in Characterizing the Gyrfication Pattern in Williams Syndrome*, ISBI 2007, accepted, Jan 17 2007.
28. Yanovsky I, Chiang MC, **Thompson PM**, Klunder AD, Becker JT, Davis SW, Toga AW, Leow AD (2007). *Quantifying Deformation Using Information Theory*, ISBI 2007.
29. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2007). *Brain Surface Conformal Parameterization with the Ricci Flow*, ISBI 2007.
30. Yanovsky I, **Thompson PM**, Osher S, Leow AD (2007). *Topology Preserving Log-Unbiased Nonlinear Image Registration: Theory and Implementation*, IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), 2007.

#### **IPMI 2007 and SPIE 2007 Conference Papers:**

31. Chiang MC, Klunder AD, McMahon K, de Zubicaray GI, Wright M, Toga AW, **Thompson PM** (2007). *Information-Theoretic Analysis of Brain White Matter Fiber Orientation Distribution Functions*, **Information Processing in Medical Imaging 2007**.
32. Alcantara DA, Carmichael OT, Delson E, Harcourt-Smith W, Sterner, Frost S, Dutton RA, **Thompson PM**, Aizenstein H, Lopez OL, Becker JT, Amenta N (2007). *Localized Components Analysis*, **Information Processing in Medical Imaging 2007**.
33. Shi Y, Tu Z, Reiss AL, Dutton RA, Lee AD, Galaburda A, Dinov ID, **Thompson PM**, Toga AW (2007). *Joint*

*Sulci Detection Via Belief Propagation*, **Information Processing in Medical Imaging**, 2007;20:98-109.

34. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Combining Surface and Volume Registration using Harmonic Maps*, **Information Processing in Medical Imaging 2007**.
35. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Simultaneous Surface and Volume Registration by Harmonic Mappings*, **Proc. SPIE 2007 Medical Imaging Conference**, San Diego, CA, USA, Feb. 17-22 2007.
36. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Registration of Cortical Surfaces using Sulcal Landmarks for Group Analysis of MEG Data*, **International Congress Series - Proc. Biomag 2006**.

#### **MICCAI 2007 Conference Papers:**

37. Lepore N, Brun CC, Pennec X, Chou YY, Lopez OL, Aizenstein HJ, Becker JT, Toga AW, **Thompson PM** (2007). *Mean Template for Tensor-Based Morphometry using Deformation Tensors*, **MICCAI 2007**, in press.
38. Brun CC, Lepore N, Pennec X, Chou YY, Lopez OL, Aizenstein HJ, Becker JT, Toga AW, **Thompson PM** (2007). *Comparison of Standard and Riemannian Elasticity for Tensor-Based Morphometry in HIV/AIDS*, **MICCAI 2007** Workshop on Image Registration.
39. [P. Fillard](#), [X. Pennec](#), **P.M. Thompson**, and [N. Ayache](#). **Evaluating Brain Anatomical Correlations via Canonical Correlation Analysis of Sulcal Lines**. In *Proc. of MICCAI'07 Workshop on Statistical Registration: Pair-wise and Group-wise Alignment and Atlas Formation*, Brisbane, Australia, 2007.

#### **FBIT 2007 and SPIE 2008 Conference Papers:**

40. Mani M, Chou YY, Lepore N, Klunder AD, de Leeuw J, McMahon K, de Zubicaray GI, Martin N, Wright M, Toga AW, **Thompson PM** (2007). *Mapping Genetic Influences on Brain Shape using Multi-Atlas Fluid Image Alignment*, **FBIT 2007**.
41. Lee AD, Lepore N, Lepore F, Alary F, Voss P, Toga AW, **Thompson PM** (2007). *Brain Differences Visualized in the Blind using Tensor Manifold Statistics and Diffusion Tensor Imaging*, **FBIT 2007**.
42. Lepore N, Chou YY, Lopez OL, Aizenstein HJ, Becker JT, Toga AW, **Thompson PM** (2008). *Fast 3D Fluid Registration of Brain Magnetic Resonance Images*, **SPIE 2008**.

#### **ISBI 2008 and CVPR 2008 Conference Papers:**

43. Aganj I, Sapiro G, Parikshak N, Madsen SK, **Thompson PM** (2008), *Segmentation-Free Measurement of Cortical Thickness from MRI*, **5th IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 2008. ISBI 2008, 14-17 May 2008**, pp. 1625-1628.
44. Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Hua X, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2008). *Automated 3D Mapping of Hippocampal Atrophy and its Clinical Correlates in 400 Subjects with Alzheimer's Disease, Mild Cognitive Impairment, and Elderly Controls*, **ISBI 2008**.
45. Haro G, Lenglet C, Sapiro G, **Thompson PM** (2008). *On the Non-Uniform Complexity of Brain Connectivity*, **ISBI 2008**.
46. Yanovsky I, Leow AD, Osher SJ, **Thompson PM** (2008). *Asymmetric and Symmetric Unbiased Image*

*Registration: Statistical Assessment of Performance*, submitted to the International Conference on **Computer Vision and Pattern Recognition**, Dec 8 2007.

47. Yanovsky I, **Thompson PM**, Osher SJ, Hua X, Shattuck DW, Toga AW, Leow AD (2008). *Validating Unbiased Registration on Longitudinal MRI Scans from the Alzheimer's Disease Neuroimaging Initiative (ADNI)*, **ISBI 2008**.
48. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Mapping Genetic Influences on Brain Fiber Architecture with High Angular Resolution Diffusion Imaging (HARDI)*, **ISBI 2008**.
49. Chou YY, Lepore N, Barysheva M, Chiang MC, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Quantitative Genetic Modeling of Lateral Ventricular Shape and Volume using Multi-Atlas Fluid Image Alignment in Twins*, **ISBI 2008**.
50. Lee AD, Lepore N, Barysheva M, Chou YY, Brun CA, Madsen SK, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Comparison of Fractional and Geodesic Anisotropy in Diffusion Tensor Images of 90 Monozygotic and Dizygotic Twins*, **ISBI 2008**.
51. Brun CC, Lepore N, Pennec X, Chou YY, Lee AD, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Barysheva M, Toga AW, **Thompson PM** (2008). *A New Registration Method Based on Log-Euclidean Tensor Metrics and its Application to Genetic Studies*, **ISBI 2008**.
52. Lin T, Lee EF, Dinov ID, Le Guyader C, **Thompson PM**, Vese L (2008). *A Landmark-Based Nonlinear Elasticity Model for Mouse Atlas Registration*, **ISBI 2008**.
53. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Brain Surface Conformal Parameterization with the Slit Map*, **ISBI 2008**.
54. Lepore N, Brun CC, Chou YY, Lee AD, Barysheva M, Pennec X, McMahon KL, Meredith M, de Zubicaray GI, Wright MJ, Toga AW, **Thompson PM** (2008). *Best Individual Template Selection from Deformation Tensor Minimization*, **ISBI 2008**.
55. Leow AD, Zhu S, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *The Tensor Distribution Function*, **ISBI 2008**, Biomedical Imaging: From Nano to Macro, 2008. ISBI 2008. 5th IEEE International Symposium on, Paris, France, 14-17 May 2008, page(s): 863-866.
56. Leow AD, Zhu S, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *Probabilistic multi-tensor estimation using the Tensor Distribution Function*, **Computer Vision and Pattern Recognition**, 2008. CVPR 2008. IEEE Conference on, Anchorage, AK, 23-28 June 2008. Digital Object Identifier: 10.1109/CVPR.2008.4587745

#### **MICCAI 2008 Conference Papers:**

57. Morra J, Tu Z, Apostolova LG, Green AE, Toga AW, **Thompson PM** (2008). *Automatic Subcortical Segmentation Using a Novel Contextual Model*, **MICCAI 2008**.
58. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Brain Fiber Architecture, Genetics, and Intelligence: A High Angular Resolution Diffusion Imaging (HARDI) Study*, **MICCAI 2008**. 11(Pt 1):1060-7.

59. Lui LM, Wang YL, **Thompson PM**, Chan TF (2008). *Optimized Conformal Parameterization of Cortical Surfaces Using Shape Based Matching of Landmark Curves*, **MICCAI 2008**, LNCS 5241, pp. 494-502 [peer-reviewed; 36% of papers accepted].
60. Lee AD, Leporé N, Barysheva M, Chou YY, Brun CC, Madsen SK, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Gene Effects Mapped Using Fractional and Geodesic Anisotropy in Diffusion Tensor Images of 92 Monozygotic and Dizygotic Twins*, **MICCAI 2008**.
61. Brun CC, Leporé N, Pennec X, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, Meredith M, McMahon K, Wright MJ, Toga AW, **Thompson PM** (2008). *A Tensor-Based Morphometry Study of Genetic Influences on Brain Structure using a New Fluid Registration Method*, **MICCAI 2008**. 11(Pt 2):914-21.
62. Shattuck DW, Chiang MC, Barysheva M, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Visualization Tools for High Angular Resolution Diffusion Imaging*, **MICCAI 2008**. 11(Pt 2):298-305.
63. Liu X, Mio W, Shi Y, Dinov ID, Liu X, Lepore N, Lepore F, Fortin M, Voss P, Lassonde M, **Thompson PM** (2008). *Models of normal variation and local differences in hippocampal anatomy*, **MICCAI 2008**. 11(Pt 2):407-15.
64. Chou YY, Leporé N, Avedissian C, Madsen SK, Hua X, Jack CR, Weiner MW, Toga AW, **Thompson PM** (2009). *Mapping Ventricular Expansion and its Clinical Correlates in Alzheimer's Disease and Mild Cognitive Impairment using Multi-Atlas Fluid Image Alignment*, **SPIE Medical Imaging 2009**, SPIE Paper Number 7259-111, Feb 9 2009 [peer-reviewed, 12 pages].
65. Lin T, Le Guyader C, Lee EF, Dinov ID, **Thompson PM**, Toga AW, Vese L (2009). *Gene to mouse atlas registration using Landmark based nonlinear Elasticity Smoother*, **SPIE Medical Imaging 2009**, SPIE Paper Number 7259-101, Feb 9 2009 [peer-reviewed, 12 pages].
66. Zhan L, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, **Thompson PM** (2008). *How Many Gradients are Sufficient in High-Angular Resolution Diffusion Imaging (HARDI)?* **MICCAI 2008**, MICCAI DTI Workshop, 2008.
67. Yanovsky I, Le Guyader C, Leow AD, **Thompson PM**, Vese L (2008). *Nonlinear Elastic Registration with Unbiased Regularization in Three Dimensions*, **MICCAI 2008**, MICCAI Computational Biomechanics (CBM) Workshop, MIDAS Online Open-Access Journal, vol. 220, pp. 56-67, <http://hdl.handle.net/10380/1360>, 2008 [peer-reviewed].
68. Leow AD, Zhu S, Zhan L, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *A Study of Information Gain in High Angular Resolution Diffusion Imaging (HARDI)*, **MICCAI 2008**, MICCAI DTI Workshop, 2008.
69. Gutman B, Wang YL, Morra JH, Tu Z, Jack CR, Weiner MW, Toga AW, **Thompson PM** (2008). *Disease Classification with Hippocampal Surface Invariants*, **MICCAI 2008**, Workshop on Hippocampal Mapping (Chair: Paul Yushkevich and Lei Wang), March 2008.
70. Gutman B, Wang YL, Chan TF, **Thompson PM**, Toga AW (2008). *Shape Registration with Spherical Cross Correlation*, 2nd MICCAI Workshop on Mathematical Foundations of Computational Anatomy, pp. 56-67 [peer-reviewed].

71. Leporé N, Brun CC, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, Meredith M, McMahon K, Wright MJ, Toga AW, **Thompson PM** (2008). *Multi-Atlas Tensor-Based Morphometry and its Application to a Genetic Study of 92 Twins*, **MICCAI 2008**, MICCAI Workshop on Mathematical Foundations of Computational Anatomy (MFCA), May 13 2008.
72. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Brain Mapping with the Ricci Flow Conformal Parameterization and Multivariate Statistics on Deformation Tensors*, **MICCAI 2008**, MICCAI Workshop on Mathematical Foundations of Computational Anatomy (MFCA), May 13 2008.
73. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Conformal Slit Mapping and Its Applications to Brain Surface Parameterization*, International Conference on Medical Image Computing and Computer Assisted Intervention - MICCAI 2008, LNCS 5241, pp. 585-593.
74. Morra JH, Tu Z, Toga AW, **Thompson PM** (2008). *Automatic Segmentation of Multiple Sclerosis Lesions using a Contextual Model*, Workshop Paper at **MICCAI 2008 Segmentation Competition** (peer-reviewed), Sept. 2008.

#### **Computer Vision and Pattern Recognition (CVPR) 2009 Conference Papers:**

75. Wang YL, **Thompson PM**, Yau ST (2009). *Shape Analysis with Conformal Invariants for Multiply Connected Domains and its Application to Analyzing Brain Morphology*, **Computer Vision and Pattern Recognition (CVPR) 2009, March 31 2009**.
76. Goh A, Lenglet C, **Thompson PM**, Vidal R (2009). *A Nonparametric Riemannian Framework for Processing High Angular Resolution Diffusion Images (HARDI)*, **Computer Vision and Pattern Recognition (CVPR) 2009**.

#### **Information Processing in Medical Imaging (IPMI2009) Conference Papers:**

77. Kim Y, **Thompson PM**, Toga AW, Vese L, Zhan L (2009). *HARDI denoising: variational regularization of spherical Apparent Diffusion Coefficient sADC*, **Information Processing in Medical Imaging, 2009;21:515-27**; Williamsburg, VA, 2009. Paper #87. [12 pages].
78. Shi Y, Morra JH, **Thompson PM**, Toga AW (2009). *Inverse-Consistent Surface Mapping With Laplace-Beltrami Eigen-Features*, **Information Processing in Medical Imaging**, Williamsburg, VA, 2009. Paper #142. [12 pages], in press.

#### **Imaging Science and Biomedical Imaging (ISBI2009) Conference Papers (9 papers):**

79. Leow AD, Zhan L, Zhu S, Hageman N, Chiang MC, Barysheva M, Toga AW, **Thompson PM** (2009). *White Matter Integrity Measured by Fractional Anisotropy Correlates Poorly with Actual Individual Fiber Anisotropy*, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
80. Wang Y, Zhang J, Chan TF, Toga AW, **Thompson PM** (2009). *Multivariate Tensor-Based Morphometry and its application to Ventricular Changes in HIV/AIDS*, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
81. Jahanshad N, Lee AD, Chou YY, Lepore N, Brun CC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, Sapiro G, Lenglet C, **Thompson PM** (2009). Reducing Structural Variation to determine the Genetics of white matter integrity across hemispheres – a DTI study of 100 Twins, **Imaging Science and Biomedical**

**Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].

82. Zhan L, Leow AD, Zhu S, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). Analyzing Multi-Fiber Reconstruction in High Angular Resolution Diffusion Imaging using the Tensor Distribution Function, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
83. Brun CC, Lepore N, Pennec X, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, McMahon KL, Wright MJ, Toga AW, **Thompson PM** (2009). A Lagrangian Formulation for Statistical Fluid Registration, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
84. Lee AD, Lepore N, Brun CC, Barysheva M, Chou YY, Chiang MC, Madsen SK, McMahon KL, de Zubicaray GI, Wright MJ, Toga AW, **Thompson PM** (2009). The Multivariate A/C/E Model and the Genetics of Fiber Architecture, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
85. Patel V, Shi Y, **Thompson PM**, Toga AW (2009). Mesh-Based Spherical Deconvolution for Physically Valid Fiber Orientation Reconstruction via Diffusion Weighted MRI, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009, 614-617 [4 pages].
86. Hageman N, Leow AD, Shattuck DW, Zhan L, **Thompson PM**, Zhu S, Toga AW (2009). Segmenting Crossing Fiber Geometries using Fluid Mechanics Tensor Distribution Function Tractography, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
87. Liu W, Shi Y, Morra JH, Liu X, **Thompson PM**, Mio W (2009). Mapping Hippocampal Atrophy with a Multi-Scale Model of Shape, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].

**Medical Image Computing and Computer Assisted Intervention (MICCAI2009) Conference Papers (9 papers; conference accepted 32% of all submitted papers):**

88. Morra JH, Tu Z, Toga AW, **Thompson PM** (2009). *Lossless Online Ensemble Learning (LOEL) and its Applications to Subcortical Segmentation*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
89. Lee AD, Lepore N, Brun CC, Chou YY, Barysheva M, Chiang MC, Madsen SK, de Zubicaray GI, McMahon KL, Wright MJ, Toga AW, **Thompson PM** (2009). Tensor-Based Analysis of Genetic Influences on Brain Integrity using DTI in 100 Twins, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
90. Chiang MC, Avedissian C, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Extending Genetic Linkage Analysis to Diffusion Tensor Images to Map Single Gene Effects on Brain Fiber Architecture*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
91. Jahanshad N, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). Genetics of Anisotropy Asymmetry: Registration and Sample Size Effects, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
92. Liu W, Shi Y, Morra JH, Wang, **Thompson PM**, Mio W (2009). *A Model of Spatiotemporal Changes in Hippocampal Shape in Alzheimer's Disease*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].



93. Goh A, Lenglet C, **Thompson PM**, Vidal R (2009). *Estimating Orientation Distributions with Probability Density Constraints and Spatial Regularity*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
94. Zhan L, Leow AD, Zhu S, Hageman N, Chiang MC, Barysheva M, Toga AW, **Thompson PM** (2009). *What does Fractional Anisotropy (FA) really measure?* **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
95. Wang YL, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Multivariate Tensor-based Brain Anatomical Surface Morphometry via Holomorphic One-Forms*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
96. Wang YL, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Teichmuller Shape Space Theory and Its Application to Brain Morphometry*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
97. Zhan L, Leow AD, Barysheva M, Feng A, Toga AW, Sapiro G, Harel N, Lim KO, Lenglet C, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Investigating the uncertainty in multi-fiber estimation in High Angular Resolution Diffusion Imaging*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, **Workshop on Probabilistic Modeling in Medical Image Analysis (PMMIA)**, ed. Kilian Pohl, Sarang Joshi, Sandy Wells, London, UK, Sept. 2009 [8 pages].
98. Iglesias EJ, **Thompson PM**, Tu Z (2009). *A spatially variant mixture model for diffusion weighted MRI: application to image denoising*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, **Workshop on Probabilistic Modeling in Medical Image Analysis (PMMIA)**, ed. Kilian Pohl, Sarang Joshi, Sandy Wells, London, UK, Sept. 2009 [8 pages].

#### **International Conference on Computer Vision (ICCV) 2009**

99. Wang YL, Dai W, Chou YY, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Studying Brain Morphometry using Teichmuller Space Theory*, **International Conference on Computer Vision (ICCV) 2009**, Kyoto, Japan, September 27 - October 4, 2009, paper ID #2174, [8 pages].
100. Wang YL, Chan TF, Toga AW, **Thompson PM** (2009). *Brain Anatomical Surface Multivariate Tensor-Based Morphometry with Holomorphic Differentials*, **International Conference on Computer Vision (ICCV) 2009**, Kyoto, Japan, September 27 - October 4, 2009, paper ID #1764, [8 pages].

#### **SPIE Medical Imaging 2009**

101. Lepore N\*, Joshi AA\*, Leahy RM, Brun C, Chou YY, Pennec X, Lee AD, Barysheva M, Zubicaray GI, Wright MJ, McMahon KL, Toga AW, **Thompson PM** (2009). *A New Combined Surface and Volume Registration*, **SPIE Medical Imaging 2009** [4 pages; peer-reviewed paper].
102. Lin T, Le Guyader C, Lee EF, Dinov ID, **Thompson PM**, Toga AW, Vese L (2009). *Gene to Mouse Atlas Registration using a Landmark-Based Nonlinear Elasticity Smoother*, **SPIE 2009** [16 pages; peer-reviewed paper].

#### **SPIE Medical Imaging 2010**

103. Chou YY, Lepore N, Brun C, Barysheva M, McMahon K, de Zubicaray GI, Wright M, Toga A, **Thompson PM**

(2010). Improving Fluid Registration through White Matter Segmentation in a Twin Study, **SPIE Medical Imaging**, 2010. [7 pages; peer-reviewed paper].

#### **International Symposium on Biomedical Imaging (ISBI 2010)**

104. Jahanshad N, Zhan L, Bernstein MA, Borowski B, Jack CR, Toga AW, **Thompson PM** (2010). *Diffusion Tensor Imaging in Seven Minutes: Determining Trade-Offs Between Spatial and Directional Resolution*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

105. Lee AD, Lepore N, de Leeuw J, Brun CC, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, **Thompson PM** (2010). *Multivariate Variance-Components Analysis in DTI*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

106. Patel V, Chiang MC, **Thompson PM**, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW (2010). *Scalar Connectivity Measures from Fast Marching Tractography Reveal Heritability of White Matter Architecture*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

107. Chou YY, Lepore N, Madsen SK, Saharan P, Hua X, Jack CR, Shaw LS, Trojanowski JQ, Weiner MW, Toga AW, **Thompson PM** (2010). *Ventricular Maps in 804 Subjects Correlate with Cognitive Decline, CSF Pathology, and Imminent Alzheimer's Disease*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

108. Joshi AA\*, Lepore N\*, Joshi S, Lee AD, Barysheva M, de Zubicaray GI, Wright MJ, McMahon KL, Toga AW, **Thompson PM** (2010). A Genetic Analysis of Cortical Thickness in 372 Twins, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper]. [\*equal contribution].

109. Xiuwen Liu, Yonggang Shi, Ying Wang, Paul Thompson, Washington Mio (2010). A Riemannian Model of Regional Degeneration of the Hippocampus in Alzheimer's Disease, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

110. Juan Eugenio Iglesias, Paul Thompson, Cheng-Yi Liu, Zhuowen Tu (2010). DISCRETIZING STOCHASTIC TRACTOGRAPHY: A FAST IMPLEMENTATION, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

111. Caroline C Brun, Natasha Lepore, Xavier Pennec, Yi-Yu Chou, Agatha D. Lee, Marina Barysheva, Greig I. de Zubicaray, Katie L. McMahon, Margaret J. Wright, Paul M. Thompson (2010). STATISTICALLY ASSISTED FLUID IMAGE REGISTRATION ALGORITHM – SAFIRA, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

#### **Computer Vision and Pattern Recognition (CVPR 2010)**

112. Lui LM, Wong TW, Zhang W, Gu X, **Thompson PM**, Chan TF, Yau ST (2009). *Compression of Surface Maps using Beltrami Coefficients*, **CVPR 2010**, June 13-18, 2010, San Francisco, CA [8 pages; peer-reviewed paper].

#### **MICCAI 2010**

113. Rachel Aine Yotter<sup>1</sup>, **Paul M. Thompson**<sup>2</sup>, Igor Nenadic<sup>1</sup>, and Christian Gaser<sup>1</sup> (2010). Estimating Local Complexity Maps using Spherical Harmonic Reconstructions, **MICCAI 2010**, Beijing, Med Image Comput Assist Interv. 2010;13(Pt 2):169-76.

- 114.Lok Ming Lui, Tsz Wai Wong, Tony Chan, **Paul M. Thompson**, Xianfeng Gu, Shing-Tung Yau (2010). Shape-based Diffeomorphic Registration on Hippocampal Surfaces Using Beltrami Holomorphic Flow, **MICCAI 2010**, Beijing, *Med Image Comput Comput Assist Interv.* 2010;13(Pt 2):323-30.
- 115.Iglesias JE, Liu CY, **Thompson PM**, Tu Z (2010). Agreement-Based Semi-Supervised Learning for Skull Stripping, **MICCAI 2010**, Beijing, *Med Image Comput Comput Assist Interv.* 2010;13(Pt 3):147-54.
- 116.Zhan L, Neda Jahanshad<sup>1</sup>, Alex D. Leow<sup>2,3</sup>, Matt A. Bernstein<sup>4</sup>, Bret J. Borowski<sup>4</sup>, Clifford R. Jack Jr.<sup>4</sup>, Arthur W. Toga<sup>1</sup>, **Thompson PM** (2010). *Trade-offs between angular and spatial resolution in high angular resolution diffusion imaging measurements*, submitted to the **MICCAI Workshop on Computational Diffusion MRI**, June 8 2010.
- 117.Zhan L<sup>1</sup>, Alex D. Leow<sup>2,3</sup>, Neda Jahanshad<sup>1</sup>, Agatha D. Lee<sup>1</sup>, Marina Barysheva<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, Paul M. Thompson<sup>1</sup> (2010). **Genetic Analysis of High Angular Resolution Diffusion Images (HARDI)**, **MICCAI Workshop on Computational Diffusion MRI**, Sept. 2010.
- 118.Lepore N, Brun CC, Descoteaux M, Lee AD, Barysheva M, Chou YY, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Gee JC, **Thompson PM** (2010). *A Multivariate Groupwise Genetic Analysis of White Matter Integrity using Orientation Distribution Functions*, **MICCAI Workshop on Computational Diffusion MRI**, Sept. 2010.
- 119.Liu X, Shi Y, Dinov ID, **Thompson PM**, Mio W (2010). A Model of Volumetric Shape for the Analysis of Longitudinal Alzheimer's Disease Data, **ECCV 2010**, [12 pages; peer-reviewed paper; only 27% acceptance rate].
- 120.Brun CC, Natasha Lepore, Xavier Pennec, Yi-Yu Chou, Agatha D. Lee, Marina Barysheva, Greig I. de Zubicaray, Katie L. McMahon, Margaret J. Wright, Paul M. Thompson (2010). A 3D Statistical Fluid Registration Algorithm, **MICCAI International Workshop on Machine Learning in Medical Imaging**, Beijing, China, Sept. 20 2010 [4 pages; peer-reviewed paper], August 2010.
- ISBI 2011 (11 papers accepted)**
- 121.Chiang MC, McMahon KL, de Zubicaray GI, Martin NG, Toga AW, Wright MJ, **Thompson PM** (2011). Hierarchical Clustering of the Genetic Connectivity Matrix Reveals the Network Topology of Gene Action on Brain Microstructure, **ISBI**, 2011.
- 122.Kohannim O, Hibar DP, Stein JL, Jahanshad N, Jack CR, Weiner MW, Toga AW, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). BOOSTING POWER TO DETECT GENETIC ASSOCIATIONS IN IMAGING USING MULTI-LOCUS, GENOME-WIDE SCANS AND RIDGE REGRESSION, **ISBI**, 2011.
- 123.Jahanshad N, Aganj I, Lenglet C, Jin Y, Joshi A, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW, Sapiro G, **Thompson PM** (2011). High angular resolution diffusion imaging (HARDI) tractography in 234 young adults reveals greater frontal lobe connectivity in women, **ISBI** 2011.
- 124.Hibar DP, Jason L. Stein<sup>1</sup>, Kohannim O, Jahanshad N, Jack CR, Weiner MW, Toga AW, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). Principal components regression: multivariate, gene-based tests in imaging genomics, **ISBI**, 2011.
- 125.Patel V, Shi Y, **Thompson PM**, Toga AW (2011). K-SVD for HARDI Denoising, **ISBI** 2011.

- 126.Zhan L, Leow AD, Aganj I, Lenglet C, Sapiro G, Yacoub E, Harel N, Toga AW, **Thompson PM** (2011). Differential Information Content in Staggered Multiple Shell HARDI Measured by the Tensor Distribution Function, **ISBI 2011**.
- 127.Villalon J, Joshi AA, Toga AW, **Thompson PM** (2011). Comparison of volumetric image registration algorithms for tensor-based morphometry in 340 adults, **ISBI 2011**.
- 128.Jin Y, Shi Y, Jahanshad N, Aganj I, Sapiro G, Toga AW, **Thompson2 PM** (2011). 3D Elastic Registration Improves HARDI-derived fiber alignment and automated tract clustering, **ISBI 2011**.
- 129.Prasad G, Jahanshad N, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2011). ATLAS-BASED FIBER CLUSTERING FOR MULTI-SUBJECT ANALYSIS OF HIGH ANGULAR RESOLUTION DIFFUSION IMAGING TRACTOGRAPHY, **ISBI 2011**.
- 130.Prasad G, Joshi AA, Shattuck DW, Terzopoulos D, **Thompson PM**, Toga AW (2011). Skull-Stripping with Deformable Organisms, **ISBI 2011**.
- 131.GadElkarim JJ, Zhan L, Yang SL, Zhang AF, Altshuler LL, Lamar M, Ajilore O, **Thompson PM**, Kumar A, Leow AD (2011). TDF-tract: Probabilistic tractography using the Tensor Distribution function, **ISBI 2011**.

**MICCAI 2011:**

- 132.Prasad G, Kohannim O, Joshi S, Jahanshad N, Villalon J, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2011). **White Matter Tract Analysis in 454 Adults using Maximum Density Paths**, MICCAI 2011 Workshop on Computational Diffusion MRI, Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 133.**Prasad G**, Joshi AA, Barysheva M, Feng A, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Toga AW, Terzopoulos D, **Thompson PM** (2011). **Brain Segmentation using Deformable Organisms and Error Learning**, MICCAI 2011 Workshop on Mathematical Foundations of Computational Anatomy, Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 134.Jin Y, Shi Y, Joshi S, Jahanshad N, Zhan L, Toga AW, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Thompson PM (2011). **Heritability of White Matter Fiber Tract Shapes: A HARDI Study of 198 Twins**, MICCAI 2011 Workshop on Multi-Modal Brain Image Analysis (MBIA), Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 135.Wang YL, Panigrahy A, Shi J, Ceschin R, Nelson MD, Gutman B, **Thompson PM**, Lepore N (2011). *Surface Multivariate Tensor-based Morphometry on Premature Neonates: A Pilot Study*, MICCAI IAHBBD Workshop, Image Analysis of Human Brain Development, Sep. 18-22 2011, Toronto, Canada, accepted, in press [full-length peer-reviewed paper; picked as oral talk].
- 136.Shi J, **Thompson PM**, <sup>[SEP]</sup>Wang YL (2011). Human Brain Mapping with Conformal Geometry and Multivariate Tensor-based Morphometry, MICCAI 2011 Workshop on Multi-Modal Brain Image Analysis (MBIA), Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 137.**Prasad G**, Toga AW, Shattuck DW, **Thompson PM**, Terzopoulos D (2011). Segmenting 3D MR Images of the Brain Using a PCA Atlas and Nonrigid Registration, submitted to **MICCAI 2011**, March 2011.
- 138.**Prasad G**, Kohannim O, Toga AW, Terzopoulos D, **Thompson PM** (2011). Multilinear Projection for MR Brain

Image Classification, submitted to **MICCAI 2011**, March 2011.

139. Jahanshad N, Aganj I, Lenglet C, Jin Y, Joshi AA, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW, Sapiro G, **Thompson PM** (2011). Genetics of Structural Brain Connectivity Matrices: A HARDI Study of 228 Healthy Young Adult Twins, submitted to **MICCAI 2011**, March 2011.

140. Gutman B, Wang YL, **Thompson PM** (2011). Shape Parameterization with Medial Curves, submitted to **MICCAI 2011**, March 2011.

**ISBI 2012 (14 of 17 papers accepted):**

141. Zhan L, Daniel Franc<sup>2,3</sup>, Vishal Patel<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Yan Jin<sup>1</sup>, Bryon A. Mueller<sup>3</sup>, Matt A. Bernstein<sup>4</sup>, Bret J. Borowski<sup>4</sup>, Clifford R. Jack Jr<sup>4</sup>, Arthur W. Toga<sup>1</sup>, Kelvin O. Lim, **Paul M. Thompson**<sup>1</sup> (2012). *How do Spatial and angular resolution affect brain connectivity maps from Diffusion MRI?* **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

142. Omid Kohannim<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Jason L. Stein<sup>1</sup>, Xue Hua<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, **Paul M. Thompson**<sup>1</sup>, and the Alzheimer's Disease Neuroimaging Initiative (2012). PREDICTING TEMPORAL LOBE VOLUME ON MRI FROM GENOTYPES USING L<sup>1</sup>-L<sup>2</sup> REGULARIZED REGRESSION, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

143. Ching CRK, Xue Hua<sup>1</sup>, Chadwick Ward<sup>3</sup>, Jeff Gunter<sup>3</sup>, Matt A. Bernstein<sup>3</sup>, Clifford R. Jack Jr<sup>3</sup>, Michael W. Weiner<sup>4,5,6</sup>, **Paul M. Thompson** (2011). *Phantom-based MRI Corrections and Power to Track Brain Change*, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

144. Jahanshad N, April Ryles<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Arthur W. Toga<sup>1</sup>, and **Paul M. Thompson** (2012). DISCOVERY OF GENES THAT AFFECT HUMAN BRAIN CONNECTIVITY: A GENOME-WIDE ANALYSIS OF THE CONNECTOME, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

145. Neda Jahanshad<sup>1</sup>, Omid Kohannim<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, and **Paul M. Thompson** (2012). **DIFFUSION IMAGING PROTOCOL EFFECTS ON GENETIC ASSOCIATIONS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012 [also picked for Oral Presentation].

146. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright<sup>2,4</sup>, Ian Hickie<sup>5</sup>, **Paul M. Thompson**<sup>1</sup> (2012). **LEFT VERSUS RIGHT HEMISPHERE DIFFERENCES IN BRAIN CONNECTIVITY: 4-TESLA HARDI TRACTOGRAPHY IN 567 TWINS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

147. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Kori Johnson<sup>2,3</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>4</sup>, Grant Montgomery<sup>3</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3,4</sup>, **Paul M. Thompson** (2012). **CHANGES IN ANATOMICAL BRAIN CONNECTIVITY BETWEEN AGES 12 AND 30: A HARDI STUDY OF 484 ADOLESCENTS AND ADULTS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012. [also picked for Oral Presentation].

148. A. Leow<sup>1,2</sup>, L. Zhan<sup>3</sup>, O. Ajilore<sup>1</sup>, J. GadElkarim<sup>1,3</sup>, A. Zhang<sup>1</sup>, D. Arienzo<sup>5</sup>, T. Moody<sup>5</sup>, J. Van Horn<sup>4</sup>, J. Feusner<sup>5</sup>, A. Kumar<sup>1</sup>, **P. Thompson**<sup>4</sup>, L. Altshuler (2012). **Measuring Inter-hemispheric Integration in Bipolar Affective Disorder Using Brain Network Analyses and HARDI**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

149. Boris A. Gutman<sup>1</sup>, Yalin Wang<sup>1,2,3</sup>, Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson**<sup>1</sup> (2012).

- Improved Shape Matching with Medial Curves and 1-D Group-Wise Registration, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
150. Cetingul HE, Bijan Afsari, Margaret Wright, Paul Thompson, Rene Vidal (2012). A RIEMANNIAN FRAMEWORK FOR PROCESSING ORIENTATION DISTRIBUTION FUNCTIONS ON THE JOINT ORIENTATION AND SHAPE SPACE, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
151. Joshi S, Joshi AA, Toga AW, de Zubicaray GI, McMahon KL, Wright MJ, Martin NG, **Thompson PM** (2012). Genetic influences on sulcal patterns of the brain, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
152. Talia Nir<sup>1\*</sup>, Neda Jahanshad<sup>1\*</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **SMALL WORLD NETWORK MEASURES PREDICT WHITE MATTER DEGENERATION IN PATIENTS WITH EARLY-STAGE MILD COGNITIVE IMPAIRMENT**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012 [also picked for Oral Presentation].
153. Tong M, Kim Y, Zhan L, Sapiro G, Lenglet C, Mueller B, **Thompson PM**, Vese L (2012). A VARIATIONAL MODEL FOR DENOISING HIGH ANGULAR RESOLUTION DIFFUSION IMAGING DATA, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
154. David Wheland, Anand Joshi, Katie McMahon, Narelle Hansell, Nicholas Martin, Margaret Wright, **Paul Thompson**, David Shattuck, Richard Leahy (2012). ROBUST IDENTIFICATION OF PARTIAL-CORRELATION BASED NETWORKS WITH APPLICATIONS TO CORTICAL THICKNESS DATA, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
155. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Jesse A. Brown<sup>2</sup>, Susan Y. Bookheimer<sup>3</sup>, Arthur W. Toga<sup>1</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie McMahon<sup>4</sup>, Nicholas Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, **Paul M. Thompson** (2012). **AUTOMATED LABELING OF WHITE MATTER TRACTS IN HARDI BY FUSION OF MULTIPLE TRACT ATLASES**, submitted to **ISBI 2012**, not accepted.
156. Zhan L, Jahanshad N, Lenglet C, Bryon A. Mueller<sup>4</sup>, Guillermo Sapiro<sup>3</sup>, Noam Harel<sup>2</sup>, Kelvin O. Lim<sup>4</sup>, **Paul M. Thompson<sup>1</sup>** (2011). Comparing 7-Tesla and 3-Tesla measures of brain diffusivity and connectivity: A Preliminary Study, submitted to **ISBI 2012**, not accepted.
157. Kohannim O, Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Xue Hua<sup>1</sup>, Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Greig I. de Zubicaray<sup>5</sup>, Katie L. McMahon<sup>6</sup>, Narelle K. Hansell<sup>7</sup>, Nicholas G. Martin<sup>7</sup>, Margaret J. Wright<sup>7</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (2012). Discovery and Replication of Gene Effects on Brain Images with Penalized Regression, submitted to **ISBI 2012**, not accepted.
158. J. GadElkarim<sup>1,3</sup>, O. Ajilore<sup>1</sup>, L. Zhan<sup>4</sup>, A.F. Zhang<sup>1</sup>, A. Kumar<sup>1</sup>, **P.M. Thompson<sup>4</sup>**, A. Leow<sup>1, 2</sup> (2012). **COMPARISON OF BRAIN NETWORK GENERATION METHODS USING GRAPH THEORY**, submitted to **ISBI 2012**, not accepted.

## CVPR 2012

159. Zhan L, Wang YL, **Thompson PM** (2012). *Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using Heat Kernel Signature and Mobius Transformation*, submitted to **CVPR**, Nov 21 2011.

## MICCAI 2012

160. GadElkarim, J., D. Schonfeld, O. Ajilore, L. Zhan, A. Zhang, J. Feusner, **P. Thompson**, T. Simon, A. Kumar, and A. Leow, *A Framework for Quantifying Node-Level Community Structure Group Differences in Brain Connectivity Networks*. Medical Image Computing and Computer-Assisted Intervention–MICCAI 2012, 2012: p. 196-203.
161. Zhan L, Wang YL, **Thompson PM** (2012). *Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using Heat Kernel Signature and Mobius Transformation*, **MICCAI 2012**, submitted, March 1 2012.
162. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Kori Johnson<sup>2,3</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>3</sup>, Ian B. Hickie<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, **Paul M. Thompson<sup>1</sup>** (2012). **Test-retest Reliability of Graph Theory Measures of Structural Brain Connectivity**, **MICCAI 2012**.
163. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Junning Li<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, and **Paul M. Thompson<sup>1</sup>** (2012). Automatic Population HARDI White Matter Tract Clustering by Label Fusion of Multiple Tract Atlases, **MICCAI 2012**, submitted, March 1 2012.
164. Neda Jahanshad, Gautam Prasad, Arthur W. Toga, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, and **Paul M. Thompson<sup>1</sup>** (2012). Path Lengths in Brain Networks: HARDI-based Anatomical Connectivity Maps in 468 Adults, **MICCAI 2012**, submitted, March 1 2012.
165. Leow, A., L. Zhan, D. Arienzo, J. GadElkarim, A. Zhang, O. Ajilore, A. Kumar, P. Thompson, and J. Feusner, *Hierarchical Structural Mapping for Globally Optimized Estimation of Functional Networks*. Medical Image Computing and Computer-Assisted Intervention–MICCAI 2012, 2012: p. 228-236.

## MICCAI 2012 Workshops (12 papers accepted; each 12-page full papers, peer-reviewed)

166. Xue Hua PhD<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Christina P. Boyle<sup>1</sup>, Christopher R. K. Ching<sup>1</sup>, Priya Rajagopalan MD<sup>1</sup>, Alex D. Leow MD PhD<sup>2,3,4</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>4</sup>, Michael W. Weiner MD<sup>5,6,7</sup>, **Paul M. Thompson PhD<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2012). **Accurate, Unbiased Estimation of Longitudinal Brain Change using Tensor-based Morphometry: Validations on the ADNI Dataset**, **MICCAI NIBAD 2012, submitted, June 15 2012**.
167. Christopher R. K. Ching<sup>1</sup>, Xue Hua<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Chadwick P. Ward<sup>2</sup>, Jeffrey L. Gunter<sup>2</sup>, Matt A. Bernstein<sup>2</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael W. Weiner<sup>3,4,5</sup>, **Paul M. Thompson<sup>1,6</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2012). MRI SCAN ACCELERATION AND POWER TO TRACK BRAIN CHANGE, **MICCAI NIBAD 2012, submitted, June 15 2012**.
168. Talia M. Nir<sup>1</sup>, Gautam Prasad<sup>1</sup>, Shantanu H. Joshi<sup>1</sup>, Julio Villalon<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Matt A. Bernstein<sup>2</sup>, Bret J. Borowski<sup>2</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **Predicting Future Brain Atrophy from DTI-based Maximum Density Path Analysis in Mild Cognitive Impairment and Alzheimer's Disease**, **MICCAI NIBAD 2012, accepted**.
169. Talia M. Nir<sup>1\*</sup>, Neda Jahanshad<sup>1\*</sup>, Arthur W. Toga<sup>1</sup>, Matt A. Bernstein<sup>2</sup>, Bret J. Borowski<sup>2</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, **Paul M. Thompson<sup>1</sup>**, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **Connectivity Network Breakdown Predicts Imminent Volumetric Atrophy in Early Mild Cognitive Impairment**, **MICCAI Multi-Modal Workshop (MBIA) 2012, accepted**.

170. Julio Villalon-Reina<sup>1</sup>, Gautam Prasad<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Maria Jalbrzikowski<sup>3</sup>, Arthur W. Toga<sup>2</sup>, Carrie E. Bearden<sup>3,4</sup>, **Paul M. Thompson<sup>1,4</sup>** (2012). **Statistical Analysis of Maximum Density Path Deformation Fields in White Matter Tracts, MICCAI CDMRI 2012, accepted.**
171. Boris Gutman, Xue Hua, Priya Rajagopalan, Arthur W. Toga, **Paul M. Thompson** (2012). Maximizing Power to Track Alzheimer's Disease Progression by LDA-Based Weighting of Longitudinal Ventricular Surface Features, **MICCAI NIBAD 2012, accepted.**
172. Boris Gutman, Ryan McComb, Jerry Moon, **Paul M. Thompson** (2012). Robust Shape Correspondence via Spherical Patch Matching for Atlases of Partial Skull Models, **MICCAI Mesh Modeling Workshop, accepted.**
173. Daianu M, Jahanshad N, Nir T, **Dennis E**, Toga AW, Jack Jr. CR, Weiner MW, Thompson PM, and the Alzheimer's Disease Neuroimaging Initiative. (2012). Analyzing the Structural k-core of Brain Connectivity Networks in Normal Aging and Alzheimer's Disease. Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders (NIBAD), 15th Medical Image Computing and Computer Assisted Intervention (MICCAI), Nice, 52-62 (peer reviewed conference paper).
174. Liang Zhan, Yalin Wang, **Paul M. Thompson** (2012). Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using the Heat Kernel Signature and Möbius Transformation, **MICCAI CDMRI 2012, accepted.**
175. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Junning Li<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, and **Paul M. Thompson<sup>1</sup>** (2012). Automatic Population HARDI White Matter Tract Clustering by Label Fusion of Multiple Tract Atlases, **MICCAI MBIA Workshop 2012, accepted.**
176. Neda Jahanshad, Talia Nir, Clifford R. Jack Jr, Michael W. Weiner, Arthur W. Toga, **Paul M. Thompson** (2012). Boosting power to associate brain connectivity measures and dementia severity using Seemingly Unrelated Regression, **MICCAI NIBAD 2012, Oct 1-4 2012.**
177. Neda Jahanshad, Gautam Prasad, Arthur W. Toga, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, and **Paul M. Thompson<sup>1</sup>** (2012). Genetics of Path Lengths in Brain Connectivity Networks: HARDI-based Maps in 457 Adults, **MICCAI MBIA workshop, accepted.**
178. Cetingul HE, Sapiro G, Nadar M, **Paul M. Thompson**, Lenglet C (2012). Simultaneous ODF Estimation and Robust Probabilistic Tractography from HARDI, **MICCAI CDMRI 2012, accepted.**

#### **EMBC 2012**

179. Cetingul HE, Mariappan Nadar, **Paul Thompson**, Guillermo Sapiro, and Christophe Lenglet (2012). Simultaneous ODF Estimation and Tractography in HARDI, **EMBC 2012.**
180. Lepore N\*, Joshi AA\*, Brun C, Villalon J, **Thompson PM** (2013). Comparison of 3D image registration algorithms with and without surface constraints for population studies, SIPAIM conference (8th International Seminar on Medical Information Processing and Analysis), San Cristóbal, Venezuela, accepted, 2012; Nov. 12-15 2012 [full-length peer reviewed paper].

#### **ISBI 2013 (8 out of 9 papers accepted)**

181. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G.



- Martin<sup>3</sup>, Ian Hickie<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, **Paul M. Thompson** (2013). **DEVELOPMENT OF THE “RICH CLUB” IN BRAIN NETWORKS FROM 438 ADOLESCENTS & ADULTS AGED 12 TO 30**, accepted; **ISBI 2013, Jan. 14 2013.**
182. Gautam Prasad, Talia M. Nir, Arthur W. Toga, **Paul M. Thompson** and the ADNI (2013). **TRACTOGRAPHY DENSITY AND NETWORK MEASURES IN ALZHEIMER’S DISEASE**, Proc IEEE Int Symp Biomed Imaging. 2013 Apr;2013:692-695.
183. Gautam Prasad<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>2</sup>, and **Paul M. Thompson<sup>1</sup>** (2013). **FLOW-BASED NETWORK MEASURES OF BRAIN CONNECTIVITY IN ALZHEIMER’S DISEASE**, Proc IEEE Int Symp Biomed Imaging. 2013;2013:258-261.
184. Derrek P. Hibar<sup>1</sup>, Sarah E. Medland<sup>2,3</sup>, Jason L. Stein<sup>1</sup>, Sungeun Kim<sup>4</sup>, Li Shen<sup>4</sup>, Andrew J. Saykin<sup>4</sup>, Greig I. de Zubicaray<sup>5</sup>, Katie L. McMahon<sup>6</sup>, Grant W. Montgomery<sup>2</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2,5</sup>, Srdjan Djurovic<sup>7</sup>, Ingrid Agartz<sup>7</sup>, Ole A. Andreassen<sup>7</sup>, **Paul M. Thompson<sup>1</sup>** (2013). **GENETIC CLUSTERING ON THE HIPPOCAMPAL SURFACE FOR GENOME-WIDE ASSOCIATION STUDIES**, submitted to **ISBI 2013, Nov. 5 2012.**
185. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Yan Jin<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3,4</sup>, Greig I. de Zubicaray<sup>4</sup>, **Paul M. Thompson<sup>1</sup>** (2013). **BRAIN NETWORK EFFICIENCY AND TOPOLOGY DEPEND ON THE FIBER TRACKING METHOD: 11 TRACTOGRAPHY ALGORITHMS COMPARED IN 536 SUBJECTS**, accepted; **ISBI 2013, Jan. 14 2013.**
186. Madelaine Daianu<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, **Paul M. Thompson<sup>1</sup>** and the Alzheimer’s Disease Neuroimaging Initiative\*\* (2013). **ALZHEIMER’S DISEASE DISRUPTS RICH CLUB ORGANIZATION IN BRAIN CONNECTIVITY NETWORKS**, accepted; **ISBI 2013, Jan. 14 2013.**
187. Kenia Martínez\*, <sup>3</sup>Julio Villalón-Reina\*, <sup>1</sup> Dominique Kessel, <sup>4</sup>Anand Joshi, <sup>2</sup>Jose Ángel Pineda, <sup>3</sup>Neda Jahanshad, <sup>1</sup>Talia Nir, <sup>3</sup>Kristian Eschenburg, <sup>1</sup>Francisco J. Román, <sup>5</sup>Miguel Burgaleta, <sup>2</sup>Ana Beatriz Solana, <sup>6</sup>M. Angeles Quiroga, <sup>1</sup>Roberto Colom, <sup>3</sup>**Paul M. Thompson** (2013). **EXPLORATORY FACTOR ANALYSIS OF BRAIN NETWORKS REVEALS SUB-NETWORKS RELATED TO COGNITIVE PERFORMANCE**, accepted; **ISBI 2013, Jan. 14 2013.**
188. Eric C. Chi\*, Genevera I. Allen\*\*, Hua Zhou††, Omid Kohanim†, Kenneth Lange\*, **Paul M. Thompson†** (2013). **IMAGING GENETICS VIA SPARSE CANONICAL CORRELATION ANALYSIS**, accepted; **ISBI 2013, Jan. 14 2013.**
189. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, **Paul M. Thompson** (2013). **AUTOMATIC HARDI WHITE MATTER LABELING BY FUSION OF MULTIPLE TRACT ATLASES AND ITS APPLICATION TO GENETICS**, accepted; **ISBI 2013, Jan. 14 2013.**
190. Kristopher Kalish\*, **Paul Thompson**, James Becker, Tony Simon, Owen Carmichael (2013). **Brain Region Segmentation Using Point Set Surfaces**, submitted to **ISBI 2013, Nov. 10 2012.**
191. Boris Gutman\*, Xue Hua, Arthur Toga, **Paul Thompson** (2013). **"SPATIALLY REGULARIZED DISCRIMINANT ANALYSIS BOOSTS BIOMARKER POWER IN ALZHEIMER’S DISEASE"**, submitted to **ISBI 2013, Nov. 10 2012; withdrawn as it was submitted one hour too late.**

**IPMI 2013 (2 papers submitted; peer-reviewed)**

192. Prasad G, Shantanu Joshi, Neda Jahanshad, Arthur Toga, **Thompson PM** (2013). Refining Brain Connectivity Analysis to Optimally Identify Disease, to be submitted to IPMI 2013, Dec. 22 2012.
193. Olusola Ajilore<sup>1</sup>, Liang Zhan<sup>2</sup>, Johnson J. GadElkarim<sup>1,3</sup>, Aifeng Zhang<sup>1</sup>, Jamie Feusner<sup>4</sup>, Shaolin Yang<sup>1</sup>, Anand Kumar<sup>1</sup>, **Paul M. Thompson<sup>2</sup>**, Alex Leow (2013). Constructing the resting state structural connectome, to be submitted to IPMI 2013, Dec. 22 2012.

**MICCAI 2013 (Japan; peer-reviewed papers, 8 pages each)**

194. Hibar D, Sarah E. Medland<sup>2</sup>, Jason L. Stein<sup>1</sup>, Sungeun Kim<sup>3</sup>, Li Shen<sup>3</sup>, Andrew J. Saykin<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>5</sup>, Grant W. Montgomery<sup>2</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Srdjan Djurovic<sup>6</sup>, Ingrid Agartz<sup>6,7</sup>, Ole A. Andreassen<sup>6</sup>, Paul M. Thompson (2013). **Genetic clustering on the hippocampal surface for genome-wide association studies**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
195. Hibar D, Jason L. Stein<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Grant W. Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Michael W. Weiner<sup>5,6</sup>, Paul M. Thompson (2013). **Exhaustive search of the SNP-SNP interactome identifies replicated epistatic effects on brain volume**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
196. Li J\*, Jin Y\*, Shi Y, Dinov ID, Wang JJ, Toga AW, **Thompson PM** (2013). **Voxelwise Spectral Diffusional Connectivity and its applications to Alzheimer's Disease and Intelligence Prediction**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
197. Cetingul HE, Sapiro G, **Thompson P**, Lenglet C (2013). Importance Sampling Spherical Harmonics to Improve Filtered Probabilistic Tractography, PRNI 2013 conference [full paper], accepted.

**MICCAI 2013 Workshops (10 papers)**

198. Reynolds G, Nir T, Jahanshad N, **Thompson PM** (2013). Using the raw diffusion MRI signal for classification of Alzheimer's disease using machine learning, **MICCAI MLMI Workshop**, Japan, 2013, submitted.
199. Sarah K. Madsen<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, Paul M. Thompson<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Mapping dynamic changes in ventricular volume onto baseline cortical surface maps in normal aging, MCI, and Alzheimer's disease**, **MICCAI MBIA Workshop**, Japan, 2013, submitted.
200. *Madelaine Daianu<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Talia M. Nir<sup>1</sup>, Jahanshad N, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Paul M. Thompson<sup>1\*</sup> and the Alzheimer's Disease Neuroimaging Initiative* (2013). **Disrupted Brain Connectivity in Alzheimer's Disease: Effects of Network Thresholding**, **MICCAI BC Workshop**, Japan, 2013.
201. Prasad G, Joshi S, Toga AW, **Thompson PM** (2013). **A Dynamical Clustering Model of Brain Connectivity Inspired by the N-Body Problem**, **MICCAI MBIA Workshop**, Japan, 2013, submitted, Sept. 22-26 2013 [12-page paper; peer-reviewed].
202. Emily L. Dennis<sup>1</sup>, Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Bryon A. Mueller<sup>2</sup>, Yan Jin<sup>1</sup>, Christophe Lenglet<sup>3</sup>, Essa Yacoub<sup>3</sup>, Guillermo Sapiro<sup>4</sup>, Kamil Ugurbil<sup>3</sup>, Noam Harel, Arthur W. Toga<sup>1</sup>, Kelvin O. Lim<sup>2</sup>, Paul M. Thompson (2013). **Rich Club Analysis of Structural Brain Connectivity at 7 Tesla versus 3 Tesla**, submitted to **MICCAI MMBC Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].

203. Jahanshad N, Peter Kochunov, David Glahn, John Blangero, Thomas E. Nichols, Katie L. McMahon<sup>5</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Talia Nir, Clifford R. Jack, Jr., Michael W. Weiner, the ADNI, Arthur W. Toga, Paul M. Thompson (2013). **Power Estimates for Voxel-Based Genetic Association Studies using Diffusion Imaging**, submitted to **MICCAI MBIA Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [12-page paper; peer-reviewed].
204. Neda Jahanshad\*<sup>1</sup>, Priya Bhatt\*<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Julio E. Villalon<sup>1</sup>, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Matthew A. Bernstein<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, the Alzheimer's Disease Neuroimaging Initiative (ADNI), Katie L. McMahon<sup>5</sup>, Greig I. de Zubicaray<sup>6</sup>, Nicholas G. Martin<sup>7</sup>, Margaret J. Wright<sup>7</sup>, Paul M. Thompson (2013). **Bivariate genome-wide association study of genetically correlated neuroimaging phenotypes from DTI and MRI through a Seemingly Unrelated Regression model**, submitted to **MICCAI MBIA Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [12-page paper; invited paper].
205. Gutman B, Madsen SK, Toga AW, Thompson PM (2013). **A Family of Fast Spherical Registration Algorithms for Cortical Shapes**, submitted to **MICCAI 2013, MeshMed Workshop**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
- ISBI 2014 (13 papers)**
206. L. Zhan<sup>1,2</sup>, N. Jahanshad<sup>1,2</sup>, Y. Jin<sup>1,2</sup>, T.M. Nir<sup>2</sup>, C. Leonardo<sup>2</sup>, M. Bernstein<sup>3</sup>, B. Borowski<sup>3</sup>, Clifford R. Jack Jr.<sup>3</sup>, P.M. Thompson (2014). **UNDERSTANDING SCANNER UPGRADE EFFECTS ON BRAIN INTEGRITY & CONNECTIVITY MEASURES**, **ISBI 2014, in press.**
207. Kristian Eschenburg, Villalon JE, Jahanshad N, Nir T, Daianu M, <sup>1</sup>Cassandra Leonardo, <sup>3</sup>Stella de Bode, <sup>4</sup>Susan Y. Bookheimer, <sup>5</sup>Noriko Salamon, **Thompson PM** (2014). **Analysis of Structural Brain Connectivity in 6 Cases of Hemispherectomy**, **ISBI 2014, in press.**
208. *Madelaine Daianu<sup>1,2</sup>, Neda Jahanshad<sup>1,2</sup>, Cassandra Leonardo<sup>2</sup>, Julio E. Villalon-Reina<sup>2</sup>, Elvira Jimenez<sup>3</sup>, Mario F. Mendez<sup>3</sup>, Paul M. Thompson (2014). **Robust Computation of the Connectivity Network Core, with Applications to Dementia**, submitted to **ISBI 2014.***
209. *Xue Hua PhD<sup>1\*</sup>, Boris A. Gutman PhD<sup>1\*</sup>, Priya Bhatt<sup>1</sup>, Derrek P. Hibar PhD<sup>1</sup>, Christopher R. K. Ching<sup>1</sup>, Alex D. Leow MD PhD<sup>2,3</sup>, Clifford R. Jack Jr MD<sup>4</sup>, Michael W. Weiner MD<sup>5</sup>, Paul M. Thompson PhD<sup>1,6</sup> and the Alzheimer's Disease Neuroimaging Initiative*, submitted to **ISBI 2014.**
210. G. K. Reynolds<sup>1</sup>, T. M. Nir<sup>2</sup>, N. Jahanshad<sup>2,3</sup>, G. Prasad<sup>2</sup>, P. M. Thompson (2014). **USING THE RAW DIFFUSION MRI SIGNAL AND THE VON MISES-FISHER DISTRIBUTION FOR CLASSIFICATION OF ALZHEIMER'S DISEASE**, **ISBI 2014, in press.**
211. Nicholus M. Warstadt<sup>1,2</sup>, Neda Jahanshad<sup>1,2</sup>, Emily L. Dennis<sup>1,2</sup>, Omid Kohannim<sup>1,2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Grant W. Montgomery<sup>5</sup>, Anjali E. Henders<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, John B. Whitfield<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, and Paul M. Thompson (2014). **Identifying Candidate Gene Effects by Restricting Search Space in a Multivariate Genetic Analysis of White Matter Microstructure**, **ISBI 2014, in press.**
212. Prasad G, Joshi SH, **Thompson PM** (2014). **Optimizing Brain Connectivity Networks for Disease Classification**, **ISBI 2014, in press.**
213. Gautam Prasad, Matthew D. Sacchet, Lara C. Foland-Ross, Paul M. Thompson, and Ian H. Gotlib (2014). **Brain Connectivity Classification of Major Depression with Enhanced Training based on Alzheimer's Disease Datasets**, submitted to **ISBI 2014.**

214. Kenia Martínez, <sup>2</sup>Anand A. Joshi, <sup>3</sup>Sarah K. Madsen, <sup>4</sup>Shantanu Joshi, <sup>5</sup>Sherif Karama, Francisco J. Román, <sup>3</sup>Julio Villalon-Reina, <sup>6</sup>Miguel Burgaleta, <sup>3,4</sup>Paul M. Thompson, <sup>1</sup>Roberto Colom (2014). **REPRODUCIBILITY OF BRAIN-COGNITION RELATIONSHIPS USING DIFFERENT CORTICAL SURFACE-BASED ANALYSIS PROTOCOLS, ISBI 2014, in press.**

215. Matthew D. Sacchet<sup>1,2</sup>, Gautam Prasad<sup>2,3</sup>, Lara C. Foland-Ross<sup>2</sup>, Paul M. Thompson<sup>3</sup>, Ian H. Gotlib (2014) ELUCIDATING BRAIN CONNECTIVITY NETWORKS IN MAJOR DEPRESSIVE DISORDER USING CLASSIFICATION-BASED SCORING, **ISBI 2014, in press.**

216. Matthew D. Sacchet<sup>1,2</sup>, Gautam Prasad<sup>2,3</sup>, Lara C. Foland-Ross<sup>2</sup>, Shantanu H. Joshi<sup>4</sup>, J. Paul Hamilton<sup>5</sup>, Paul M. Thompson<sup>3</sup>, Ian H. Gotlib (2014). CHARACTERIZING WHITE MATTER CONNECTIVITY IN MAJOR DEPRESSIVE DISORDER: AUTOMATED FIBER QUANTIFICATION AND MAXIMUM DENSITY PATHS, **ISBI 2014, in press.**

217. L. Zhan<sup>1, 2</sup>, M.A. Bernstein<sup>3</sup>, B. Borowski<sup>3</sup>, Clifford R. Jack Jr., P.M. Thompson (2014). **EVALUATION OF DIFFUSION IMAGING PROTOCOLS FOR THE ALZHEIMER'S DISEASE NEUROIMAGING INITIATIVE, ISBI 2014, in press.**

218. Neda Jahanshad<sup>1,2#</sup>, Peter Kochunov<sup>3#</sup>, Thomas E. Nichols<sup>4,5</sup>, Emma Sprooten<sup>6</sup>, René C. Mandl<sup>7</sup>, Laura Almasy<sup>8</sup>, Rachel M. Brouwer<sup>7</sup>, Joanne E. Curran<sup>8</sup>, Greig I. de Zubicaray<sup>10</sup>, Rali Dimitrova<sup>11</sup>, Ravi Duggirala<sup>8</sup>, Peter T. Fox<sup>12</sup>, L. Elliot Hong<sup>3</sup>, Bennett A. Landman<sup>13</sup>, Hervé Lemaitre<sup>14</sup>, Lorna Lopez<sup>9,15</sup>, Nicholas G. Martin<sup>16</sup>, Katie L. McMahon<sup>17</sup>, Braxton D. Mitchell<sup>18</sup>, Rene L. Olvera<sup>19</sup>, Charles P. Peterson<sup>8</sup>, John M. Starr<sup>9,20</sup>, Jessika E. Sussmann<sup>21</sup>, Arthur W. Toga<sup>1</sup>, Joanna M. Wardlaw<sup>13</sup>, Margaret J. Wright<sup>14</sup>, Susan N. Wright<sup>3</sup>, Mark E. Bastin<sup>13,18</sup>, Andrew M. McIntosh<sup>21</sup>, Dorret I. Boomsma<sup>22</sup>, René S. Kahn<sup>7</sup>, Anouk den Braber<sup>22</sup>, Eco J.C. de Geus<sup>22</sup>, Ian J. Deary<sup>9</sup>, Hilleke E. Hulshoff Pol<sup>7</sup>, Douglas Williamson<sup>19</sup>, John Blangero<sup>8</sup>, Dennis van 't Ent<sup>22</sup>, David C. Glahn<sup>6</sup>, Paul M. Thompson (2014). COMBINING META- AND MEGA- ANALYTIC APPROACHES FOR MULTI-SITE DIFFUSION IMAGING BASED GENETIC STUDIES: FROM THE ENIGMA-DTI WORKING GROUP, **ISBI 2014, in press.**

219. Shen .... *ISBI paper, rejected.*

**MICCAI 2014 and MICCAI Workshops (Boston; peer-reviewed papers, 8 pages each)**

220. Boris A. Gutman, Neda Jahanshad, Derrek P. Hibar, Cassandra Leonardo, Julio Villalon, Kristian Eschenberg, Talia Nir, Paul M Thompson (2014). **Registering Cortical Surfaces based on Whole-Brain Structural Connectivity and Continuous Connectivity Analysis. MICCAI 2014, Boston, MA, USA, in press.**

221. Vidya Rajagopalan, Armin Schwartzman, Xue Hua, Alex Leow, **Paul Thompson**, Natasha Lepore (2014). **Multivariate analysis of Eigenvalues and Eigenvectors in tensor based morphometry. SIPAIM 2014: Tenth International Symposium on Medical Information Processing and Analysis, accepted, Colombia, 2014.**

222. Liang Zhan<sup>1,2</sup>, Nie Zhi<sup>3</sup>, Yan Jin<sup>1,2</sup>, Yalin Wang<sup>3</sup>, Neda Jahanshad<sup>1,2</sup>, Gautam Prasad<sup>1,2</sup>, Talia M. Nir<sup>1,2</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie L. McMahon<sup>4</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, Jieping Ye<sup>3</sup>, Paul M. Thompson<sup>1,2</sup> Multiple stages classification of Alzheimer's disease based on structural brain networks using Generalized Low Rank Approximations (GLRAM). **MICCAI CDMRI Workshop 2014, Boston, MA, USA, accepted.**

223. Daianu M, Jahanshad N, Nir TM, Leonardo CD, Jack CR Jr, Weiner MW, Bernstein M,

- Thompson PM.** Algebraic connectivity of brain networks shows patterns of segregation leading to reduced network robustness in Alzheimer's disease. **MICCAI'14** Computational Diffusion MRI (CDMRI) Workshop, Boston, MA, USA.
224. Daianu M, Jahanshad N, Villalón-Reina J, Mendez MF, Bartzokis G, Jimenez EE, Joshi A, Barsuglia J, **Thompson PM.** Rich club network analysis shows distinct patterns of disruption in frontotemporal dementia and Alzheimer's disease. **MICCAI'14** Computational Diffusion MRI (CDMRI) Workshop, Boston, MA, USA.
225. Emily L. Dennis<sup>1</sup>, Yan Jin<sup>1</sup>, Julio E. Villalón<sup>1</sup>, Liang Zhan<sup>1</sup>, Claudia L. Kernan<sup>2</sup>, Talin Babikian<sup>2</sup>, Christopher C. Giza<sup>3</sup>, Robert F. Asarnow<sup>2</sup>, Paul M. Thompson<sup>1,2</sup> (2014). **Tract Clustering Identifies White Matter Disruption in Pediatric Traumatic Brain Injury**, **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
226. Emily L. Dennis<sup>1,1</sup>, Julio E. Villalón<sup>1\*</sup>, Claudia L. Kernan<sup>2</sup>, Talin Babikian<sup>2</sup>, Christopher C. Giza<sup>3</sup>, Robert F. Asarnow<sup>2</sup>, Paul M. Thompson<sup>1,2</sup> (2014). **Comparison of Microstructural White Matter Measures for Detecting Disruption in Pediatric Traumatic Brain Injury**. **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
227. Yan Jin<sup>1,2</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1,2</sup>, Talia M. Nir<sup>1,2</sup>, Arthur W. Toga<sup>1</sup> and Paul M. Thompson<sup>1,2</sup> **Automated Multi-atlas Labeling of the Fornix and its Integrity in Alzheimer's Disease**. **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
228. *Mary Ellen Koran ; Bo Li ; Neda Jahanshad ; Tricia A. Thornton-Wells ; David C. Glahn ; Paul M. Thompson ; John Blangero ; Thomas E. Nichols ; Peter Kochunov ; Bennett A. Landman (2014).* On study design in neuroimaging heritability analyses, *Proc. SPIE 9034*, Medical Imaging 2014: Image Processing, 90342P (March 21, 2014); doi:10.1117/12.2043565.
- ISBI 2015 (12 papers accepted)**
229. Dajiang Zhu<sup>1</sup>, Liang Zhan<sup>1</sup>, Joshua Faskowitz<sup>1</sup>, Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Paul M. Thompson (2015). GENETIC ANALYSIS OF STRUCTURAL BRAIN CONNECTIVITY USING DICCCOL MODELS OF DIFFUSION MRI IN 522 TWINS, ISBI 2015.
230. Ayşe Demirhan<sup>1,2</sup>, Talia M. Nir<sup>2</sup>, Artemis Zavaliangos-Petropulu<sup>2</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, Matt A. Bernstein<sup>3</sup>, Paul M. Thompson, Neda Jahanshad<sup>2</sup>, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). EFFECT OF FEATURE SELECTION TO IMPROVE THE ACCURACY OF CLASSIFYING ALZHEIMER DISEASE USING DIFFUSION TENSOR IMAGES, ISBI 2015.
231. Christopher R. K. Ching<sup>1, 2</sup>, Boris A. Gutman<sup>2</sup>, Derrek P. Hibar<sup>2</sup>, Neda Jahanshad<sup>2</sup>, Benson Mwangi<sup>3</sup>, Jair C. Soares<sup>3</sup>, Paul M. Thompson (2015) SHAPE MODELING MAY OUTPERFORM GROSS VOLUMETRICS IN DETECTING SUBCORTICAL DIFFERENCES IN BIPOLAR DISORDER, ISBI 2015.
232. Sarah K. Madsen<sup>1</sup>, Greg Ver Steeg<sup>2</sup>, Adam Mezher<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Xue Hua<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Aram Galstyan<sup>2</sup>, Paul M. Thompson<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). INFORMATION-THEORETIC CHARACTERIZATION OF BLOOD PANEL PREDICTORS FOR BRAIN ATROPHY AND COGNITIVE DECLINE IN THE ELDERLY, ISBI 2015.

233. Sarah K. Madsen<sup>1</sup>, Greg Ver Steeg<sup>2</sup>, Adam Mezher<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Xue Hua<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Aram Galstyan<sup>2</sup>, Paul M. Thompson (2015). **RELATIVE VALUE OF DIVERSE BRAIN MRI AND BLOOD-BASED MEASURES FOR PREDICTING COGNITIVE DECLINE IN THE ELDERLY**, ISBI 2015.
234. L. Zhan<sup>1,2</sup>, N. Jahanshad<sup>2</sup>, J. Faskowitz<sup>2</sup>, G. Prasad<sup>2</sup>, N.G. Martin<sup>3</sup>, G.I. de Zubicaray<sup>4</sup>, K.L. McMahon<sup>5</sup>, M.J. Wright<sup>3</sup>, P.M. Thompson (2015). HERITABILITY OF BRAIN NETWORK TOPOLOGY IN 853 TWINS AND SIBLINGS, ISBI 2015.
235. Yan Jin<sup>1,2</sup>, Yonggang Shi<sup>2</sup>, Liang Zhan<sup>1,2</sup>, Paul M. Thompson<sup>1,2</sup> and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). AUTOMATED MULTI-ATLAS LABELING OF THE FORNIX AND ITS INTEGRITY IN ALZHEIMER'S DISEASE, ISBI 2015.
236. Emily L. Dennis<sup>1</sup>, Yan Jin<sup>1</sup>, Claudia Kernan<sup>2</sup>, Talin Babikian<sup>2</sup>, Richard Mink<sup>3</sup>, Christopher Babbitt<sup>4</sup>, Jeffrey Johnson<sup>5</sup>, Christopher C. Giza<sup>6</sup>, Robert F. Asarnow<sup>2,7</sup>, Paul M. Thompson (2015). WHITE MATTER INTEGRITY IN TRAUMATIC BRAIN INJURY: EFFECTS OF PERMISSIBLE FIBER TURNING ANGLE, ISBI 2015.
237. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Adam Mezher<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Talia M. Nir<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Matthew Bernstein<sup>2</sup>, Paul M. Thompson (2015). SPECTRAL GRAPH THEORY AND GRAPH ENERGY METRICS SHOW EVIDENCE FOR THE ALZHEIMER'S DISEASE DISCONNECTION SYNDROME IN *APOE-4* RISK GENE CARRIERS, ISBI 2015.
238. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Tara Pirnia<sup>2</sup>, Amber M. Leaver<sup>2</sup>, Roger P. Woods<sup>2,3</sup>, Paul M. Thompson<sup>1,3</sup>, Randall Espinoza<sup>3</sup>, Katherine L. Narr (2015). RANDOM FOREST CLASSIFICATION OF DEPRESSION STATUS BASED ON SUBCORTICAL BRAIN MORPHOMETRY FOLLOWING ELECTROCONVULSIVE THERAPY, ISBI 2015.
239. Benjamin S.C. Wade<sup>1</sup>, Victor G. Valcour<sup>2</sup>, Lauren Wendelken-Riegelhaupt<sup>2</sup>, Pardis Esmaeili-Firidouni<sup>2</sup>, Shantanu H. Joshi<sup>4</sup>, Yalin Wang<sup>5</sup>, Paul M. Thompson (2015). MAPPING ABNORMAL SUBCORTICAL BRAIN MORPHOMETRY IN AN ELDERLY HIV+ COHORT, ISBI 2015.
240. Tao Yang, Jie Wang, Qian Sun, Derrek Hibar, Neda Jahanshad, Liang Zhan, Paul Thompson, Jieping Ye (2015). DETECTING GENETIC RISK FACTORS FOR ALZHEIMER'S DISEASE IN WHOLE GENOME SEQUENCING DATA VIA LASSO SCREENING, ISBI 2015.
241. Binbin Lin, Xi Jiang, Jinglei Lv, Qingyang Li, Paul Thompson, Tianming Liu, Jieping Ye (2015). A NOVEL STOCHASTIC COORDINATE CODING APPROACH FOR EFFICIENT SPARSE REPRESENTATION OF RESTING STATE FMRI DATA, ISBI 2015, SUBMITTED.
242. Boris A. Gutman<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Yalin Wang<sup>2</sup>, Peter V. Kochunov<sup>3</sup>, Thomas E. Nichols<sup>4</sup>, Paul M. Thompson<sup>1</sup> (2015). MEDIAL DEMONS REGISTRATION LOCALIZES THE DEGREE OF GENETIC INFLUENCE OVER SUBCORTICAL SHAPE VARIABILITY: AN N=1480 META-ANALYSIS, ISBI 2015.
243. Liang Zhan, Yashu Liu, Jiayu Zhou, Jieping Ye, Paul Thompson (2015). BOOSTING CLASSIFICATION ACCURACY OF DIFFUSION MRI DERIVED BRAIN NETWORKS FOR THE SUBTYPES OF MILD COGNITIVE IMPAIRMENT USING HIGHER ORDER SINGULAR VALUE DECOMPOSITION, ISBI 2015.

244.Chenhui Hu, Xiaoxiao LI, JING LI, JIE MA, Xue Hua, Paul Thompson, Quanzheng Li (2015). PREDICTING BRAIN ATROPHY PATTERNS FOR ALZHEIMER'S DISEASE WITH MULTI-GROUP SPARSE VECTOR AUTOREGRESSION, ISBI 2015, SUBMITTED.

### **IPMI 2015 (3 papers)**

245.Michelle Hromatka, Miaomiao Zhang, Greg Fleishman, Boris Gutman, Neda Jahanshad, **Paul Thompson**, P. Thomas Fletcher (2015). A Hierarchical Bayesian Model for Multi-Site Diffeomorphic Image Atlases, IPMI 2015, not submitted.

246.Dajiang Zhu, Binbin Lin, Joshua Faskowitz, Jieping Ye, **Paul Thompson** (2015). Embedded Sparse Representation of fMRI Data via Group-wise Dictionary Optimization, **IPMI 2015, paper accepted.**

247.Boris Gutman, Thomas Fletcher, M. Jorge Cardoso, Greg Fleishman, Marco Lorenzi, **Paul Thompson**, Sebastien Ourselin (2015). A Riemannian Framework for Intrinsic Comparison of Closed Genus-Zero Shapes, **IPMI 2015, paper accepted; also selected for oral presentation.**

248.Greg Fleishman, Boris Gutman, Thomas Fletcher, **Paul Thompson** (2015). Simultaneous Longitudinal Registration with Group-wise Similarity Prior, **IPMI 2015, paper accepted.**

### **IEEE E-SCIENCE Conference 2014**

249.Daniel Garijo, Oscar Corcho, Yolanda Gil, Boris A. Gutman, Ivo D. Dinov, Paul M. Thompson, Arthur W. Toga (2014). FragFlow: Automated Fragment Detection in Scientific Workflows, IEEE E-Science Conference, accepted, July 2014.

250.Daniel Garijo, Oscar Corcho, Yolanda Gil, Meredith N. Braskie, Derrek P. Hibar, Xue Hua, Neda Jahanshad, Paul Thompson, Arthur W. Toga (2014). Workflow Reuse in Practice: A Study of Neuroimaging Pipeline Users, IEEE E-Science Conference, accepted, July 2014.

### **SPIE Conference 2015**

251.Madelaine Daianu<sup>\*a</sup>, Neda Jahanshad<sup>a</sup>, Mario F. Mendez<sup>b</sup>, George Bartzokis<sup>c</sup>, Elvira E. Jimenez<sup>b</sup>, Paul M. Thompson (2015). **Global communication brain networks altered in behavioral variant frontotemporal dementia but possibly preserved in early-onset Alzheimer's disease**, *SPIE Medical Imaging, 2015.*

252.Madelaine Daianu<sup>\*a</sup>, Neda Jahanshad<sup>a</sup>, Julio E. Villalon-Reina<sup>a</sup>, Gautam Prasad<sup>a</sup>, Russell E. Jacobs<sup>b</sup>, Berislav Zlokovic<sup>c</sup>, Axel Montagne<sup>c</sup>, Paul M. Thompson (2015). 7T Multi-shell Hybrid Diffusion Imaging (HYDI) for Mapping Brain Connectivity in Mice, *SPIE Medical Imaging, 2015.*

253.Benjamin S.C. Wade<sup>1</sup>, Victor Valcour<sup>3</sup>, Edgar Busovaca<sup>2</sup>, Pardis Esmaeili-Firidouni<sup>3</sup>, Shantanu H. Joshi<sup>4</sup>, Yalin Wang<sup>5</sup> Paul M. Thompson (2015). **Subcortical shape and volume abnormalities in an elderly HIV+ cohort**, *SPIE Medical Imaging, 2015.*

254.Greg Fleishman, Boris A. Gutman, Paul M. Thompson (2015). **A transformation similarity constraint for groupwise nonlinear registration in longitudinal brain imaging studies**, *SPIE Medical Imaging, 2015.*

255.Greg ver Steeg, Sarah K. Madsen, Adam Mezher, Neda Jahanshad, Talia M. Nir, Xue Hua, Boris A. Gutman, Aram Galsytan, Paul M. Thompson (2014). **Correlation Explanation for Multi-modal Brain Data**, *Machine Learning in Computational Biology, 2014.*

### MICCAI 2015 and MICCAI Workshops (10 Full Peer-Reviewed Papers)

256. Dennis EL, Prasad G, Daianu M, Zhan L, Kernan C, Babikian T, Mink R, Babbitt C, Johnson J, Giza C, Asarnow R, Thompson PM (2015). **Fiber Tracking in Traumatic Brain Injury: Comparison of 8 Tractography Algorithms**, submitted to MICCAI, March 2015.
257. Lin BB, Jiang X, Lv J, Li Q, Thompson PM, Liu T, Ye J (2015). **A Novel Stochastic Coordinate Coding Approach for Efficient Sparse Representation**, submitted to MICCAI, March 2015.
258. Hromatka M, Zhang M, Fleishman GM, Gutman BA, Jahanshad N, Thompson PM, Fletcher PT (2015). **A Hierarchical Bayesian Model for Multi-Site Diffeomorphic Image Atlases**, MICCAI, in press, 2015.
259. Mezher A, Galvis J, Fletcher PT, Zavaliangos-Petropulu A, Villalon-Reina JE, Jahanshad N, **Thompson PM**, Prasad G (2015). EPI distortion techniques for modeling Parkinson's disease, submitted to MICCAI, March 2015.
260. Prasad G, Mackey L, Mehzer A, Galvis J, Ragothaman A, Fletcher PT, **Thompson PM** (2015). Evolving the human connectome for efficient classification of disease, submitted to MICCAI, March 2015.
261. Prasad G, Faskowitz J, Soman S, Becky, Liza, Visha, Terzopoulos D, Rosen A, Zhou W, **Thompson PM** (2015). Multi-modality segmentation of infarcts through multi-level stochastic diffusion search, submitted to MICCAI, March 2015.
262. Prasad G, Shantanu Joshi, Joshua Faskowitz, Katherine Narr, **Paul Thompson** (2015). Learning based maximum density path optimization for analysis of disease, to be submitted to MICCAI, March 2015.
263. Joshua Faskowitz, Shantanu Joshi, Katherine Narr, **Paul Thompson**, Gautam Prasad (2015). Modeling noise and EPI distortion for connectivity based analysis of depression, to be submitted to MICCAI, March 2015.
264. Moyer D, Gutman BA, Prasad G, Ver Steeg G, **Thompson PM** (2015). Mixed Membership Stochastic Block Models for the Human Connectome, MICCAI Bayesian Modeling Workshop, BAMBI, June 8 2015, in press.
265. Wade B, Shantanu H. Joshi<sup>2</sup>, Boris A. Gutman<sup>1</sup>, Katherine L. Narr<sup>2</sup>, **Thompson PM** (2015). Machine Learning on High Dimensional Surface-Based Shape Data: A Comparison of Feature Selection and Classification Methods, submitted to MICCAI Machine Learning Workshop, MLMI, in press.
266. Neda Jahanshad<sup>1</sup>, Gennady Roshchupkin<sup>5</sup>, Joshua Faskowitz<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Hieab H.H. Adams<sup>3,4</sup>, Wiro J. Niessen<sup>5</sup>, Meike W. Vernooij<sup>3,4</sup>, M. Arfan Ikram<sup>3,4,6</sup>, Marcel P. Zwiers<sup>7</sup>, Alejandro Arias Vasquez<sup>8</sup>, Barbara Franke<sup>8</sup>, Alex Ing<sup>9</sup>, Sylvane Desrivieres<sup>9</sup>, Gunter Schumann<sup>9</sup>, Greig I. de Zubicaray<sup>a</sup>, Katie L. McMahon<sup>b</sup>, Sarah E. Medland<sup>c</sup>, Margaret J. Wright<sup>c</sup>, **Paul M. Thompson**<sup>1</sup> (2015). Multi-site meta-analysis of image-wide genome-wide associations with morphometry, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.
267. Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Sarah E. Medland<sup>2</sup>, **Paul M. Thompson** (2015). Continuous inflation analysis: a threshold-free method to estimate genetic overlap and boost power in imaging genetics, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.
268. Daniel A. Rinker<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright<sup>4</sup>, **Paul M. Thompson** (2015). Genetic connectivity – correlated genetic control of cortical thickness, brain volume and white matter, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.



269. Daianu M, Ver Steeg G, Mezher A, Jahanshad N, Nir TM, Lerman K, Prasad G, Galstyan A, Yan X, **Thompson PM** (2015). Information-Theoretic Clustering of Neuroimaging Metrics Related to Cognitive Decline in the Elderly, *MICCAI Workshop on Medical Computer Vision: Algorithms for Big Data*, in press.
270. Talia M. Nir<sup>1</sup>, Julio E. Villalon<sup>1</sup>, Boris Gutman<sup>1</sup>, Dan Moyer<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael Weiner<sup>3</sup>, **Paul M. Thompson<sup>1</sup>**, the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Alzheimer's Disease Classification with Novel Microstructural Metrics from Diffusion-Weighted MRI, MICCAI CDMRI (Computational Diffusion MRI) Workshop, June 2015, in press.**
271. J. E. Villalon-Reina<sup>1</sup>, T. Nir<sup>1</sup>, N. Jahanshad<sup>1</sup>, Liang Zhan<sup>1</sup>, K. McMahon<sup>2</sup>, G.I. de Zubicaray<sup>3</sup>, N.G. Martin<sup>4</sup>, M.J. Wright<sup>4</sup>, P. M. Thompson (2015). Reliability of Structural Connectivity Examined with Four Different Diffusion Reconstruction Methods at Two Different Spatial and Angular Resolutions, **MICCAI CDMRI (Computational Diffusion MRI) Workshop, June 2015, in press.**
272. Dajiang Zhu, Neda Jahanshad, Brandalyn Riedel, Liang Zhan, Joshua Faskowitz, Gautam Prasad, **Paul Thompson** (2015), Population Learning of Structural Connectivity by White Matter Encoding and Decoding, **submitted to MICCAI CDMRI (Computational Diffusion MRI) workshop, June 2015.**
273. Dennis EL, Prasad G, Daianu M, Zhan L, Kernan CL, Babikian T, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, **Thompson PM** (2015). Fiber Tracking in Traumatic Brain Injury: Comparison of 9 Tractography Algorithms. *MICCAI: BrainLes 2015*, **accepted; also Platform Talk.**
274. Fleishman G, Fletcher PT, Gutman BA, Prasad G, Wu Y, **Thompson PM** (2015). Geodesic Refinement using James-Stein Estimators, **MICCAI MFCA (Math Foundations of Computational Anatomy) Workshop**, in press.
275. Gutman BA, Fletcher PT, Fleishman G, **Thompson PM** (2015). Reconstructing Karcher Means of Shapes on a Riemannian Manifold of Metrics and Curvatures, **MICCAI MFCA (Math Foundations of Computational Anatomy) Workshop**, in press.
- SIPAIM 2015 (Ecuador; Nov. 2015)**
276. Emily L. Dennis, Gautam Prasad<sup>1</sup>, Claudia Kernan<sup>2</sup>, Talin Babikian<sup>2</sup>, Richard Mink<sup>3</sup>, Christopher Babbitt<sup>4</sup>, Jeffrey Johnson<sup>5</sup>, Christopher C. Giza<sup>6</sup>, Robert F. Asarnow<sup>2,7</sup>, **Paul M. Thompson (2015). Adaptive Algorithms to Map how Brain Trauma Affects Anatomical Connectivity in Children, SIPAIM 2015, July 2015.**
277. Madelaine Daianu<sup>1</sup>, Russell E. Jacobs<sup>2</sup>, Berislav V. Zlokovic<sup>3</sup>, Axel Montagne<sup>3</sup>, **Paul M. Thompson** (2015). **RECONSTRUCTION OF MAJOR FIBERS USING 7T MULTI-SHELL HYBRID DIFFUSION IMAGING IN MICE, SIPAIM 2015, July 2015.**
278. Daniel Moyer, Boris Gutman, Gautam Prasad, Joshua Faskowitz, Greg Ver Steeg, and Paul Thompson, **BLOCKMODELS FOR CONNECTOME ANALYSIS, SIPAIM 2015, July 2015.**
279. Neda Jahanshad<sup>1</sup>, Joshua Faskowitz<sup>1</sup>, Gennady Roshchupkin<sup>5</sup>, Derrek P. Hibar<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Nicholas J. Tustison<sup>2</sup>, Heeb H.H. Adams<sup>3,4</sup>, Wiro J. Niessen<sup>5</sup>, Meike W. Vernooij<sup>3,4</sup>, M. Arfan Ikram<sup>3,4,6</sup>, Marcel P. Zwiers<sup>7</sup>, Alejandro Arias Vasquez<sup>8</sup>, Barbara Franke<sup>8</sup>, Jennifer L. Kroll<sup>x</sup>, Benson Mwangi<sup>x</sup>, Jair C. Soares<sup>x</sup>, Alex Ing<sup>9</sup>, Sylvane Desrivieres<sup>9</sup>, Gunter Schumann<sup>9</sup>, Sarah E Medland<sup>c</sup>, Narelle K. Hansell, Greig I. de Zubicaray<sup>a</sup>, Katie L. McMahon<sup>b</sup>, Nicholas G. Martin<sup>c</sup>, Margaret J. Wright<sup>c</sup>, **Paul M. Thompson** (2015). **MULTI-SITE META-ANALYSIS OF MORPHOMETRY, SUBMITTED TO THE BIO-KDD WORKSHOP, SYDNEY,**

AUSTRALIA; 14th International Workshop on Data Mining in Bioinformatics, August 10, **2015**.

### **SPIE 2016**

280. Dajiang Zhu, Binbin Lin, Joshua Faskowitz, Jieping Ye, **Paul Thompson** (2015), Embedded Sparse Representation of fMRI Data via Group-wise Dictionary Optimization, **submitted to SPIE**, Aug. 2015.
281. George Hafzalla<sup>1</sup>, Gautam Prasad<sup>1</sup>, Vatche G. Baboyan<sup>1</sup>, Joshua Faskowitz<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright<sup>4</sup>, Meredith N. Braskie<sup>1</sup>, and Paul M. Thompson (2015). The heritability of the functional connectome is robust to common nonlinear registration methods, **submitted to SPIE**, Aug. 2015, accepted.
282. Madelaine Daianu<sup>\*a</sup>, Russell E. Jacobs<sup>b</sup>, Terrence C. Town, Paul M. Thompson (2015). **Axonal Diameter and Density Estimated with 7-Tesla Hybrid Diffusion Imaging in Transgenic Alzheimer Rats**, **submitted to SPIE**, Aug. 2015.
283. Joshua Faskowitz<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Margaret J. Wright<sup>3</sup>, Paul M. Thompson<sup>1</sup>, Neda Jahanshad (2015). Comparison of template registration methods for multi-site meta-analysis of brain morphometry, **submitted to SPIE**, Aug. 2015.
284. Justin Galvis<sup>\*1</sup>, Adam F. Mezher<sup>\*1</sup>, Anjanibhargavi Ragothaman<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, P. Thomas Fletcher<sup>2</sup>, Paul M. Thompson<sup>1</sup>, Gautam Prasad (2015). **Effects of EPI Distortion Correction Pipelines on the Connectome in Parkinson's Disease**, **submitted to SPIE**, Aug. 2015.
285. Anjanibhargavi Ragothaman, Conor Corbin, Julio E. Villalon-Reina, Justin Galvis, Adam Mezher, Christopher Ching, Shantanu H. Joshi, Paul M. Thompson, Gautam Prasad (2016). Optimizing Alignments of Diffusion Measures on Maximum Density Paths for Classification in Parkinson's Disease, **submitted to SPIE**, Aug. 2015.

### **ISBI 2016**

286. Wang Q, Zhan L, Thompson PM, Dodge HH, Zhou J (2016). DISCRIMINATIVE FUSION OF MULTIPLE BRAIN NETWORKS FOR EARLY MILD COGNITIVE IMPAIRMENT DETECTION, ISBI 2016, Prague, Czech Republic, in press.
287. Dennis EL, Babikian T, Alger JR, Villalon-Reina JE, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, Thompson PM (2016). Tract-Based Spectroscopy to Investigate Pediatric Brain Trauma, submitted to ISBI 2016, Prague, Czech Republic.
288. Zhu D, Jahanshad N, Riedel B, Zhan L, Faskowitz J, Prasad G, Thompson PM (2016). POPULATION LEARNING OF STRUCTURAL CONNECTIVITY BY WHITE MATTER ENCODING AND DECODING, submitted to ISBI 2016, Prague, Czech Republic.
289. Zhang W, Shi J, Stonnington C, Bauer RJ, Gutman BA, Chen K, Thompson PM, Reiman EM, Caselli RJ, Wang YL (2016). Morphometric Analysis of Hippocampus and Lateral Ventricle Reveals Regional Difference Between Cognitively Stable and Declining Persons, submitted to ISBI 2016, Prague, Czech Republic.
290. Zhang J, Stonnington C, Li Q, Shi J, Bauer RJ, Gutman BA, Chen K, Reiman EM, Thompson PM, Ye J, Wang YL (2016). APPLYING SPARSE CODING TO SURFACE MULTIVARIATE TENSOR-BASED MORPHOMETRY TO PREDICT FUTURE COGNITIVE DECLINE, submitted to ISBI 2016, Prague, Czech Republic.

291. Li Y, Wang J, Yang T, Chen J, Liu L, Zhan L, Hibar DP, Jahanshad N, Wang YL, Zhao D, Thompson PM, Ye J (2016). Identification of Alzheimer's disease risk factors by Tree-Structured Group LASSO Screening, ISBI 2016, Prague, Czech Republic.
292. Li Q, Yang T, Zhan L, Hibar DP, Jahanshad N, Ye J, Thompson PM, Wang J (2016). Large-scale Collaborative Genetic studies of Risk SNPs for Alzheimer's Disease across Multiple Institutions, submitted to ISBI 2016, Prague, Czech Republic.
293. Nir T, Zavaliangos-Petropulu A, Jahanshad N, Villalon-Reina JE, Zhan L, Leow AD, Bernstein MA, Jack, Jr CR, Weiner MW, Thompson PM (2016). DIFFUSION TENSOR DISTRIBUTION FUNCTION METRICS BOOST POWER TO DETECT DEFICITS IN ALZHEIMER'S DISEASE, ISBI 2016, Prague, Czech Republic.
294. Pizzagalli F, Auzias G, Kochunov P, Faskowitz JI, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Jahanshad N, Thompson PM (2016), GENETIC ANALYSIS OF CORTICAL SULCI IN 1,009 ADULTS, submitted to ISBI 2016, Prague, Czech Republic.
295. Moyer D, Gutman B, Jahanshad N, Nir T, Thompson PM (2016). Cluster Weighted Regressions for Connectome Analysis, ISBI 2016, Prague, Czech Republic.
296. Ching CRK, Gutman BA, Zavaliangos-Petropulu A, Sun D, Jonas RK, Lin A, Kushan L, van Amelsvoort T, Bakkar G, Kates WR, Campbell LE, McCabe K, Daly E, Gudbrandsen M, Murphy C, Murphy D, Craig M, Vorstman J, Graz L, Thompson PM, Bearden CE, for the ENIGMA-22q11.2 Working Group (2016). SUBCORTICAL SHAPE MAPS COMPLEMENT STANDARD VOLUMETRICS IN 22q11.2 DELETION AND DUPLICATION SYNDROME, submitted to ISBI 2016, Prague, Czech Republic.
297. Lorenzi M, Gutman B, Hibar DP, Altmann A, Jahanshad N, Thompson PM, Ourselin S (2016). Partial Least Squares Modelling for Imaging-genetics in Alzheimer's Disease: Plausibility and Generalization, ISBI 2016, Prague, Czech Republic.
298. Harrison M, Prasad G, Hafzalla G, Faskowitz J, Jahanshad N, McMahon K, de Zubicaray G, Wright M, Thompson PM (2016). OPTIMIZING THE DISCOVERY OF GENETICALLY INFLUENCED BRAIN CONNECTIVITY NETWORKS USING EPIC, submitted to ISBI 2016, Prague, Czech Republic.
299. Jin Y, Huang C, Daianu M, Zhan L, Zhu H, Thompson PM (2016). 3-D TRACT-SPECIFIC FUNCTIONAL ANALYSIS OF WHITE MATTER INTEGRITY IN ALZHEIMER'S DISEASE, submitted to ISBI 2016, Prague, Czech Republic.
300. Isaev D, Gutman B, Jahanshad N, Nir T, Thompson PM (2016). SURFACE-BASED CONNECTOME REGISTRATION VIA ITERATIVE SPECTRAL REFINEMENT, submitted to ISBI 2016, Prague, Czech Republic.
301. Ragothaman A, Villalon-Reina JE, Galvis J, Corbin C, Mezher A, Ching CRK, Joshi S, Thompson PM, Prasad G (2016). OPTIMIZING ALIGNMENTS OF DIFFUSION MEASURES ON MAXIMUM DENSITY PATHS FOR CLASSIFICATION IN PARKINSON'S DISEASE, submitted to ISBI 2016, Prague, Czech Republic.
- MICCAI 2016 (6 papers accepted)**
302. Q Li ..., Thompson PM, ... (2016). Large-scale Collaborative Imaging Genetics Studies of Risk Genetic Factors for Alzheimer's Disease Across Multiple Institutions, MICCAI 2016, accepted, May 2016, Athens, Greece.

303. Moyer D, Gutman BA, Jahanshad N, Faskowitz J, **Thompson PM** (2016). A Continuous Model of Cortical Connectivity, MICCAI 2016, Athens, Greece [also selected for platform talk].
304. Jie Zhang, ..., Thompson PM, Wang YL (2016). **Hyperbolic Space Sparse Coding with its Application on Prediction of Alzheimer's Disease in Mild Cognitive Impairment**, MICCAI 2016, accepted, May 2016, Athens, Greece.
305. Dennis EL et al. (2016). **Multi-modal Registration Improves Group Discrimination in Pediatric Traumatic Brain Injury**, MICCAI Brain Lesion Workshop, Athens, Greece, 2016, accepted, in press [also Platform Talk].
306. Vikash Gupta, Gautam Prasad, **Paul Thompson** (2016). A volumetric conformal mapping approach for clustering white matter fibers in the brain, MICCAI SESAMI Workshop, **Athens, Greece, 2016**.
307. Villalon JE, Gutman BA, Pasternak O, ..., **Thompson PM** (2016). Multichannel Diffusion MRI for Predicting Alzheimer's Disease with a TV-L1 prior, MICCAI CD-MRI Workshop, **Athens, Greece, 2016** [accepted, in press].
308. Rutger H.J. Fick, Madelaine Daianu, **Paul M. Thompson**, Terrence Town, and Rachid Deriche (2016). A Longitudinal Diffusion MRI Study of Transgenic Alzheimer Rats using Higher Order Models, submitted to MICCAI CD-MRI Workshop, **accepted, in press, Athens, Greece, 2016**.
- SIPAIM 2016 (Tandil, Argentina – all peer-reviewed, full-length papers; 9 papers accepted)**
309. Dajiang Zhu, Qingyang Li, Brandalyn C. Riedel, Neda Jahanshad, Derrek P. Hibar, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Matthew D. Sacchet, Ian H. Gotlib, Jieping Ye, Paul M. Thompson (2016). Large-scale classification of major depressive disorder via distributed Lasso, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].  
<http://dx.doi.org/10.1117/12.2256935>
310. Marco Lorenzi, Boris Gutman, Paul M. Thompson, Daniel C. Alexander, Sebastien Ourselin, and Andre Altmann (2016). Secure multivariate large-scale multi-centric analysis through on-line learning: An imaging genetics case study, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256799>
311. Dmitry Isaev, Boris A. Gutman, Daniel Moyer, Joshua Faskowitz, and Paul M. Thompson (2016). Cortical Connectome Registration Using Spherical Demons, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].  
<http://dx.doi.org/10.1117/12.2256975>
312. Fabrizio Pizzagalli, Guillaume Auzias, Peter Kochunov, Joshua I. Faskowitz, Paul M. Thompson, Neda Jahanshad (2016). The Core Genetic Network Underlying Sulcal Morphometry, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256959>
313. Marc B. Harrison, Brandalyn C. Riedel, Gautam Prasad, Joshua Faskowitz, Paul M. Thompson (2016). Using brain measures for large-scale classification of autism applying EPIC, SPIE 12th International

- Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256870>
314. Vikash Gupta, Gautam Prasad and Paul Thompson (2016). Clustering white matter fibers using support vector machines: A volumetric conformal mapping approach, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256974>
315. Dmitry Y. Isaev, Talia M. Nir, Neda Jahanshad, Julio E. Villalon-Reina, Liang Zhan, Alex D. Leow, Paul M. Thompson (2016). Improved Clinical Diffusion MRI Reliability using a Tensor Distribution Function compared to a Single Tensor, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2257281>
316. Artemis Zavaliangos-Petropulu, Emily L. Dennis, Greg Ver Steeg, Talin Babikian, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2016). Variable Clustering Reveals Associations between Subcortical Brain Volume and Cognitive Changes in Pediatric Traumatic Brain Injury, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256977>
317. Emily L. Dennis, Jeffrey R. Alger, Talin Babikian, Faisal Rashid, Julio E. Villalon-Reina, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2016). Tract-Based Spectroscopy To Investigate Pediatric Brain Trauma, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].
318. Juan S. Celis A. ; Nelson F. Velasco T. ; Julio E. Villalon-Reina ; Paul M. Thompson ; Eduardo Romero C. (2016). Bayesian super-resolution in brain diffusion weighted magnetic resonance imaging (DW-MRI), SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256918>.

### **Brain-KDD Conference 2016**

319. Zhang G, Kochunov P, Hong E, Jahanshad N, **Thompson PM**, Chen J (2016). ENIGMA-Viewer: Interactive Visualization Strategies for Conveying Effect Sizes in Meta-Analysis, submitted to BrainKDD: The 3rd International Workshop on Data Mining and Visualization for Brain Science (in conjunction with ACM Conference on Bioinformatics, Computational Biology, and Health Informatics – BCB16 - October 2 2016, Seattle, USA), accepted, in press.

### **IPMI 2017 (3 papers submitted)**

320. Greg Fleishman, Thomas Fletcher, Paul M. Thompson (2017). Symmetric Interleaved Geodesic Shooting in Diffeomorphisms, **IPMI 2017**, NC, USA.
321. Daniel Moyer, Boris A. Gutman, Neda Jahanshad, Paul M. Thompson (2017). A Restaurant Modulated Model for Connectivity Based Parcellation of the Cortex, **IPMI 2017**, NC, USA.

322.Jie Zhang\*, Qingyang Li\*, Richard J. Caselli, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Multi-Source Multi-Target Dictionary Learning for Prediction of Cognitive Decline, **IPMI 2017**, NC, USA.

**ISBI 2017** (13 papers submitted, and 3 more with other PIs)

323.Dajiang Zhu, Qingyang Li, Brandalyn C. Riedel, Neda Jahanshad, Derrek P. Hibar, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Matthew D. Sacchet, Ian H. Gotlib, Pedro Rosa, Geraldo Busatto Filho, Maristela S. Schaufelberger, Fabio L. S. Duran, Steven van der Werff, Nic van der Wee, Tony Yang, Tiffany Ho, Ben J. Harrison, Christopher G. Davey, Jieping Ye, Paul M. Thompson (2017). Multi-site Classification of Major Depressive Disorder Using Distributed LASSO, **ISBI 2017**, Melbourne, Australia, 2017.

324.Faisal M. Rashid, Emily L. Dennis, Julio E. Villalon-Reina, Yan Jin, David F. Tate, Jeffrey D. Lewis, Gerald E. York, Paul M. Thompson (2017). Examination of Cortico-thalamic Fiber Projections of U.S. Service Members with Mild Traumatic Brain Injury, **ISBI 2017**, Melbourne, Australia, 2017.

325.Vikash Gupta, Faisal M. Rashid, Ratnesh Kumar, Paul M. Thompson (2017). FiberNet: A Deep Learning Framework for Automatic Segmentation for White Matter Tracts in the Brain, **ISBI 2017**, Melbourne, Australia, 2017.

326.Greg M. Fleishman, Paul Thompson (2017). Adaptive Gradient Descent Optimization of Initial Momenta For Geodesic Shooting in Diffeomorphisms, **ISBI 2017**, Melbourne, Australia, 2017.

327.Greg M. Fleishman, Paul Thompson (2017). The Impact of Image Matching Functional on Atrophy Estimation with Geodesic Shooting in Diffeomorphisms, **ISBI 2017**, Melbourne, Australia, 2017.

328.Lauren E. Salminen, Rajendra Morey, Brandalyn C. Riedel, Marc Harrison, Dajiang Zhu, Neda Jahanshad, Emily L. Dennis, Paul M. Thompson (2017). Adaptive Network of Cortical and Subcortical Correlates of Early Life Stress and Posttraumatic Stress Disorder with EPIC, **ISBI 2017**, Melbourne, Australia, 2017.

329.Brandalyn Riedel, Neda Jahanshad, Paul Thompson (2017). Graph Theoretical Approaches Towards Understanding Differences in Frontoparietal and Default Mode Networks in Autism, **ISBI 2017**, Melbourne, Australia, 2017.

330.Brandalyn C. Riedel, Marc B. Harrison, Dajiang Zhu, Gautam Prasad, Neda Jahanshad, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Matthew D. Sacchet, Ian H. Gotlib, Pedro Rosa, Christopher G. Davey, Ben J. Harrison, Udo Dannlowski, Jair D. Soares, Benson Irungu, Paul M. Thompson (2017). Identifying Brain Measures for Large-scale Classification of Major Depressive Disorder using EPIC, **ISBI 2017**, Melbourne, Australia, 2017.

331.Dmitry Petrov, Boris Gutman, Alexander Ivanov, Joshua Faskowitz, Neda Jahanshad, Mikhail Belyaev, Paul Thompson (2017). Structural Connectome Validation Using Fingerprinting, **ISBI 2017**, Melbourne, Australia, 2017.

- 332.Emily L. Dennis, Faisal Rashid, Neda Jahanshad, Talin Babikian, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2017). A Network Approach to Examining Injury Severity in Pediatric TBI, **ISBI 2017**, Melbourne, Australia, 2017.
- 333.Emily L. Dennis, Faisal Rashid, Josh Faskowitz, Yan Jin, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Ian Hickie, Margaret J. Wright, Neda Jahanshad, Paul M. Thompson (2017). Mapping Age Effects Along Fiber Tracts in Young Adults, **ISBI 2017**, Melbourne, Australia, 2017.
- 334.Boris A. Gutman, Fabrizio Pizzagalli, Neda Jahanshad, Margaret J. Wright, Paul M. Thompson (2017). Approximating Principal Genetic Components of Subcortical Shape, **ISBI 2017**, Melbourne, Australia, 2017.
- 335.George W. Hafzalla, Anjanibhargavi Ragothaman, Joshua Faskowitz, Neda Jahanshad, Katie L. McMahon, Greig I. de Zubicaray, Margaret J. Wright, Meredith N. Braskie, Gautam Prasad, and Paul M. Thompson (2017). A Comparison of Network Definitions for Detecting Sex Differences in Brain Connectivity using Support Vector Machines, **ISBI 2017**, Melbourne, Australia, 2017.
- 336.Wen Zhang, Jie Shi, Jun Yu, Liang Zhan, Paul M. Thompson, Yalin Wang (2017). Enhancing Diffusion MRI Measures by Integrating Grey and White Matter Morphometry with Hyperbolic Wasserstein Distance, **ISBI 2017**, Melbourne, Australia, 2017.
- 337.Jie Zhang, Yonghui Fan, Qingyang Li, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Empowering Cortical Thickness Measures in Clinical Diagnosis of Alzheimer's Disease with Spherical Sparse Coding, **ISBI 2017**, Melbourne, Australia, 2017.
- 338.Benjamin S.C. Wade, Jing Sui, Stephanie Njau, Amber M. Leaver, Megha Vasvada, Boris A. Gutman, Paul M. Thompson, Randal Espinoza, Roger P. Woods, Christopher C. Abbott, Katherine L. Narr, Shantanu H. Joshi (2017). Data-driven Cluster Selection for Subcortical Shape and Cortical Thickness Predicts Recovery from Depressive Symptoms, **ISBI 2017**, Melbourne, Australia, 2017.

#### **KDD 2017 and IJCAI 2017**

- 339.Qi Wang, Mengying Sun, Liang Zhan, Paul Thompson, Shuiwang Ji, and Jiayu Zhou. 2017. Multi-Modality Disease Modeling via Collective Deep Matrix Factorization. In Proceedings of KDD 2017, Halifax, Canada.
- 340.Ayush Jaiswal, Dong Guo, Cauligi S. Raghavendra, Paul Thompson (2017). sBMRI-Net: Deep Representation Learning for Brain Structure, submitted to IJCAI 2017, Feb. 19 2017.

#### **MICCAI 2017 (7 papers accepted to main conference or workshops)**

- 341.Dajiang Zhu, Brandalyn C. Riedel, Neda Jahanshad, Nynke Groenewold, Dan Stein, Ian H. Gotlib, Danai Dima, James Cole, Cynthia H.Y. Fu, Henrik Walter, Ilya M. Veer, Thomas Frodl, Lianne Schmaal, Dick J. Veltman, Paul M. Thompson (2017). Classification of Major Depressive Disorder via Multi-Site Weighted LASSO Model, MICCAI 2017, accepted, in press.

342. Vikash Gupta, Sophia Thomopoulos, Faisal Rashid, Paul Thompson (2017). FiberNet: An ensemble deep learning framework for clustering white matter fibers in the brain, MICCAI 2017, accepted, in press.
343. Dmitry M **Petrov**, Alexander Ivanov, Joshua Faskowitz, Boris Gutman, Daniel Moyer, Julio Villalon, Neda Jahanshad, Paul **Thompson** (2017). Evaluating 35 Methods to Generate Structural Connectomes Using Pairwise Classification, MICCAI 2017, accepted, in press.
344. Anvar Kurmukov, Marina Ananyeva, Yulia Dodonova, Boris Gutman, Joshua Faskowitz, Neda Jahanshad, Paul Thompson, and Leonid Zhukov (2017). **Classifying phenotypes based on the community structure of human brain networks**, MICCAI GRAIL Workshop 2017, in press.
345. Mikhail Belyaev, Yulia Dodonova, Daria Belyaeva, Egor Krivov, Boris Gutman, Joshua Faskowitz, Neda Jahanshad, Paul Thompson (2017). Using Geometry of the Manifold of Symmetric Positive Semidefinite Matrices to Classify Structural Brain Networks, MICCAI 2017, submitted.
346. Jie Zhang, Yanshuai Tu, Qingyang Li, Richard J. Caselli, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Multi-task Feature Selection Sparse Coding for Predicting Future Clinical Scores using Longitudinal Cortical Thickness Measures, MICCAI 2017, submitted.
347. Zhipeng Ding<sup>1</sup>, Greg Fleishman<sup>3,4</sup>, Xiao Yang<sup>1</sup>, Paul Thompson<sup>3</sup>, Roland Kwitt<sup>4</sup>, Marc Niethammer<sup>1,2</sup>, The Alzheimer's Disease Neuroimaging Initiative (2017). Fast Predictive Simple Geodesic Regression, **MICCAI** DLMIA (Deep Learning in Medical Image Analysis) workshop, accepted, Sept. 2017.

### **MICCAI MLMI 2017**

348. Moyer DC, Gutman BA, Jahanshad N, Thompson PM (2017). **Product Space Decompositions for Continuous Representations of Brain Connectivity**, **MICCAI MLMI 2017** workshop, June 2017.
349. Dmitry M Petrov, Boris A. Gutman, Shih-Hua (Julie) Yu, Theo G. M. van Erp, Jessica A. Turner, Lianne Schmaal, Dick Veltman, Lei Wang, Kathryn Alpert, Dmitry Isaev, Artemis Zavaliangos-Petropulu, Christopher R. K. Ching, Vince Calhoun, David Glahn, Ted Sattertwate, Ole Andreas Andreasen, Stefan Borgwardt, Fleur Howells, Nynke Groenewold, Aristotle Voineskos, Joaquim Radua, Steven G. Potkin, Benedicto Crespo-Facorro, Diana Tordesillas-Gutierrez, Li Shen, Irina Lebedeva, Gianfranco Spalletta, Gary Donohoe, Peter Kochunov, Pedro G. P. Rosa, Anthony James, Udo Dannlowski, Bernhardt T. Baune, Andre Aleman, Ian H. Gotlib, Henrik Walter, Martin Walter, Jair C. Soares, Ruben C. Gur, N. Trung Doan, Ingrid Agartz, Lars T. Westlye, Fabienne Harrisberger, Anita Riecher-Rössler, Anne Uhlmann, Dan J. Stein, Erin W. Dickie, Edith Pomarol-Clotet, Paola Fuentes-Claramonte, Erick Jotge Canales-Rodriguez, Raymond Salvador, Alexander J. Huang, Roberto Roiz-Santianez, Shan Cong, Alexander Tomyshev, Fabrizio Piras, Daniela Vecchio, Nerisa Banaj, Valentina Ciullo, Elliot Hong, Geraldo Busatto, Marcus V. Zanetti, Mauricio H. Serpa, Simon Cervenka, Sinead Kelly, Dominik Grotegerd, Matthew D. Sacchet, Ilya M. Veer, Meng Li, Mon-Ju Wu, Benson Irungu, Paul M. Thompson (2017). Machine Learning for Large-Scale Quality Control of 3D Shape Models in Neuroimaging, biorXiv, July 2017 - <http://www.biorxiv.org/content/early/2017/07/21/166496>



### SIPAIM 2017 (3 papers)

350. Faisal M. Rashid<sup>\*a</sup>, Emily L. Dennis<sup>a</sup>, Julio E. Villalon-Reina<sup>a</sup>, Yan Jin<sup>a</sup>, Jeffrey D. Lewis<sup>b</sup>, Gerald E. York<sup>c</sup>, Paul M. Thompson<sup>a,d</sup>, David F. Tate (2017). Examination of corticothalamic fiber projections in United States service members with mild traumatic brain injury, **SIPAIM 2017**, in press.
351. Emily L. Dennis<sup>1</sup>, Faisal Rashid<sup>1</sup>, Talin Babikian<sup>2,6</sup>, Richard Mink<sup>3</sup>, Christopher Babbitt<sup>4</sup>, Jeffrey Johnson<sup>5</sup>, Christopher C. Giza<sup>6</sup>, Robert F. Asarnow<sup>2,7</sup>, Paul M. Thompson<sup>1,2,8</sup> (2017). **Altered Network Topology in Pediatric Traumatic Brain Injury**, **SIPAIM 2017**, in press.
352. Mark S. Shiroishi<sup>1,2,3\*#</sup>, Vikash Gupta<sup>1#†</sup>, Bavrina Bigjahan<sup>2</sup>, Steven Y. Cen<sup>2</sup>, Faisal Rashid<sup>1†</sup>, Darryl Hwang<sup>2</sup>, Alexander Lerner<sup>2</sup>, Orest B. Boyko<sup>2</sup>, Chia-Shang Jason Liu<sup>1</sup>, Meng Law<sup>2</sup>, Paul M. Thompson<sup>1†</sup>, Neda Jahanshad<sup>1†</sup> (2017). **Brain cortical structural differences between non-central nervous system cancer patients treated with and without chemotherapy compared to non-cancer controls: a cross-sectional pilot MRI study using clinically-indicated scans**, **SIPAIM 2017**, in press.

### PSB 2018

353. Bhim M. Adhikari<sup>\*</sup>, Neda Jahanshad<sup>\*</sup>, Dinesh Shukla, David Glahn, Richard C. Reynolds, Robert W. Cox, Els Fieremans, Jelle Veraart, Dmitry S. Novikov, L. Elliot Hong, Paul M. Thompson, Peter Kochunov (2018). **Heritability estimates on resting state fMRI data using the ENIGMA analysis pipeline**, **PSB 2018**.
354. Yang Q, Roshchupkin G, Niessen W, Medland SE, Zhu A, Thompson PM, Jahanshad N (2017). A Fast, Accurate Two-Step Linear Mixed Model approach for Genetic Analysis applied to Repeat MRI measurements from the UK Biobank, **submitted to PSB 2018, Aug. 15 2017**.
355. MiHyun Jang, Tejal Patted, Yolanda Gil, Daniel Garijo, Varun Ratnakar, Jie Ji, Prince Wang, Agnes McMahon, Paul M. Thompson, and Neda Jahanshad (2017). Towards **Automatic Generation of Portions of Scientific Papers for Large Multi-Institutional Collaborations based on Semantic Metadata**, International Semantic Web Conference (ISWC), in press.
356. Nikita Mokrov, Maxim Panov, Boris A. Gutman, Joshua I. Faskowitz, Neda Jahanshad and Paul M. Thompson (2017). **Simultaneous Matrix Diagonalization for Structural Brain Networks Classification**, Complex Networks 2017, Lyon, France, submitted, Sept. 17 2017.

### ISBI 2018 (3 papers accepted)

357. Jie Zhang<sup>\*</sup>, Qingyang Li, Richard Caselli, Paul Thompson, Jieping Ye, Yalin Wang (2018). Transferring Knowledge from ImageNet to Alzheimer's Disease by Deep Multi-ROI Learning, **submitted to ISBI 2018**.
358. Jie Zhang<sup>\*</sup>, Yanshuai Tu, Qingyang Li, Richard Caselli, Paul Thompson, Jieping Ye, Yalin Wang (2018). Multi-Task Sparse Screening for Predicting Future Clinical Scores using Longitudinal Cortical Thickness Measures, **ISBI 2018**.
359. Emily Dennis<sup>\*</sup>, Elisabeth Wilde, Randall Scheibel, Maya Troyanskaya, Carmen Velez, Benjamin Wade, Ann Marie Drennon, Gerald E. York, Erin D. Bigler, Tracy Abildskov, Brian Taylor, Carlos Jaramillo, Blessen Eapen, Heather Belanger, Mary Newsom, Harvey Levin, Sidney Hinds, William Walker, Paul

- Thompson, David Tate (2018). ENIGMA Military Brain Injury: A Coordinated Meta-Analysis of Diffusion MRI from Multiple Cohorts, ISBI 2018, April 2018.
360. Vikash Gupta\*, Sophia I Thomopoulos, Conor Corbin, Faisal Rashid, Paul Thompson (2018). FiberNet 2.0: An automatic neural network based tool for clustering white matter fibers in the brain, ISBI 2018.
361. Conor Corbin\*, Vikash Gupta, Julio Villalon-Reina, Talia M. Nir, Faisal Rashid, Sophia I Thomopoulos, Neda Jahanshad, Paul Thompson (2018). White Matter Alterations Mapped in Parkinson's Disease Using Tractometry, submitted to ISBI 2018.
362. Tao Yang, **Paul M. Thompson**, Jieping Ye, Sihai Zhao (2018). Identifying Genetic Risk Factors via Sparse Group Lasso with Group Graph Structure, submitted to IJCAI-ECAI-2018, Jan. 15 2018.
- MICCAI 2018**
363. Moyer DC, ver Steeg G, Thompson PM (2018). **Parcellation-Free Analysis of Brain Connectivity**, submitted to MICCAI 2018, March 2 2018.
364. Ayush Jaiswal, Dong Guo, Cauligi S. Raghavendra, Paul Thompson (2018). Large-Scale Unsupervised Deep Representation Learning for Brain Structure, **submitted to MICCAI 2018, March 2 2018.**
365. Nir TM, Lam HY, Ananworanich J, Boban J, Brew BJ, Cysique L, Fouche JP, Kuhn T, Porges ES, Law M, Paul R, Thames A, Woods AJ, Valcour VG, Thompson PM, Cohen RA, Stein DJ, Jahanshad N, for the ENIGMA-HIV Working Group (2018). Effects of diffusion MRI model and harmonization on the consistency of findings in an international multi-cohort HIV neuroimaging study. *2018 MICCAI Workshop on Computational Diffusion MRI (CDMRI) (full peer-reviewed paper), Granada, Spain 2018.*
366. Moyer DC, **Thompson PM**, ver Steeg G (2018). Measures of Tractography Convergence, MICCAI CDMRI Workshop 2018, **Granada, Spain**. [Also awarded best Oral Talk of CDMRI].
367. Alyssa H. Zhu, Daniel C. Moyer, Talia M. Nir, Paul M. Thompson, Neda Jahanshad (2018). **Challenges and opportunities in diffusion MRI data harmonization**, invited review paper for the MICCAI CDMRI Workshop, Granada, Spain, 2018.
368. Dmitry M Petrov, Boris A. Gutman, Shih-Hua (Julie) Yu, Theo G. M. van Erp, Jessica A. Turner, Lianne Schmaal, Dick Veltman, Lei Wang, Kathryn Alpert, Dmitry Isaev, Artemis Zavaliangos-Petropulu, Christopher R. K. Ching, Vince Calhoun, David Glahn, Ted Sattertwate, Ole Andreas Andreasen, Stefan Borgwardt, Fleur Howells, Nynke Groenewold, Aristotle Voineskos, Joaquim Radua, Steven G. Potkin, Benedicto Crespo-Facorro, Diana Tordesillas-Gutierrez, Li Shen, Irina Lebedeva, Gianfranco Spalletta, Gary Donohoe, Peter Kochunov, Pedro G. P. Rosa, Anthony James, Udo Dannlowski, Bernhardt T. Baune, Andre Aleman, Ian H. Gotlib, Henrik Walter, Martin Walter, Jair C. Soares, Ruben C. Gur, N.

Trung Doan, Ingrid Agartz, Lars T. Westlye, Fabienne Harrisberger, Anita Riecher-Rössler, Anne Uhlmann, Dan J. Stein, Erin W. Dickie, Edith Pomarol-Clotet, Paola Fuentes-Claramonte, Erick Jotge Canales-Rodriguez, Raymond Salvador, Alexander J. Huang, Roberto Roiz-Santianez, Shan Cong, Alexander Tomyshev, Fabrizio Piras, Daniela Vecchio, Nerisa Banaj, Valentina Ciullo, Elliot Hong, Geraldo Busatto, Marcus V. Zanetti, Mauricio H. Serpa, Simon Cervenka, Sinead Kelly, Dominik Grotegerd, Matthew D. Sacchet, Ilya M. Veer, Meng Li, Mon-Ju Wu, Benson Irungu, **Paul M. Thompson** (2018). Deep Learning for Quality Control of Subcortical Brain 3D Shape Models, **MICCAI MLMI 2018** (Machine Learning in Medical Imaging) Sept. 2018, **Granada, Spain**.

#### **SIPAIM 2018 (7 papers accepted)**

- 369.Emily L. Dennis, Karen Caeyenberghs, Talin Babikian, Alexander Olsen, Gerri Hanten, Christopher C. Giza, Robert F. Asarnow, Harvey Levin, Peter Kochunov, Neda Jahanshad, **Paul M. Thompson**, David Tate, Elisabeth Wilde (2018). **ENIGMA Pediatric mTBI: Preliminary Results from Meta-Analysis of Diffusion MRI**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 370.Artemis Zavaliangos-Petropulu, Talia M. Nir, Sophia I. Thomopoulos, Neda Jahanshad, Robert I. Reid, Matthew A. Bernstein, Bret Borowski, Clifford R. Jack, Jr., Michael W. Weiner, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* (2018). **Ranking Diffusion Tensor Measures of Brain Aging & Alzheimer's Disease**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 371.Alyssa Zhu, Arvin Saremi, Ricardo Pires, Armand Amini, **Paul M. Thompson**, Neda Jahanshad\* (2018). **ROBUST AUTOMATIC CORPUS CALLOSUM ANALYSIS TOOLKIT: MAPPING CALLOSAL DEVELOPMENT ACROSS HETEROGENEOUS MULTISITE DATA**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 372.Fabrizio Pizzagalli, Guillaume Auzias, Armand Amini, Joshua Faskowitz, Faisal Rashid, Dan Moyer, Peter Kochunov, Denis Rivière, Jean-François Mangin, **Paul M. Thompson**, Neda Jahanshad (2018). **Sulcal-based morphometry in Parkinson's disease: A study of reliability and disease effects**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 373.Fabian W. Corlier, Daniel Moyer, Meredith N. Braskie, **Paul M. Thompson**, Guillaume Dorothee, Marie Claude Potier, Marie Sarazin, Michel Botlaender, Julien Lagarde (2018). **Automatic classification of cortical thickness patterns in Alzheimer's disease patients, using the Louvain modularity clustering method**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 374.Linda Ding, Alyssa Zhu, Arvin Saremi, Joshua Faskowitz, Asta Haberg, **Paul M. Thompson**, Neda Jahanshad\* (2018). **VOXELWISE META-ANALYSIS OF BRAIN STRUCTURAL ASSOCIATIONS WITH GENOME-WIDE POLYGENIC RISK FOR ALZHEIMER'S DISEASE**, SIPAIM 2018, Mazatlan, Mexico, Oct. 2018.

#### **ISBI 2019**

- 375.Emily L. Dennis<sup>1,2,3,4</sup>, Ananya Singh<sup>3</sup>, Conor K. Corbin<sup>3,5</sup>, Neda Jahanshad<sup>3</sup>, Tiffany C. Ho<sup>2</sup>, Lucy S. King<sup>2</sup>, Kathryn L. Humphreys<sup>2,6</sup>, Paul M. Thompson<sup>3,7</sup>, Ian H. Gotlib (2019). **ASSOCIATIONS BETWEEN MATERNAL DEPRESSION AND INFANT FRONTO-LIMBIC**

**CONNECTIVITY: A PRELIMINARY MULTI-SHELL DIFFUSION MRI STUDY, ISBI 2019, accepted, Dec. 18 2018.**

376.Santiago Silva, Boris A. Gutman, Eduardo Romero, **Paul M. Thompson**, Andre Altmann, Marco Lorenzi, for ADNI, PPMI, and UK Biobank (2019). FEDERATED LEARNING IN DISTRIBUTED MEDICAL DATABASES: META-ANALYSIS OF LARGE-SCALE BRAIN IMAGING DATA, **ISBI 2019, accepted, Dec. 2018.**

377.Talia M. Nir<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Artemis Zavaliangos-Petropulu<sup>1</sup>, Robert I. Reid<sup>2</sup>, Matt A. Bernstein<sup>3</sup>, Bret Borowski<sup>3</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4</sup>, Neda Jahanshad<sup>1</sup>, Paul M. Thompson<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2019). **MULTI-SHELL DIFFUSION MRI MEASURES OF BRAIN AGING: A PRELIMINARY COMPARISON FROM ADNI3, ISBI 2019.**

#### **IPMI 2019**

378.Li Wang, Paul M. Thompson, Dajiang Zhu (2019). **Analyzing Mild Cognitive Impairment Progression via Multi-View Structural Learning, accepted for IPMI 2019, in press.**

379.Yalin Wang, Paul M. Thompson et al. (2019). Multimodal Brain Image Fusion By Harmonic Maps under a Designed Riemannian Metric, **accepted for IPMI 2019, in press.**

380.Daniel C. Moyer, Greg ver Steeg, Chantal Tax, Paul M. Thompson (2019). Scanner Invariant Representations, **submitted to IPMI 2019, Dec. 13 2019.**

381.Qunxi Dong, Jie Zhang, Qingyang Li, Paul Thompson, Richard Caselli, Jieping Ye and Yalin Wang (2019). Multi-task Dictionary Learning based Convolutional Neural Networks, submitted to **IJCAI-HBAI 2019.**

#### **MICCAI 2019**

382.Zhang Y, Zhan L, Cai W, **Thompson PM**, Huang H (2019). Integrating Heterogeneous Brain Networks for Predicting Brain Disease Conditions, Medical Image Computing and Computer Assisted Interventions (**MICCAI**) 2019.

383.Qifan Yang<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Linda Ding<sup>1</sup>, Wesley Surento<sup>1</sup>, Paul M. Thompson<sup>1</sup> and Neda Jahanshad<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2019). **Support Vector based Autoregressive Mixed Models of Longitudinal Brain Changes and Corresponding Genetics in Alzheimer's Disease, MICCAI PRIME Workshop, Shenzhen, China, Oct. 2019.**

#### **ISBI 2020**

384.Lam P, Zhu A, Salminen L, Jahanshad N, **Thompson PM** (2020). Predicting Brain Age from Structural MRI using Deep Learning and Information Theoretic Divergence Measures, submitted to **ISBI 2020, Iowa City, IA, USA, 2020.**

385.Mohammad Farazi, Liang Zhan, Natasha Lepore, **Paul M. Thompson**, Yalin Wang. A Univariate Persistent brain network Feature based on the aggregated cost of cycles from the nested filtration network, **ISBI 2020, Iowa City, IA, USA, 2020, accepted.**

## KDD Conference 2020

386. Qi Wang, Liang Zhan, Paul M. Thompson, Jiayu Zhou (2020). Multimodal Learning with Incomplete Modalities by Knowledge Distillation, **KDD 2020**, accepted May 16, 2020.

## MICCAI 2020

387. Wang YL, Thompson PM, ..., Zhan L (2020). Deep Representation Learning For Multimodal Brain Networks, **MICCAI 2020**, accepted.
388. Ling-Li Zeng<sup>a, b</sup>, Christopher R. K. Ching<sup>b</sup>, Zvart Abaryan<sup>b</sup>, Sophia I. Thomopoulos<sup>b</sup>, Kai Gao<sup>a</sup>, Alyssa H. Zhu<sup>b</sup>, Anjanibhargavi Ragothaman<sup>b</sup>, Faisal Rashid<sup>b</sup>, Marc Harrison<sup>b</sup>, Lauren E. Salminen<sup>b</sup>, Brandalyn C. Riedel<sup>b</sup>, Neda Jahanshad<sup>b</sup>, Dewen Hu<sup>a</sup>, **Paul M. Thompson** (2020). A Deep Transfer Learning Framework for 3D Brain Imaging based Optimal Mass Transport, **MICCAI Workshop (peer-reviewed) on Machine Learning in Clinical Neuroimaging (MLCN 2020)**, accepted, August 2020.

## SIPAIM 2020 Conference (5 papers)

389. Pradeep K. Lam, Vigneshwaran Santhalingam, Parth Suresh, Rahul Baboota, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, **Paul M. Thompson** (2020). Accurate Brain Age Prediction Using Recurrent Slice-Based Networks, **SIPAIM 2020**, Sept. 2020.
390. Katherine E. Lawrence\*, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, **Paul M. Thompson** (2020). Advanced diffusion-weighted MRI metrics detect sex differences in aging among 15,000 adults in the UK Biobank, **SIPAIM 2020**, Sept. 2020.
391. Leila Nabulsi<sup>a\*</sup>, Katherine E. Lawrence<sup>a</sup>, Vigneshwaran Santhalingam<sup>a</sup>, Zvart Abaryan<sup>a</sup>, Christina P. Boyle<sup>a</sup>, Julio E. Villalon-Reina<sup>a</sup>, Talia M. Nir<sup>a</sup>, Iyad Ba Gari<sup>a</sup>, Alyssa H. Zhu<sup>a</sup>, Elizabeth Haddad<sup>a</sup>, Alexandra M. Muir<sup>a</sup>, Neda Jahanshad<sup>a</sup>, and **Paul M. Thompson** (2020). Exogenous Sex Hormone Effects on Brain Microstructure in Women: A Diffusion MRI study in the UK Biobank, **SIPAIM 2020**, Sept. 2020.
392. Christopher R. K. Ching<sup>1</sup>, Zvart Abaryan<sup>1</sup>, Vigneshwaran Santhalingam<sup>1</sup>, Alyssa H. Zhu<sup>1</sup>, Joanna K. Bright<sup>1</sup>, Neda Jahanshad<sup>1</sup>, **Paul M. Thompson** (2020). Sex-Dependent Age Trajectories of Subcortical Brain Structures: Analysis of Large-Scale Percentile Models and Shape Morphometry, **SIPAIM 2020**, Sept. 2020.
393. Ling-Li Zeng<sup>a, b</sup>, Christopher R. K. Ching<sup>b</sup>, Zvart Abaryan<sup>b</sup>, Sophia I. Thomopoulos<sup>b</sup>, Kai Gao<sup>a</sup>, Alyssa H. Zhu<sup>b</sup>, Anjanibhargavi Ragothaman<sup>b</sup>, Faisal Rashid<sup>b</sup>, Marc Harrison<sup>b</sup>, Lauren E. Salminen<sup>b</sup>, Brandalyn C. Riedel<sup>b</sup>, Neda Jahanshad<sup>b</sup>, Dewen Hu<sup>a</sup>, **Paul M. Thompson**<sup>b</sup>. Hata! Yer işareti tanımlanmamış. (2020). Deep Transfer Learning of Brain Shape Morphometry Predicts Body Mass Index (BMI) in the UK Biobank, **SIPAIM 2020**, Sept. 2020.

## ISBI 2021

394. Pradeep Lam, Alyssa H. Zhu, Iyad Ba Gari, Neda Jahanshad, Paul M. Thompson (2021). 3D GRID-ATTENTION NETWORKS FOR INTERPRETABLE AGE AND ALZHEIMER'S DISEASE PREDICTION FROM STRUCTURAL MRI, submitted to **ISBI 2021**, Oct. 2020.
395. Dimitris Stripelis, José Luis Ambite, Pradeep Lam, Paul Thompson (2021). SCALING NEUROSCIENCE RESEARCH USING FEDERATED LEARNING, **ISBI 2021**.
396. Umang Gupta, Pradeep K. Lam, Greg Ver Steeg, Paul M. Thompson (2021). IMPROVED BRAIN AGE ESTIMATION WITH SLICE-BASED SET NETWORKS, **ISBI 2021**.
397. Eleonora Ficiarà, Valentino Crespi, Shruti Prashant Gadewar, Sophia I. Thomopoulos, Joshua Boyd, Paul M. Thompson, Neda Jahanshad, Fabrizio Pizzagalli, and the Alzheimer's Disease Neuroimaging Initiative (2021). Predicting Progression from Mild Cognitive Impairment to Alzheimer's Disease using MRI-based Cortical Features and a Two-State Markov Model, **ISBI 2021**.
398. Elizabeth Haddad, Fabrizio Pizzagalli, Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). SOFTWARE UPGRADES IN NEUROIMAGING: EVALUATING COMPATIBILITY OF BRAIN METRICS ACROSS THREE FREESURFER VERSIONS, submitted to **ISBI 2021**, Oct. 2020.
399. Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). AGE-RELATED HETEROCHRONICITY OF BRAIN MORPHOMETRY MAY BIAS VOXELWISE FINDINGS, **ISBI 2021**.
400. Shruti P. Gadewar\*, Alyssa Zhu, Zhuocheng Li, Sophia I Thomopoulos, Iyad Ba Gari, Piyush Maiti, Paul Thompson, Neda Jahanshad (2021). REGION SPECIFIC AUTOMATIC QUALITY ASSURANCE FOR MRI-DERIVED CORTICAL SEGMENTATIONS, submitted to **ISBI 2021**, Oct. 2020.

#### **IPMI 2021**

401. Yanfu Zhang, Liang Zhan, Hiroko Dodge, Paul M. Thompson, Heng Huang (2021). Neurodegenerative Disease Prediction via Transferable Deep Networks, submitted to **MICCAI 2021**, March 2021.
402. Yanfu Zhang, Liang Zhan, Paul Thompson, Heng Huang. Learning Representations from Multi-View Brain Connectomes with Disentanglement and Proportionality, submitted to **MICCAI 2021**, March 2021.
403. Yanfu Zhang, Liang Zhan, Paul Thompson, Heng Huang. Brain Image Synthesis Using Incomplete Multimodal Data via Attention-Redistribution Network, submitted to **MICCAI 2021**, March 2021.

#### **MIDL 2021**

404. Gupta U, Stripelis D, Lam PK, Thompson PM, Ambite JL, ver Steeg G (2021). Membership Inference Attacks on Deep Regression Models for Neuroimaging, **MIDL 2021**.

#### **EMBC 2021**

405. Zhangsihao Yang, Jianfeng Wu, Paul M. Thompson, Yalin Wang (2021). Deep Learning on SDF for Classifying Brain Biomarkers, **EMBC 2021** (3rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society October 31 – November 4, 2021).

#### **SIPAIM21 (5 papers) - November 17-19 2021, Campinas, Brazil / online:**

- 406.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Weintraub D, Cook P, McMillan C, Thompson PM (2021). Parkinson's disease classification using 3D convolutional neural networks and random forest methods, Society for Neuroscience (SFN) Annual Meeting, 2021. Proceedings Volume 12088, Proc. SPIE 12088, 17th International Symposium on Medical Information Processing and Analysis, 120880W (10 December 2021) <https://doi.org/10.1117/12.2606297>
- 407.Sinha S, Thomopoulos SI, Lam P, Muir A, Thompson PM (2021). Alzheimer's Disease Classification Accuracy is Improved by MRI Harmonization based on Attention-Guided Generative Adversarial Networks. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 120880L (2021) <https://doi.org/10.1117/12.2606155>
- 408.Stripelis D, Saleem H, Ghai T, Dhinagar N, Gupta U, Anastasiou C, Ver Steeg G, Ravi S, Naveed M, Thompson PM, Ambite JL (2021). Secure Neuroimaging Analysis using Federated Learning with Homomorphic Encryption. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 1208814 (2021) <https://doi.org/10.1117/12.2606256>
- 409.Thomopoulos SI, Nir TM, Villalon-Reina JE, Zavaliangos-Petropulu A, Maiti P, Zheng H, Nourollahimoghdam E, Jahanshad N, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (2021). Diffusion MRI metrics and their relation to dementia severity: Effects of harmonization approaches. Proc. SPIE 12088, 17th International Symposium on Medical Information Processing and Analysis, 120880K (10 December 2021); <https://doi.org/10.1117/12.2606337>.
- 410.Wu J, Zhu W, Su Y, Gui J, Lepore N, Reiman EM, Caselli RJ, Thompson PM, Chen K, Wang Y (2021). Predicting Tau Measurements with Multivariate Morphometry Statistics, Sparse Coding, and Correntropy. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 120880O (2021) <https://doi.org/10.1117/12.2607169>

### PSB 2022 Conference (5 papers)

- 411.Talia M. Nir\*, Alyssa H. Zhu\*, Iyad Ba Gari, Daniel Dixon, Tasfiya Islam, Julio E. Villalon-Reina, Sarah E. Medland, **Paul M. Thompson**, Neda Jahanshad (2022). Effects of ApoE4 and ApoE2 genotypes on subcortical magnetic susceptibility and microstructure measures in 27,500 participants from the UK Biobank, **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 412.Jingxuan Bao<sup>1\*</sup>, Zixuan Wen<sup>1\*</sup>, Mansu Kim<sup>1</sup>, Xiwen Zhao<sup>2</sup>, Brian N. Lee<sup>1</sup>, Sang-Hyuk Jung<sup>1</sup>, Christos Davatzikos<sup>3</sup>, Andrew J. Saykin, **Paul M. Thompson**, Dokyoon Kim<sup>1</sup>, Yize Zhao<sup>2</sup>, Li Shen<sup>1,†</sup>, and for the Alzheimer's Disease Neuroimaging Initiative (2022). Identifying highly heritable brain amyloid phenotypes through mining Alzheimer's imaging and sequencing biobank data, submitted to **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 413.Jingxuan Bao<sup>1\*</sup>, Zixuan Wen<sup>1\*</sup>, Mansu Kim<sup>1</sup>, Andrew J. Saykin<sup>2</sup>, **Paul M. Thompson**<sup>3</sup>, Yize Zhao<sup>4</sup>, Li Shen<sup>1†</sup>, and for the Alzheimer's Disease Neuroimaging Initiative (2022). Identifying imaging genetic associations via regional morphometricity estimation, submitted to **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 414.Peter Kochunov PhD<sup>\*1</sup>, Yizhou Ma PhD<sup>\*1</sup>, Mark D. Kvarata MD, PhD<sup>1</sup>, Kathryn S. Hatch BS<sup>1</sup>, Lianne Schmaal<sup>2,3</sup>, Neda Jahanshad PhD<sup>4</sup>, **Paul M. Thompson PhD**<sup>4</sup>, Bhim M. Adhikari PhD<sup>1</sup>, Heather Bruce MD<sup>1</sup>, Joshua Chiappelli MD<sup>1</sup>, Andrew Van der vaart MD, PhD<sup>1</sup>, Eric L. Goldwaser DO, PhD<sup>1</sup>, Aris Sotiras PhD<sup>3</sup>, Tianzhou Ma<sup>5</sup>, Shuo Chen, PhD<sup>1</sup>, Thomas E. Nichols PhD<sup>6</sup>, L. Elliot Hong MD (2022). Separating Clinical and Subclinical Depression by Big Data Informed Structural Vulnerability Index

and Its impact on Cognition: ENIGMA Dot Product, **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.

415. Peter Kochunov, Li Shen, John Darrell van Horn, **Paul M. Thompson** (2022). Big Data Imaging Genomics, Pacific Symposium on Biocomputing 27:68-72(2022), [http://psb.stanford.edu/psb-online/proceedings/psb22/intro\\_bigdata.pdf](http://psb.stanford.edu/psb-online/proceedings/psb22/intro_bigdata.pdf)

**ISBI 2022 (2 papers accepted)**

416. Haoteng Tang, Lei Guo, Xiyao Fu, Benjamin Qu, Paul M. Thompson, Heng Huang, Liang Zhan (2022). HIERARCHICAL BRAIN EMBEDDING USING EXPLAINABLE GRAPH LEARNING, **ISBI 2022, Kolkata, India, accepted.**
417. Wu J, Su Y, Thompson PM, Reiman EM, Caselli RJ, Chen K, Wang Y, for the Alzheimer's Disease Neuroimaging Initiative (2022). Predicting brain amyloidosis with plasma  $\beta$ -amyloid42/40 and MRI-based morphometry features, **ISBI 2022**, ITC Royal Bengal, Kolkata, India.
418. Jianfeng Wu BS1, Yanxi Chen MS1, Panwen Wang PhD2, Richard J Caselli MD3, Paul M Thompson PhD4, Junwen Wang PhD2#, Yalin Wang PhD1#, for the Alzheimer's Disease Neuroimaging Initiative\* (2022). *Investigating the effect of tau deposition and APOE on hippocampal morphometry in Alzheimer's disease: A federated Chow test model*, submitted to **ISBI 2022, Kolkata, India, accepted.**
419. Surabhi Sinha, Sophia I. Thomopoulos, Alexandra Muir, Pradeep Lam, Paul Thompson (2022). IMPROVING ALZHEIMER'S DISEASE CLASSIFICATION USING ATTENTION-GUIDED NEURAL NETWORKS AND MRI DOMAIN ADAPTATION, submitted to **ISBI 2022, Kolkata, India.**

**EMBC 2022 (1 paper) - July 11-15 2022, Glasgow, Scotland, UK:**

420. Chandio BQ, Chattopadhyay T, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Garyfallidis E, Thompson PM (2022). FiberNeat: Unsupervised White Matter Tract Filtering. **EMBC 2022, Glasgow, Scotland, UK.**

**MICCAI 2022 (4 papers accepted) – Singapore**

421. Julio E. Villalón-Reina<sup>1</sup>, Clara A. Moreau<sup>2</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Simons Variation in Individuals Project Consortium, Anne Maillard<sup>3</sup>, David Romascano<sup>3</sup>, Bogdan Draganski<sup>4,5</sup>, Sarah Lippé<sup>6</sup>, Carrie E. Bearden<sup>7</sup>, Seyed Mostafa Kia<sup>8,9</sup>, Andre F. Marquand<sup>9</sup>, Sebastien Jacquemont<sup>10</sup>, Paul M. Thompson<sup>1</sup> (2022). **Multi-site Normative Modeling of Diffusion Tensor Imaging Metrics Using Hierarchical Bayesian Regression, MICCAI 2022, Sept 18-22, 2022, Singapore.**
422. Chongyue Zhao, Liang Zhan, **Paul M. Thompson**, and Heng Huang (2022). Explainable Contrastive Multiview Graph Representation of Brain, Mind, and Behavior, **MICCAI 2022, Sept 18-22, 2022, Singapore.**
423. Chongyue Zhao, Liang Zhan, **Paul M. Thompson**, and Heng Huang (2022). Explainable Predicting Spatio-Temporal Human Brain Response Using fMRI, **MICCAI 2022, Sept 18-22, 2022, Singapore.**



424. Chongyue Zhao, Liang Zhan, **Paul M. Thompson**, and Heng Huang (2022). Revealing Continuous Brain Dynamical Organization with Multimodal Graph Transformer, **MICCAI 2022, Sept 18-22, 2022, Singapore**.

#### **MICCAI Workshops 2022 (Full Peer-Reviewed Papers)**

425. Talia M. Nir, Julio E. Villalon, **Paul M. Thompson**, Neda Jahanshad (2022). The impact of susceptibility distortion correction protocols on adolescent diffusion MRI measures, submitted to the **MICCAI CDMRI Workshop**, July 2, 2022, conditionally accepted.

426. Y. Zhao, Max Laansma, Eva van Heese, Conor Owens-Walton, ..., Neda Jahanshad, Paul M. Thompson, Ysbrand van der Werf, Boris A. Gutman (2022). Learning Interpretable Regularized Ordinal Models from 3D Mesh Data for Neurodegenerative Disease Staging, submitted to the **MICCAI MLCN Workshop**, July 8, 2022.

427. Elizabeth Haddad<sup>[10000-0002-7622-9085]</sup>, Shayan Javid<sup>1</sup>, Nikhil Dhinagar<sup>1</sup>, Alyssa H. Zhu<sup>1</sup>, Pradeep Lam<sup>1</sup>, Iyad Ba Gari<sup>1</sup>, Paul M. Thompson<sup>1</sup>, Talia M. Nir<sup>1</sup>, and Neda Jahanshad (2022). **Lifestyle factors that promote brain structural resilience in individuals with genetic risk factors for dementia**, submitted to the **MICCAI MLCN Workshop**, July 8, 2022.

428. Tamoghna Chattopadhyay<sup>1</sup>, Jayati Naik<sup>1</sup>, Dheeraj Komandur<sup>1</sup>, Neha Ann Joshy<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, **Paul M. Thompson**<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2022). Predicting Amyloid Positivity from Brain MRI using Classical Machine Learning, Convolutional Deep Learning, and Hybrid Networks (2022). submitted to the **MICCAI MLCN Workshop**, July 8, 2022.

#### **SIPAIM 2022 (Full Peer-Reviewed Papers)**

429. Shruti Gadewar, Abhinaav Ramesh, Iyad Ba Gari, **Paul M. Thompson**, Mengting Liu, Neda Jahanshad (2022). Predicting Individual Brain MRIs at any Age using Style Encoding Generative Adversarial Networks, submitted to **SIPAIM**, July 28, 2022.

430. Tamoghna Chattopadhyay, Amit Singh, Neha Ann Joshy, Sophia I. Thomopoulos, Talia M. Nir, Hong Zheng, Elnaz Nourollahimoghadam, Umang Gupta, Greg Ver Steeg, Neda Jahanshad and Paul Thompson (2022). Predicting Dementia Severity by Merging Anatomical and Diffusion MRI with Deep 3D Convolutional Neural Networks, submitted to **SIPAIM**, July 28, 2022.

431. Nikhil Dhinagar, Sophia Thomopoulos, Priya Rajagopalan, Dimitris Stripelis, Jose-Luis Ambite, Greg Ver Steeg and Paul Thompson (2022). Evaluation of Transfer Learning Methods for Detecting Alzheimer's Disease with Brain MRI, submitted to **SIPAIM**, July 28, 2022.

432. [Yixue Feng](#), Bramsh Q. Chandio, Tamoghna Chattopadhyay, Sophia I. Thomopoulos, Conor Owens-Walton, Neda Jahanshad, Eleftherios Garyfallidis and Paul M. Thompson (2022). Learning Optimal White Matter Tract Representations from Tractography using a Deep Generative Model for Population Analyses, submitted to **SIPAIM**, July 28, 2022.

#### **Book Chapters:**

1061. **Thompson PM**, Toga AW (1998) *Anatomically-Driven Strategies for High-Dimensional Brain Image Warping and Pathology Detection*, in: *Brain Warping*, (Toga AW, ed.), Academic Press, 311-336, Nov. 1998.

1062. **Thompson PM**, Narr KL, Blanton RE, Toga AW (2002). *Mapping Structural Alterations of the Corpus Callosum during Brain Development and Degeneration*, Chapter, in: Zaidel E, Iacoboni M [eds.], *The Parallel Brain: The Cognitive Neuroscience of the Corpus Callosum*, MIT Press, August 2002.
1063. **Thompson PM**, Toga AW (2000). *Elastic Image Registration and Pathology Detection*, Invited Chapter in: Bankman I, Rangayyan R, Evans AC, Woods RP, Fishman E, Huang HK [eds.], *Handbook of Medical Image Processing*, Academic Press.
1064. **Thompson PM**, Mega MS, Narr KL, Sowell ER, Blanton RE, Toga AW (2000). *Brain Image Analysis and Atlas Construction*, Invited Chapter, in: Fitzpatrick M, Sonka M [eds.], *SPIE Handbook on Medical Image Analysis*, Society of Photo-Optical Instrumentation Engineers (SPIE) Press, August 2000, pp. 1063-1131.
1065. **Thompson PM**, Mega MS, Toga AW (2000). *Disease-Specific Brain Atlases*, Invited Chapter in: *Brain Mapping: The Disorders*, Toga AW, Mazziotta JC [eds.], Academic Press, July 2000.
1066. **Thompson PM**, Mega MS, Toga AW (2002). *Subpopulation Brain Atlases*, Invited Chapter in: *Brain Mapping: The Methods*, Toga AW, Mazziotta JC [eds.], Academic Press, 2<sup>nd</sup> edn., 2002.
1067. **Thompson PM**, Rapoport JL, Cannon TD, Toga AW (2004). *Automated Analysis of Structural MRI Data*, Chapter 5 in: *Schizophrenia: from Neuroimaging to Neuroscience*, Lawrie AL, Weinberger D, Johnstone EC [eds.], Oxford University Press, 2004.
1068. **Thompson PM**, Sowell ER, Gogtay N, Giedd JN, Vidal CN, Hayashi KM, Leow A, Nicolson R, Rapoport JL, Toga AW (2005). *Structural MRI and Brain Development*, Chapter in: *International Review of Neuroscience*, Glabus M [ed.].
1069. Toga AW, **Thompson PM**, Payne BA (1996) *Modeling Morphometric Changes of the Brain during Development*, in: *Developmental Neuroimaging: Mapping the Development of Brain and Behavior*; RW Thatcher, G Reid Lyon, J Rumsey, N Krasnegor [eds.], Academic Press, pp.15-27, September 1996.
1070. Toga AW, **Thompson PM** (1998). *Multimodal Brain Atlases*, Invited Chapter in: *Medical Image Databases*, Wong STC [ed.], Kluwer Academic Press, pp.53-88.
1071. Toga AW, **Thompson PM** (1998). *An Introduction to Brain Warping* [Introductory Chapter], in: *Brain Warping*, (Toga AW, ed.), Academic Press, 1-26, Nov. 1998.
1072. Toga AW, **Thompson PM** (2000). *An Introduction to Maps and Atlases of the Brain*, Book Chapter in: *Brain Mapping: The Applications*, Toga AW, Mazziotta JC [eds.], Academic Press, July 2000.
1073. Toga AW, **Thompson PM** (2000). *Brain Atlases and Image Registration*, Book Chapter in: Bankman I, Rangayyan R, Evans AC, Woods RP, Fishman E, Huang HK [eds.], *Handbook of Medical Image Processing*, Academic Press, 2000.
1074. Toga AW, Mega MS, **Thompson PM** (2002). *Neuroimaging Alzheimer's Disease*, Book Chapter in: Esiri M, Morris JH, *The Neuropathology of Dementia*, Cambridge University Press, 2002.
1075. Toga AW, **Thompson PM**, Sowell ER, Narr KL (2003). *Probabilistic Brain Atlases of Normal and Diseased Populations*, Book chapter for: Koslow SH, Subramaniam SH [eds.], *Databasing the Brain: From Data to Knowledge (Neuroinformatics)*, John Wiley & Sons, Inc.
1076. Toga AW, **Thompson PM** (2005). *Brain Atlases of Normal and Diseased Populations*, Chapter in: *International*

*Review of Neuroscience*, Glabus M [ed.].

- 1077.Toga AW, Narr KL, **Thompson PM**, Luders E (2006). *Brain Asymmetry*, Chapter in: **Nature Encyclopedia of Neuroscience**, MS #936, [in press].
- 1078.Mega MS, **Thompson PM**, Toga AW, Cummings JL (1999). *Brain Mapping in Dementia*, Book Chapter in: *Brain Mapping: The Disorders*, Toga AW, Mazziotta JC [eds.], Academic Press, July 2000.
- 1079.Pitiot A, Delingette H, **Thompson PM** (2005). *Automated Image Segmentation: Issues and Applications*, Book Chapter in: Leondes C [ed.], *Medical Imaging Systems: Technology and Applications*, volume 3. World Scientific, 2005.
- 1080.Small GW, Kepe V, Ercoli LM, Siddarth P, Bookheimer SY, Miller KJ, Lavretsky H, Burggren AC, Cole GM, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy NE, Phelps ME, Barrio JR (2008). *Cerebral Amyloid and Tau PET Scanning in Mild Cognitive Impairment*, **Alzheimer Year Book 2008** - Research and Practice in Alzheimer's Disease and Cognitive Decline, vol 11, 2008.
- 1081.Becker JT, Raji CA, Olabarrieta M, Carmichael OT, Dai W, Maruca V, **Thompson PM**, Kuller L, Lopez OL (2008). *Brain Structural and Functional Correlates of Dementia and Mild Cognitive Impairment in the Context of Community-Based Studies*, ed. Aizenstein and Reynolds.
- 1082.Morra J, Tu Z, Toga AW, **Thompson PM** (2009). *Machine Learning for Brain Image Segmentation*, Tutorial Chapter in Textbook: **Biomedical Image Analysis and Machine Learning Technologies**, ed. Gonzalez F, Romero E, to appear: 2009.
- 1083.Apostolova LG, **Thompson PM** (2009). *Structural Imaging of Alzheimer's Disease*, Chapter in: **Imaging of Neuropsychiatric Disorders Textbook**, ed. Martha Shenton, Bruce Turetsky, 2009. Cambridge University Press.
- 1084.Colom R, Thompson PM (2011). *Understanding Intelligence by Imaging the Brain*, Chapter in: **Handbook of Individual Differences**, eds: Tomas Chamorro-Premuzic, Adrian Furnham, Sophie von Stumm. Wiley-Blackwell, 2011.
- 1085.Leow AD, Apostolova LG, **Thompson PM** (2011). *Computational Anatomy in Alzheimer's Disease*. Chapter for **Principles and Practice of Geriatric Psychiatry**, 3<sup>rd</sup> edition. Abou-Saleh M, Katona C, Kumar A (eds), John Wiley and Sons, Ltd., Chichester, England.
- 1086.Toga AW, Clark KA, Dong HW, **Thompson PM**, Hintiryan H, van Horn JD (2013). Brain Connectomics in Man and Mouse, Chapter: in *OMICS in Neuroscience*, ed: G. Coppola et al., in press, July 2013.
- 1087.**Thompson PM**, Alger JR, Jahanshad N (2015). **Brain Imaging in People with HIV**, Chapter in: *Global Virology*, ed. Paul Shapshak, 2015.
- 1088.Stein JL, **Thompson PM**, Nichols TE (2014). **Statistical Methods for Meta-Analysis, Book Chapter for JB Poline and Giovanni Montana.**
- 1089.**Paul M. Thompson**<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1,2</sup>, Neda Jahanshad (2015). *Imaging Genomics and ENIGMA*, Book chapter for "Genomics, Circuits and Pathways for the Clinical Neuroscientist", Edited by Thomas Lehner, Matt State, Bruce Miller, 2015.

1090. **Florence F. Roussotte and Paul M. Thompson (2015). Delta Opioid Receptor Variants and Addiction, submitted.**
1091. **Stein J, Hibar DP, Thompson PM (2015). Genetics of Brain Structure, chapter 10** in the book *Neuroimaging Genetics*, edited by Danny Weinberger, to appear.
1092. **Roussotte FF, Thompson PM (2016).** Polymorphisms in the Delta Opioid Receptor Gene (OPRD1) and Drug Addiction: Candidate Genes, Transgenic Mouse Models, and Genome-Wide Association Studies, Book chapter in: *Neuropathology of Drug Addictions and Substance Misuse, Volume 3* (chapter 17).
1093. **Eileen Luders<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Florian Kurth (2016). Morphometry of the Corpus Callosum, Book Chapter, 2016.**
1094. Dennis EL, **Thompson PM**, Jahanshad N. "Genetics of Brain Networks and Connectivity." *Connectomics*. Ed. Guorong Wu: Elsevier, 2018.
1095. **Paul M. Thompson**, Christopher R. K. Ching, Emily L. Dennis, Lauren E. Salminen, Jessica A. Turner, Theo G. M. van Erp, Neda Jahanshad (2020). **Big Data Initiatives in Psychiatry: Global Neuroimaging Studies, A Book Chapter for: 'Neuroimaging in Schizophrenia', Marek Kubicki, Martha E. Shenton, eds., (to be published by Springer Verlag in 2020).**
1096. Matt Tharp<sup>1,2</sup>, Shannon L. Risacher<sup>1,2</sup>, Paula Bice<sup>1,2</sup>, Paul M. Thompson<sup>3</sup>, Andrew J. Saykin<sup>1,2,4</sup>, Meichen Yu<sup>1,2,4</sup> (2021). Novel approaches to large-scale data in neuroimaging, *SAGE Handbook* book chapter, submitted, Oct. 2021.

#### Abstracts:

#### 1996

1097. **Thompson PM**, Schwartz C, Lin RT, Khan AA, Toga AW, Collins RC (1996). *3D Statistical Analysis of Sulcal Variability in the Human Brain using High-Resolution Cryosection Images*, Soc. Neurosci. Abstracts **21**(1):154.
433. **Thompson PM**, Toga AW (1996e) *Mapping the Internal Cortex: A Probabilistic Brain Atlas Based on High-Dimensional Random Fluid Transformations*, Proc. 2<sup>nd</sup> Int. Conf. on Functional Mapping of the Human Brain: Boston, MA.
434. **Thompson PM**, Mega MS, Moussai J, Zohoori S, Xu LQ, Goldkorn A, Khan AA, Coryell J, Small GW, Cummings JL, Toga AW (1996f) *3D Probabilistic Atlas and Average Surface Representation of the Alzheimer's Brain, with Variability and Probability Maps of Ventricular System and Deep Cortex*, Soc. Neurosci. Abstracts **26**(2):1105.
435. Mega MS, Chen S, Tiwari A, Karaca TJ, Vinters H, **Thompson PM**, Toga AW (1996c) *Mapping Pathology to Metabolism: Coregistration of Stained Whole Brain Sections to PET*, Soc. Neurosci. Abstracts **26**(2):1105.

#### 1997

436. Mega MS, Chu T, **Thompson PM**, Mazziotta JC, Cole G, Toga AW (1997) *Amyloid Beta Protein Density and Cortical Metabolism on FDG-PET in Alzheimer's Disease*, 3rd International Conference on Functional Mapping

- of the Human Brain, May 19-23, 1997, Copenhagen, Denmark, *NeuroImage* 5(4):S346.
437. Mega MS, Chu T, **Thompson PM**, Mazziotta JC, Burt J, Aron J, Ghasri P, Chen S, Lim J, Cole GM, Toga AW (1997e) *[18F]-Fluorodeoxyglucose Positron Emission Tomography (FDG-PET) Corrected with Synaptophysin Density is Inversely Related to Beta-Amyloid Burden in Alzheimer's Disease*, Proc. 122nd Annual Meeting of the American Neurological Association, San Diego, California, September 1997, **Annals of Neurology** 42(3):M23.
438. **Thompson PM**, Mega MS, Blanton RE, Moussai J, Khan AA, Zohoori S, Mogy J, Aron J, Goldkorn A, Holmes CJ, Small G, Cummings JL, MacDonald D, Evans AC, Collins RC, Toga AW (1997) *A Detection System for Mapping Abnormal Structure, Anatomic Variability, and Brain Asymmetry in Alzheimer's Disease and Aging, with 3D Deformable Probabilistic Brain Atlases*, Annual Meeting of the Society for Neuroscience in New Orleans, Louisiana; Soc. Neurosci. Abstracts 27(2):2173.
439. **Thompson PM**, MacDonald D, Mega MS, Holmes CJ, Evans AC, Toga AW (1997) *Quantifying and Correcting for Variable Cortical Morphology in Functional Imaging using a Deformable Probabilistic Brain Atlas*, 3rd International Conference on Functional Mapping of the Human Brain, May 19-23, 1997, Copenhagen, Denmark.
440. Fuh JL, Mega MS, **Thompson PM**, Cummings JL, Toga AW (1997) *Cortical Complexity Maps and Cognition in Alzheimer's Disease*, Proc. 122nd Annual Meeting of the American Neurological Association, 1997.
441. Blanton RE, **Thompson PM**, Cannestra AF, Mega MS, Sharma T, Levitt JL, McCracken JT, Toga AW (1997) *The Relevance of Talairach Stereotaxic Space: A Developmental Study*, Annual Meeting of the Society for Neuroscience in New Orleans, Louisiana; Soc. Neurosci. Abstracts 27(2).
442. Dinov ID, **Thompson PM**, Woods RP, Mega MS, Holmes CJ, Sumners DW, Toga AW. *On permissibility of covariogram models with applications to analyzing human brain functional data*, Conference on Statistical Analysis in Alzheimer's Disease Research, May 15-17 1998, Lexington, KY.
443. Holmes CJ, Payne BA, **Thompson PM**, MacDonald D, Evans AC, Toga AW (1997) *Extruded Parametric Tetrahedral Models for Automatic Subnuclear Surface Extraction*, 3rd Int. Conf. on Functional Mapping of the Human Brain, May 19-23 1997, Copenhagen, Denmark.
444. Toga AW, **Thompson PM** (1997) *Variabilities and Probabilities of Human Brain Anatomy*, In: *Neuroinformatics: A New Capability for Neuroscience in the Next Millennium*, 17th Winter Conference on Brain Research, S11.

## 1998

1098. Mega MS, Dinov ID, Lee L, Woods RP, **Thompson PM**, Holmes CJ, Back CL, Collins DL, Evans AC, Toga AW (1998) *Dissecting Neural Networks Underlying the Retrieval Deficit from the Amnesic Memory Disorder Using [<sup>99m</sup>Tc]-HMPAO-SPECT*, Annual Meeting of the American Behavioral Neurology Society, Feb. 1998.
1099. **Thompson PM**, Mega MS, Blanton RE, Moussai J, Zohoori S, Goldkorn A, Holmes CJ, MacDonald D, Small GW, Cummings JL, Toga AW (1998) *3-Dimensional Patterns of Abnormal Brain Structure, Anatomic Variation and Asymmetry in Alzheimer's Disease*, Annual Meeting of the American Behavioral Neurology Society, Feb. 1998.
1100. Sowell ER, Holmes CJ, **Thompson PM**, Batth R, Toga AW (1998). *Localizing Age-Related Changes in Brain Structure between Childhood and Adolescence using Statistical Mapping Techniques*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, *NeuroImage* 7(4):S511.

1101. Narr KL, Cannestra AF, **Thompson PM**, Sharma T, Toga AW (1998). *Morphological Variability Maps of the Corpus Callosum and Fornix in Schizophrenia*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, NeuroImage 7(4):S506.
1102. Moussai J, Anvar BA, Narr KL, Cannestra AF, **Thompson PM**, Sharma T, Toga AW (1998). *3-Dimensional Analysis of Lateral Ventricles in Schizophrenia*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, NeuroImage 7(4):S505.
1103. Mega MS, Aron J, **Thompson PM**, Lee L, Mogy J, Toga AW (1998). *Cortical Surface Variability of the Alzheimer's Brain: Correlates with Cognition*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, NeuroImage 7(4):S523.
1104. Mega MS, Trivedi KH, Mazziotta JC, Woods RP, **Thompson PM**, Lim J, Shah AK, Lindshield CJ, Sterling L, Yu J, Zoumalan CI, Toga AW (1998). *A Population-Based Multi-Modality Atlas of the Alzheimer's Brain: Integrating Pathology and Metabolism*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, NeuroImage 7(4):S522.
1105. **Thompson PM**, Giedd JN, Blanton RE, Lindshield C, Woods RP, MacDonald D, Evans AC, Toga AW (1998). *Growth Patterns in the Developing Human Brain Detected Using Continuum-Mechanical Tensor Maps and Serial MRI*, 4<sup>th</sup> Int. Conf. on Human Brain Mapping, NeuroImage 7(4):S38.
1106. Woods RP, Mega MS, **Thompson PM** (1998). *Use of Automated Polynomial Warping to Create an MRI Atlas Specific for the Study of Alzheimer's Disease*, Annals of Neurology 1998; 44(3):449.
1107. Sowell ER, **Thompson PM**, Holmes CJ, Jernigan TL, Toga AW (1998). *Statistical Parametric Mapping of Structural Brain Changes between Childhood and Adolescence*, Annual Conference of the Society for Neuroscience, 1998.
1108. Narr KL, Sharma T, Edris A, Cannestra AF, **Thompson PM**, Toga AW (1998). *3-Dimensional Analysis of Sylvian Fissure Morphometry in Schizophrenia*, Annual Conference of the Society for Neuroscience, 1998.
1109. Blanton RE, Levitt JG, **Thompson PM**, Sowell ER, Narr KL, Mega MS, Sharma T, Collins RC, Toga AW (1998). *Normal Developmental and Aging Effects on Corpus Callosum Morphology*, Annual Conference of the Society for Neuroscience, 1998.
1110. Mega MS, Woods RP, **Thompson PM**, Dinov ID, Lee L, Aron J, Zoumalan CI, Cummings JL, Toga AW (1998). *Detecting Metabolic Patterns Associated with Minimal Cognitive Impairment using FDG-PET Analysis within a Probabilistic Brain Atlas based upon Continuum Mechanics*, Annual Conference of the Society for Neuroscience, 1998.
1111. Dinov ID, **Thompson PM**, Woods RP, Mega MS, Holmes CJ, Sumners DW, Toga AW (1998). *On Permissibility of Covariogram Models with Applications to Analyzing Human Brain Functional Data*, Conference on Statistical Analysis in Alzheimer's Disease Research, May 15-17 1998, Lexington, KY.
1112. **Thompson PM**, Toga AW (1998). *Mathematical/Computational Strategies for Creating a Probabilistic Atlas of the Human Brain*, Invited Paper, *International Conference on Statistics of Brain Mapping*, Centre de Recherches Mathématiques, McGill University, Canada, June 13-14, 1998.

## 1999

1113. **Thompson PM**, Mega MS, Woods RP, Blanton RE, Moussai J, Zoumalan CI, Cummings JL, MacDonald D, Evans AC, Toga AW (1999). *Detecting 3D Patterns of Alzheimer's Disease Pathology with a Probabilistic Brain Atlas based on Continuum Mechanics*, Annual Conference of the American Academy of Neurology, **Neurology** 52(6):A368 Suppl., April 2, 1999.

1114. Zoumalan CI, Mega MS, **Thompson PM**, Fuh JL, Lindshield C, Toga AW (1999). *Mapping 3D Patterns of Cortical Variability in Normal Aging and Alzheimer's Disease*, Annual Conference of the American Academy of Neurology, **Neurology** 52(6):A369 Suppl., April 2, 1999.
1115. Kwong EM, Mega MS, **Thompson PM**, Xu LQ, Ercoli LM, Cummings JL, Small GW, Felix J, Toga AW (1999). *Three-Dimensional Hippocampal Maps In Normal Aging, Older Persons with Mild Cognitive Impairment and Patients with Alzheimer's Disease*, Annual Conference of the American Academy of Neurology, **Neurology** 52(6):A570-571 Suppl., April 2, 1999.
1116. Kwong EM, Mega MS, **Thompson PM**, Toga AW (1999). *Mapping of the Hippocampal Anatomical Differences among Normal Individuals, People with Mild Memory Impairment, and Patients with Alzheimer's Disease*, **Journal of Investigative Medicine** 47(2):80A, February 1999.
1117. **Thompson PM**, Giedd JN, Woods RP, MacDonald D, Evans AC, Toga AW (1999). *Dynamic Growth and Pruning Patterns in the Developing Human Brain Identified Using Continuum-Mechanical Tensor Mapping*, Presentation #353, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1118. **Thompson PM**, Mega MS, Woods RP, Blanton RE, Moussai J, Zoumalan CI, Aron J, Cummings JL, Toga AW (1999). *A Probabilistic Atlas of the Human Brain in Alzheimer's Disease: Emerging Patterns of Variability, Asymmetry and Degeneration*, Presentation #597, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1119. Shah AK, Mega MS, Trivedi KH, Lindshield CJ, Duhaylongsod LM, Dooley JR, **Thompson PM**, Sterling L, Yu J, Leung M, Saedi G, Zoumalan CI, Nguyen A, Toga AW (1999). *A Population-Based Digital Atlas of the Alzheimer's Brain: Integrating Functional, Histologic and Biochemical Data*, Presentation #586, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1120. Zoumalan CI, Mega MS, **Thompson PM**, Grigoriants A, Nguyen A, Toga AW (1999). *Three-Dimensional Sulcal Deformations of the Brain in Aging and Dementia are Related to Cognitive Performance*, Presentation #602, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1121. Mega MS, Dinov ID, Lindshield C, **Thompson PM**, Toga AW (1999). *Differences between Raw and Partial Volume Corrected Analysis of Positron Emission Tomography (PET) Data using Sub-Volume Thresholding in a Probabilistic Region-of-Interest Atlas*, Presentation #184, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1122. Dinov ID, Woods RP, **Thompson PM**, Sumners DL, Mega MS, Sowell ER, Toga AW (1999). *Quantitative Comparison and Analysis of Stereotactic Image Registration: Wavelet-Based Frequency Adaptive Warp Ranking*, Presentation #141, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1123. Blanton RE, Levitt J, **Thompson PM**, Badrtalei S, Capetillo-Cunliffe L, Toga AW (1999). *Average 3-Dimensional Caudate Surface Representations in a Juvenile-Onset Schizophrenia and Normal Pediatric Population*, Presentation #621, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
1124. Narr KL, Sharma T, Moussai J, Zoumalan CI, Cannestra AF, **Thompson PM**, Toga AW (1999). *3D Maps of Cortical Surface Variability and Sulcal Asymmetries in Schizophrenic and Normal Populations*, Presentation #622, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.

- 1125.Sowell ER, **Thompson PM**, Holmes CJ, Batth R, Levitt J, Caplan R, McCracken J, Asarnow RF, Toga AW (1999). *Subcortical and Temporo-Limbic Abnormalities in Early Onset Schizophrenia Observed with Statistical Parametric Mapping of Structural MRI*, Presentation #613, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
- 1126.Lindshield CJ, Mega MS, Narr KL, Moussai J, Dinov ID, Sowell ER, **Thompson PM**, Cannestra AF, Woods RP, Sharma T, Toga AW (1999). *Age-Related Frontal Gray Matter Loss: Volumetric Tissue Analysis in a Probabilistic Atlas using High-Order Non-linear Registration*, Presentation #102, 5th International Conference on Functional Mapping of the Human Brain, Dusseldorf, Germany, June 1999.
- 1127.**Thompson PM**, Mega MS, Woods RP, Blanton RE, Moussai J, Zoumalan CI, Cummings J, MacDonald D, Evans AC, Toga AW (1999). *Detecting 3D Patterns of Alzheimer's Disease Pathology with a Disease-Specific, Population-Based Probabilistic Brain Atlas*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1128.Sowell ER, **Thompson PM**, Holmes CJ, Kornsand D, Jernigan TL, Toga AW (1999). *Progression of Structural Changes in the Human Brain during the First Three Decades of Life: In Vivo Evidence for Post-Adolescent Frontal and Striatal Maturation*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1129.Narr KL, **Thompson PM**, Sharma T, Moussai J, Zoumalan CI, Wang W, Rayman J, Toga AW (1999). *Cortical and Subcortical Asymmetries: Sex Effects in Schizophrenic and Normal Populations*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1130.Wong GK, Haney S, **Thompson PM**, Alger JR, Cloughesy TF, Toga AW (1999). *Mapping Dynamic Patterns of Tumor Growth in Patients with Glioblastoma Multiforme*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1131.Blanton RE, Levitt JG, **Thompson PM**, Capetillo-Cunliffe LF, Sadoun T, Williams T, Cummings JL, Toga AW (1999). *Mapping 3-Dimensional Changes in the Lateral Ventricular System in Normal Children: Asymmetries and Gender Differences*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1132.Cannestra AF, Sharma T, Narr KL, **Thompson PM**, Moussai J, Edris A, Blanton RE, Toga AW (1999). *3D Variability Maps of the Hippocampus and Amygdala in Schizophrenia*, Proc. Society for Neuroscience, Miami, FL, Oct. 1999.
- 1133.Holmes CJ, **Thompson PM**, Toga AW (1999). *Applications of Graphics Technology in Medical Imaging*, Silicon Graphics World, 9(9):9-10, Fall 1999 Issue, SGI Headquarters, Mountain View, CA.
- 1134.Haney S, **Thompson PM**, Alger JR, Cloughesy TF, Toga AW (1999). *Tracking Tumor Growth Rates in Patients with Malignant Gliomas*, 4<sup>th</sup> Annual Meeting of the Society for Neuro-Oncology, Scottsdale, AZ, Nov. 1999.

## 2000

- 1135.Narr KL, **Thompson PM**, Sharma T, Moussai J, Toga AW (2000). *Cortical Surface Asymmetries and Sulcal Shape Variability in Schizophrenia*, 2000 International Congress on Schizophrenia Research, Schizophrenia Research 41(1):A218, Jan. 3, 2000.
- 1136.**Thompson PM**, Mega MS, Woods RP, Zoumalan CI, Lindshield CJ, Blanton RE, Moussai J, Holmes CJ, Dinov ID, Cummings J, Toga AW (2000). *Early Cortical Change in Alzheimer's Disease Detected with a Disease-Specific, Population-Based, Probabilistic Brain Atlas*, Annual Conference of the American Academy of Neurology, 2000.



1137. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Toga AW (2000). *Tracking and Modeling Tumor Growth Rates in Patients with Malignant Gliomas*, Annual Conference of the American Academy of Neurology, 2000.
1138. Narr KL, **Thompson PM**, Sharma T, Moussai J, Zoumalan CI, Toga AW (2000). *3D Mapping of Regional and Disease-Specific Morphometric Alterations in Schizophrenia*, Annual Conference of the American Academy of Neurology, 2000.
1139. Sowell ER, **Thompson PM**, Mattson SN, Jernigan TL, Riley EP, Toga AW (2000). *Mapping Dysmorphology of the Corpus Callosum in Children Prenatally Exposed to Alcohol*, Annual Conference of the American Academy of Neurology, 2000.

### **Human Brain Mapping 2000**

1140. **Thompson PM**, Mega MS, Woods RP, Zoumalan CI, Lindshield CJ, Blanton RE, Moussai J, Holmes CJ, Dinov ID, Cummings JL, Toga AW (2000). *Early Cortical Change in Alzheimer's Disease Detected using Cortical Pattern Matching and a Disease-Specific Population-Based Brain Atlas*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1141. **Thompson PM**, Giedd JN, Woods RP, MacDonald D, Evans AC, Toga AW (2000). *Growth Tensor Mapping: A Rostro-Caudal Wave of Peak Growth Rates Detected in the Developing Human Brain in the First 15 Years of Life*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1142. Zeineh MM, **Thompson PM**, Engel SA, Bookheimer SY (2000). *Averaging Flat Maps of Hippocampal Activity Across Subjects*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1143. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Toga AW (2000). *Mapping Tumor Growth Rates in Patients with Malignant Gliomas: A Test of Two Algorithms*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1144. Sowell ER, **Thompson PM**, Tessner KD, Mattson SN, Malwah A, Jernigan TL, Riley EP, Toga AW (2000). *In Vivo Voxel-Based Morphometric Analyses of the Brain in Fetal Alcohol Syndrome: Abnormalities in Posterior Temporo-Parietal Cortex*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1145. Sowell ER, **Thompson PM**, Rex DE, Kornsand DS, Jernigan TL, Toga AW (2000). *Mapping Sulcal Pattern Asymmetry In Vivo: Maturation in Posterior Perisylvian Cortices*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1146. Woods RP, **Thompson PM**, Mazziotta JC, Toga AW (2000). *A Definition of Average Brain Size, Orientation and Shape*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1147. Rex DE, **Thompson PM**, Blanton RE, Nobel A, Singerman JD, Fox PT, Lancaster J, Evans AC, Sicotte NL, Mazziotta JC, Toga AW (2000). *Multisite Study of Cortical Variability in Normal Adults*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1148. Dinov ID, Mega MS, **Thompson PM**, Lindshield CJ, Toga AW (2000). *Statistical Analysis of Functional Brain Data Using Sub-Volume Thresholding and an Elderly Population Probabilistic Brain Atlas: Effects of Education on Brain Perfusion in Alzheimer's Disease*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.

1149. Mega MS, Fennema-Notestine C, Dinov ID, **Thompson PM**, Archibald SL, Lindshield CJ, Felix J, Toga AW, Jernigan TL (2000). *Construction, Testing, and Validation of a Sub-Volume Probabilistic Human Brain Atlas for the Elderly and Demented Populations*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1150. Mega MS, Lindshield CJ, Leung M, Dinov ID, **Thompson PM**, Felix J, Fennema-Notestine C, Archibald SL, Jernigan TL, Toga AW (2000). *Application of a Sub-Volume Probabilistic Human Brain Atlas for the Elderly and Demented Populations: Automated Mapping of Regional Gray Matter Loss*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1151. Narr KL, **Thompson PM**, Sharma T, Moussai J, Krupp R, Jang S, Khaledy M, Toga AW (2000). *3D Maps of Cortical Gray Matter Concentration in Schizophrenic and Normal Populations*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1152. Narr KL, **Thompson PM**, Sharma T, Moussai J, Khaledy M, Eghbalieh S, Toga AW (2000). *3D Atlas of Sulcal Trajectories and Asymmetries in Schizophrenic and Normal Populations: Gender Effects*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1153. Blanton RE, Badrtalei S, Levitt JG, **Thompson PM**, McCracken JT, Narr KL, Sharma T, Toga AW (2000). *Volumetric and Morphometric Analysis of the Caudate Nucleus in the Normal Pediatric and Adult Human Brain*, 6th International Conference on Functional Mapping of the Human Brain, San Antonio, Texas, June 2000.
1154. **Thompson PM**, Toga AW (2000). *Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Talk Abstract for Joint Statistical Meetings 2000, Indianapolis, IN, August 13-17, 2000.
1155. Mega MS, **Thompson PM**, Dinov ID, Toga AW, Cummings JL (2000). *The UCLA Alzheimer Brain Atlas Project: Structural and Functional Applications*, Proc. 2000 World Alzheimer's Congress, Washington DC, 2000.
1156. Holmes CJ, Haney S, **Thompson PM**, Alger JR, Cloughesy TF, Elekes A, Toga AW (2000). *Remote Dynamic Volume Visualization of Tumor Growth*, Proc. Radiol. Soc. North America (RSNA), Chicago, IL, 2000.
- Society for Neuroscience 2000**
1157. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Frew A, Toga AW (2000). *Prognostic Value of Growth Rates and Spectroscopic Data in Patients with Malignant Gliomas*, Proc. Society for Neuroscience, 2000.
1158. **Thompson PM**, Mega MS, Cummings JL, Toga AW (2000). *Detecting Dynamic (4D) Profiles of Degenerative Rates in Alzheimer's Disease Patients, Using Tensor Mapping and a Population-Based Brain Atlas*, Proc. Society for Neuroscience, 2000.
1159. Blanton RE, Levitt JG, **Thompson PM**, Uddin LQ, Capetillo-Cunliffe L, McCracken JT, Toga AW (2000). *3D Mapping of Cerebellar Anatomy in Normal Children: Age, Asymmetry, and Gender Effects*, Proc. Society for Neuroscience, 2000.
1160. Sowell ER, Mattson SN, **Thompson PM**, Jernigan TL, Riley EP, Toga AW (2000). *Mapping Corpus Callosum Morphology and its Neurocognitive Correlates: The Effects of Prenatal Alcohol Exposure*, Proc. Society for Neuroscience, 2000.
1161. Narr KL, **Thompson PM**, Sharma T, Khaledy M, Moussai J, Toga AW (2000). *3-Dimensional Mapping and Characterization of Differences in the Basal Ganglia in Schizophrenia*, Proc. Society for Neuroscience, 2000.

1162. Rex DE, Pouratian N, **Thompson PM**, Cunanen CC, Sicotte NL, Collins RC, Toga AW (2000). *Cortical Surface Warping Applied to Group Analysis of fMRI of Tongue Movement in the Left Hemisphere*, Proc. Society for Neuroscience, 2000..

1163. Mazziotta JC, Toga AW, Woods RP, **Thompson PM**, Evans AC, Paus T, Collins L, Pike B, Fox PT, Lancaster J, Parsons L, Simpson G, Zilles K (2000). *The International Consortium for Brain Mapping*, Proc. Annual Meeting of the Human Brain Project, June 1-2 2000, Bethesda, MD.

#### **Society for Neuro-Oncology 2000**

1164. Haney S, **Thompson PM**, Cloughesy TF, Alger JR, Frew AJ, Toga AW (2000). *Growth Rates, MR Spectroscopy and Prognostic Markers for Glioblastoma Multiforme*, Proc. Society for Neuro-Oncology, Chicago, IL, Nov. 9-12, 2000.

1165. Frew AJ, **Thompson PM**, Haney S, Cloughesy TF, Alger JR, Toga AW (2000). *Mapping Therapeutic Response In A Patient With Glioblastoma Multiforme Through Short Interval Scanning*, Proc. Society for Neuro-Oncology, Chicago, IL, Nov. 9-12, 2000.

#### **Brain Mapping Course 2000**

1166. **Thompson PM**, Mega MS, Woods RP, MacDonald D, Narr KL, Zeineh MM, Rex D, Holmes CJ, Evans AC, Mazziotta JC, Toga AW (2000). *Surface-Based Analysis of the Structure and Function of the Human Cerebral Cortex*, Breakfast Symposium (with Dr. Bruce Fischl and Dr. David Van Essen): Brain Imaging Methods and Analysis Techniques, 6th Annual Meeting of the Organization for Human Brain Mapping, San Antonio, Texas, June 15, 2000.

1167. **Thompson PM**, Toga AW (2000). *Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Conference Paper, International Workshop on Statistics in Brain Mapping, and Joint Statistical Meetings (JSM), Indianapolis, IN, August 2000.

#### **American Academy of Neurology 2001**

1168. **Thompson PM**, de Zubicaray G, Janke AL, Rose SE, Mega MS, Semple J, Hong MS, Cummings JL, Doddrell DM, Toga AW (2001). *Detecting Dynamic (4D) Profiles of Degenerative Rates in Alzheimer's Disease Patients, Using High-Resolution Tensor Mapping and a Brain Atlas Encoding Atrophic Rates in a Population*, American Academy of Neurology, June 2001.

#### **Human Brain Mapping 2001**

1169. **Thompson PM**, Cannon TD, Narr KL, van Erp T, Khaledy M, Poutanen V-P, Huttunen M, Lönnqvist J, Standertskjöld-Nordenstam C-G, Kaprio J, Dail R, Zoumalan CI, Toga AW (2001). *Mapping of Linkages between Genetic Similarity and Brain Structure Reveals a Pattern of Differential Genetic Control for Subregions of the Human Cerebral Cortex*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.

1170. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Poutanen V-P, Huttunen M, Lönnqvist J, Standertskjöld-Nordenstam C-G, Narr KL, Khaledy M, Zoumalan CI, Dail R, Kaprio J (2001). *A Probabilistic Atlas of Cortical Gray Matter Changes in Monozygotic Twins Discordant for Schizophrenia*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.

1171. **Thompson PM**, de Zubicaray G, Janke AL, Rose SE, Dittmer S, Semple J, Gravano D, Han S, Herman D, Hong MS, Mega MS, Cummings JL, Doddrell DM, Toga AW (2001). Detecting Dynamic (4D) Profiles of Degenerative Rates in Alzheimer's Disease Patients, Using High-Resolution Tensor Mapping and a Brain Atlas Encoding Atrophic Rates in a Population, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
1172. **Thompson PM**, Vidal C, Giedd JN, Blumenthal J, Gochman P, Nicolson R, Toga AW, Rapoport JL (2001). *Mapping Adolescent Brain Change Reveals Dynamic Profile of Accelerated Gray Matter Loss in Childhood-Onset Schizophrenia*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
1173. Vidal C, Rapoport JL, Giedd JN, Blumenthal J, Gochman P, Nicolson R, Toga AW, **Thompson PM** (2001). *Dynamic Patterns of Accelerated Gray Matter Loss are Linked with Clinical and Cognitive Change in Childhood-Onset Schizophrenia*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
1174. Sowell ER, Tessner KD, **Thompson PM**, Narr KL, Cannon TD, Toga AW (2001). *Brain Growth and Atrophy: Relationships between Gray Matter Thinning and Cortical Surface Morphology During Normal Development and Aging*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
1175. Sowell ER, **Thompson PM**, Tessner KD, Toga AW (2001). *Accelerated Brain Growth and Cortical Gray Matter Thinning are Inversely Related during Post-Adolescent Frontal Lobe Maturation*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
1176. Narr KL, Bilder RM, **Thompson PM**, Dail R, Khaledy M, Toga AW (2001). *3D Cortical Surface Asymmetry and Variability Profiles in First-Episode Schizophrenia*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.

#### **International Schizophrenia Congress 2001:**

1177. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Huttunen M, Lönqvist J, Standertskjöld-Nordenstam C-G (2001). *A Probabilistic Atlas of Cortical Gray Matter Changes in Monozygotic Twins Discordant for Schizophrenia*, International Congress on Schizophrenia Research, April 28-May 2, 2001.

#### **Society for Industrial and Applied Mathematics (SIAM) 2001:**

1178. **Thompson PM** (2001). *Mathematical/Computational Challenges in Population-Based Brain Mapping*, Annual Conference of the Society for Industrial and Applied Mathematics (SIAM): 1st SIAM Conference on Life Sciences, Minisymposium: Mapping the Human Brain, Boston, MA, Sept. 22-26, 2001.
1179. **Thompson PM** (2001). *Tensor Calculus for Surface Comparisons*, Annual Conference of the Society for Industrial and Applied Mathematics (SIAM): 1st SIAM Conference on Imaging Science, Minisymposium MS20: Comparative Mathematical Structures in 3D Medical Image Analysis; Chair: Fred L. Bookstein, Boston, MA, Sept. 22-26, 2001.

#### **SIGGRAPH 2001:**

1180. Bacheller J, **Thompson PM**, Holmes CJ, Toga AW (2001). *Tensor Visualization of Brain Variability*, SIGGRAPH 2001 Computer Graphics Conference, Los Angeles, CA, 2001.

1181. Bacheller J, **Thompson PM**, Holmes CJ, Toga AW (2001). *Animating High-Dimensional Tensor Datasets to Visualize Brain Variability*, Video with Abstract, SIGGRAPH 2001 Computer Graphics Conference, Los Angeles, CA, 2001.

**Institute for Pure and Applied Mathematics 2001:**

1182. **Thompson PM** (2001). *Mathematical Challenges in Population-Based Brain Mapping*, Workshop on Mathematics and Modeling in Brain Mapping, Proceedings of the 1<sup>st</sup> IPAM Conference on Imaging in Medicine and Neurosciences, UCLA Institute for Pure and Applied Mathematics, May 21-25, 2001.

**Society for Neuroscience 2001:**

1183. **Thompson PM**, Cannon TD, Narr KL, van Erp T, Khaledy M, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Kaprio J, Dail R, Zoumalan CI, Toga AW (2001). *Genetic Influences on Human Brain Structure Detected and Mapped with a Population-Based Brain Atlas Encoding Patterns of Heritability*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1184. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Narr KL, Beatty J, Khaledy M, Zoumalan CI, Dail R, Kaprio J (2001). *Heteromodal Gray Matter Deficits in Twins Discordant for Schizophrenia Isolated Using Cortical Pattern Matching*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1185. Narr KL, van Erp T, Cannon TD, Woods RP, **Thompson PM**, Jang S, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Mazziotta JC, Toga AW (2001). *A Twin Study of Genetic Contributions to Hippocampal Morphology in Schizophrenia*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1186. Vidal CN, Rapoport JL, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW, **Thompson PM** (2001). *Dynamic Wave of Abnormal Adolescent Gray Matter Loss is Linked with Clinical and Cognitive Deficits in Childhood-Onset Schizophrenia*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1187. Frew AJ, Alger JR, Cloughesy TF, Rubino G, Liau L, Jouben-Steele LM, Toga AW, **Thompson PM** (2001). *3D Mapping and Correlation of Growth Rates, MR Spectroscopy, and Pathology in Glioma Patients using Intraoperative MRI*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1188. Sowell ER, **Thompson PM**, Mattson SN, Tessner KD, Jernigan TL, Riley EP, Toga AW (2001). *Regional Brain Shape Abnormalities Persist into Adolescence After Heavy Prenatal Alcohol Exposure*, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1189. Blanton RE, Levitt JG, McCracken JT, Fadale D, Sporty M, Lee M, Nobel D, Sadoun T, Lo C, Vahabnezhad E, Cook P, **Thompson PM**, Toga AW (2001). *The Measurement of Orbito-frontal Volumes During Normal Childhood and Adolescence*, Presentation 696.13, 31<sup>st</sup> International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

**American College of Neuropsychopharmacology (ACNP) 2001:**

1190. Rapoport JL, **Thompson PM**, Vidal CN, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW (2001). *Mapping Adolescent Brain Change Reveals Dynamic Wave of Accelerated Gray Matter Loss in Childhood-Onset Schizophrenia*, Proc. Amer. Coll. Neuropsychopharmacology (ACNP), Waikoloa Village, HI, December 9, 2001.

1191. Giedd JN, Molloy E, Vaituzis AC, Blumenthal J, Clasen L, Liu H, Castellanos FX, **Thompson PM** (2001). *Heritability of Cerebral Cortex Morphometry during Childhood and Adolescence*, Proc. Amer. Coll. Neuropsychopharmacology (ACNP), Waikoloa Village, HI, December 12, 2001.

**American Academy of Child and Adolescent Psychiatry (AACAP) 2001:**

1192. Blanton RE, Levitt J, **Thompson PM**, Sadoun T, McCracken J, Toga AW (2001). *Significant Differences in Language-Related Regions in Autism*, American Academy of Child and Adolescent Psychiatry (AACAP), 2001.

**Institute for Pure and Applied Mathematics 2002:**

1193. **Thompson PM** (2002). *Analysis of Brain Images*, Proceedings of the 1<sup>st</sup> IPAM Conference on Scientific Data Mining, Chandrika Kamath (ed.), UCLA Institute for Pure and Applied Mathematics, January 14-18, 2002.

1194. Zeineh MM, Engel S, **Thompson PM**, Wilson C, Fried I, Bookheimer SY (2002). *Cortical Unfolding of the Medial Temporal Lobe in Normals and Epileptics*, Invited Presentation, Memory Symposium, Proceedings of the 2002 Cognitive Neuroscience Meeting, April 2002.

**International Society for Magnetic Resonance in Medicine (ISMRM) 2002:**

1195. Frew AJ, **Thompson PM**, Cloughesy TF, Toga AW, Alger JR (2002). *Assessment of 3-Tesla Parametric T2 Reproducibility After Automated Image Registration in Longitudinal Studies of Brain Tumors*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2002, Honolulu, HI, May 2002.

**Human Brain Mapping 2002:**

1196. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Dittmer S, Mega MS, Semple J, Herman D, Hong MS, Doddrell DM, Toga AW (2002). *Dynamically Spreading Wave of Gray Matter Loss Visualized in Alzheimer's Disease using Cortical Pattern Matching and a Brain Atlas Encoding Atrophic Rates*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1197. Vidal CN, Rapoport JL, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW, **Thompson PM** (2002). *A New Method for Mapping the Linkage Between Abnormal Gray Matter Loss and the Clinical and Cognitive Deficits in Childhood-Onset Schizophrenia*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1198. Frew AJ, **Thompson PM**, Cloughesy TF, Toga AW, Alger JR (2002). *Automated Detection of Subtle Between-Study Alterations in Parametric Transverse Relaxation Time in Brain Tumor and Normal Brain Tissue*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1199. Zeineh MM, Engel SA, **Thompson PM**, Bookheimer SY (2002). *Dynamic Changes in the Human Hippocampus During Memory Consolidation of Face-Name Pairs*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

**State of Missouri Education Summit 2002:**

1200. **Thompson PM** (2002). *Imaging the Developing Brain in Children and Teenagers: What Are We Learning?*, State of Missouri Education Summit 2002, Lake of the Ozarks, Osage Beach, MO, April 26, 2002.

**American Academy of Child and Adolescent Psychiatry (AACAP) 2002:**

1201. **Thompson PM**, Vidal CN, Giedd JN, Cannon TD, Gogate N, Gochman P, Blumenthal J, Nicolson R, Toga AW, Rapoport JL (2002). *Brain Imaging in Normal and Abnormal Development: New Approaches*, Proc. American Academy of Child and Adolescent Psychiatry (AACAP), San Francisco, CA, October 2002.

1202. Hamilton JD, Asarnow R, Gogate N, Rapoport JL, **Thompson PM** (2002). *The Neurobiology of Early-Onset Schizophrenia: An Update*, Proc. American Academy of Child and Adolescent Psychiatry (AACAP), San Francisco, CA, October 2002.

**Australasian Society for Psychiatric Research (ASPR) 2002:**

1203. Johnston P, Schall U, Ward P, Lagopoulos J, Rasser P, Thienel R, **Thompson PM** (2002). *An fMRI Investigation of Executive Function in Early Psychosis*, Proc. Australasian Society for Psychiatric Research (ASPR), Australia National University, Canberra, Australia, December 4-6 2002.

**American Neuropsychiatric Association (ANPA) 2003:**

1204. **Thompson PM** (2003). *Imaging of Brain Development and Schizophrenia: Recent Advances and Challenges*, Invited Symposium on Neuropsychiatry of Neurodevelopment, Organizer: Allan Reiss, M.D., Proc. 14<sup>th</sup> Ann. Conference of the American Neuropsychiatric Association (ANPA), Honolulu, HI, February 2-4, 2003.

**International Schizophrenia Congress 2003:**

1205. Rasser PE, Johnston P, Lagopoulos J, Ward PB, Schall U, Thienel R, Bender S, **Thompson PM** (2003). *Analysis of fMRI BOLD activation during the Tower of London Task using Cortical Pattern Matching*, International Congress for Schizophrenia Research (ICSR), Colorado Springs, Colorado, March 29-April 2, 2003.

**International Society for Magnetic Resonance in Medicine (ISMRM) 2003:**

1206. Frew AJ, **Thompson PM**, Tseng PB, Cloughesy TF, Toga AW, Alger JR (2003). *T1, Proton Density T2 and Parametric T2 Reproducibility After Automated Image Registration in Longitudinal Studies of Brain Tumors*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2003, Toronto, Canada, May 10-16, 2003.

1207. Vidal CN, DeVito TJ, Hayashi KM, Drost DJ, Williamson PC, Craven-Thuss B, Herman D, Sui Y, Toga AW, Nicolson R, **Thompson PM** (2003). *Detection and Visualization of Corpus Callosum Deficits in Autistic Children using Novel Anatomical Mapping Algorithms*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2003, Toronto, Canada, May 10-16, 2003.

**Dartmouth College fMRI Workshop 2003:**

1208. **Thompson PM** (2003). *Mathematical Challenges and New Directions in Computational Neuroanatomy*, Tutorial Presentation, 3<sup>rd</sup> Annual fMRI Data Center (fMRIDC) Summer Workshop, Dartmouth College, Hanover, New Hampshire, July 7-9, 2003.

**Human Brain Mapping 2003:**

1209. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Gravano D, Dittmer S, Doddrell DM, Toga AW (2003). *Improved Detection and Mapping of Dynamic Hippocampal and Ventricular Change in Alzheimer's Disease Using 4D Parametric Mesh Skeletonization*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.

1210. Vidal, C.N., Rapoport, J.L., Gochman, P., Giedd, J.N., Blumenthal, J., Gogtay, N., Nicolson, R., Toga, A.W., **Thompson, P.M.** (2003). *Mapping Limbic System Deficits in Adolescents with Schizophrenia Using Novel Computational Anatomy Techniques*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1211. Vidal, C.N., DeVito, T.J., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Herman, D., Sui, Y., Toga, A.W., Nicolson, R., **Thompson, P.M.** (2003). *Mapping Corpus Callosum Deficits in Autistic Children using Novel Computational Anatomy Algorithms*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1212. Nicolson, R., DeVito, T.J., Vidal, C.N., Sui, Y., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Pavlosky, W., Toga, A.W., **Thompson, P.M.** (2003). *Magnetic Resonance Imaging of the Hippocampus in Males with Autism*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1213. Rasser, P., Ward, P., Johnston, P., Lagopoulos, J., Schall, U., Thienel, R., Bender, S., **Thompson, P.M.** (2003). *fMRI BOLD activation during the Tower of London task using Cortical Pattern Matching*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1214. Sowell, E.R., **Thompson, P.M.**, Welcome, S.E., Henkenius, A.L., Toga, A.W., Peterson, B.S. (2003). *Cortical Abnormalities in Children and Adolescents with Attention Deficit Hyperactivity Disorder*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1215. Zeineh, M.M., Mazziotta, J.C., **Thompson, P.M.**, Engel, S.A., Bookheimer, S.Y. (2003). *Hippocampal Flat Maps of Cortical Thickness and Power*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1216. Narr, K.L., Bilder, R.M., Szeszko, P., **Thompson, P.M.**, Jang, S., Kim, S., Hayashi, K.M., Woods, R.P., Toga, A.W. (2003). *Mapping Regional Hippocampal Abnormalities in First Episode Schizophrenia*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1217. Gu, X., Wang, Y.L., Chan, T.F., **Thompson, P.M.**, Yau, S.T. (2003). *Brain Surface Conformal Mapping*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1218. Ballmaier, M., Kumar, A., Sowell, E.R., **Thompson, P.M.**, Blanton, R.E., Lavretsky, H., Welcome, S.E., Peterson, J., Pham, D., DeLuca, H., Toga, A.W. (2003). *Cortical Abnormalities in Elderly Depressed Patients*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1219. Luders, E., Rex, D.E., Narr, K.L., Woods, R.P., Jancke, L., **Thompson, P.M.**, Mazziotta, J.C., Toga, A.W. (2003). *Relationships between Sulcal Asymmetries and Corpus Callosum Morphometry: Gender and Handedness Effects*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1220. Blanton, R.E., Levitt, J., Peterson, J., Sadoun, T., To, D., Lee, M., **Thompson, P.M.**, McCracken, J., Toga, A.W. (2003). *IQ Correlations with Regional Gray Matter Decreases in Normal Children*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.

### Spring Brain Conference 2003:

1221. Woolsey, T., Mintun, M., Gollub, R., **Thompson, P.M.** (2003). *Brain Images of Mental Illness*, Invited Workshop, Proc. 14th Annual Spring Brain Conference, Sedona, Arizona, March 12-15, 2003.
1222. **Thompson, P.M.** (2003). *Brain Structure Changes in Populations, Families, and Individuals with Schizophrenia*, Proc. 14th Annual Spring Brain Conference, Sedona, Arizona, March 12-15, 2003.



### **IPSEN Foundation Conference 2003:**

1223. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamics of Gray Matter Loss in Alzheimer's Disease, Mapped with a Population Based Brain Atlas*, Proc. 2003 IPSEN Foundation Conference, "The Living Brain and Alzheimer's Disease," [Hyman, B., Demonet, J.F., Christen, Y., eds.], Paris, France, March 17, 2003.

### **Society for Neuroscience 2003:**

1224. **Thompson PM**, Hayashi KM, Hong MS, Herman DH, Simon S, Toga AW, London ED (2003). *Methamphetamine-Induced Deficits in the Human Hippocampus Detected Using Novel Computational Anatomical Mapping Algorithms and MRI*, 33rd International Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

1225. Vidal CN, Rapoport JL, Hayashi KM, Sui Y, Nguyen T, Giedd JN, Gochman P, Blumenthal J, Gogtay N, Nicolson R, Toga AW, **Thompson PM** (2003). *Mapping Hippocampal and Ventricular Changes in Adolescents with Schizophrenia using Novel Computational Anatomy Techniques*, 33rd International Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

1226. Gogtay N, Lusk L, Hayashi KM, Giedd JN, Classen L, Vaituzis C, Nugent TF, Blumenthal J, Vidal CN, Toga AW, Rapoport JL, **Thompson PM** (2003). *Dynamics of Human Cortical Development Tracked Using Cortical Surface Mapping and Long-Interval Serial MRI*, 33rd International Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

1227. Nicolson R, Vidal CN, DeVito TJ, Hayashi KM, Drost DJ, Williamson PC, Craven-Thuss B, Herman DH, Sui Y, Toga AW, **Thompson PM** (2003). *Corpus Callosum Deficits in Autism Detected and Visualized using Statistical Anatomic Maps*, 33rd International Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

1228. Sowell ER, Leonard CM, **Thompson PM**, Lombardino LJ, Welcome SE, Toga AW (2003). *Longitudinal Mapping of Brain Maturation During Childhood*, 33rd International Meeting of the Society for Neuroscience, New Orleans, LA, November 8-12, 2003.

### **American Academy of Child and Adolescent Psychiatry (AACAP) 2003:**

1229. Nicolson, R., Vidal, C.N., DeVito, T.J., Sui, Y., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Toga, A.W., **Thompson, P.M.** (2003). *Hippocampal Mapping in Autism*, Annual Meeting of the American Academy of Child and Adolescent Psychiatry (AACAP), Miami Beach, FL.

### **American Association for Geriatric Psychiatry (AAGP) 2004:**

1230. Siddarth, P., Ercoli, L.M., **Thompson, P.M.**, Hayashi, K.M., Small, G.W. (2004). *Apolipoprotein Epsilon-4 Genetic Risk for Alzheimer's Disease is Associated with Accelerated Loss in the Ratio of Gray to White Matter Volume*, Annual Meeting of the American Association for Geriatric Psychiatry (AAGP), Baltimore, MD, Feb. 21-24 2004.

1231. Ercoli, L.M., Siddarth, P., **Thompson, P.M.**, Hayashi, K.M., Small, G.W. (2004). *Reduced Cerebral Gray Matter Volumes May Have Prognostic Significance for Memory Decline in Healthy Older Adults*, Annual Meeting of the American Association for Geriatric Psychiatry (AAGP), Baltimore, MD, Feb. 21-24 2004.

### **American College of Neuropsychopharmacology (ACNP) 2004:**

1232.Siddarth, P., Ercoli, L.M., **Thompson, P.M.**, Hayashi, K.M., Small, G.W. (2004). *The Apolipoprotein Epsilon 4 Genetic Risk for Alzheimer's Disease, Memory Decline and Cerebral Gray Matter Atrophy in Healthy Older Adults*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Puerto Rico, 2004.

1233.Nicolson, R., Vidal, C.N., DeVito, T.J., Sui, Y., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Toga, A.W., **Thompson, P.M.** (2004). *Magnetic Resonance Imaging of the Hippocampus in Males with Autism*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Puerto Rico, 2004.

#### **International Society for Intelligence Research (ISIR) 2003:**

1234.**Thompson PM** (2003). *Genetics, Brain Structure, and IQ*, Proc. International Society for Intelligence Research, Newport Beach, CA, Dec. 4-6 2003.

1235.Haier, R.J., **Thompson, P.M.**, Prabakaran, V., Gray, J., Neubauer, A., Stough, C., Jung, R.E. (2003). *Brain Imaging Studies of Intelligence: Do We Finally Know Where Intelligence Is in the Brain?*, Haier Symposium, Proc. International Society for Intelligence Research, Newport Beach, CA, Dec. 4-6 2003.

#### **Australasian Society for Psychiatric Research (ASPR) 2003:**

1236.Rasser P, Johnston P, Ward P, Schall U, **Thompson PM** (2003). *Co-registration of structural and functional deficits of first-episode schizophrenia patients on probabilistic cortical surface maps*. Conference of the Australasian Society for Psychiatric Research, Christchurch, New Zealand, December 2003.

#### **American Mathematical Society 2004:**

1237.**Thompson PM** (2004). *Mathematical/Computational Challenges in Brain Mapping*, Proc. American Mathematical Society, Phoenix, AZ, January 2004.

#### **SPIE Medical Imaging 2004:**

1238.Wang, Y.L., Gu, X., Chan, T., **Thompson, P.M.**, Yau, S.T. (2004). *Intrinsic Brain Surface Conformal Mapping using a Variational Method*, Proc. SPIE International Symposium on Medical Imaging, Conference on Image Processing, San Diego, CA, Feb. 14-19, 2004, JM Fitzpatrick and M Sonka, eds., Proc. SPIE 5370:241-252.

#### **Biological Psychiatry 2004:**

1239.Narr KL, **Thompson PM**, Bilder RM, Woods RP, Rex DE, Szeszko P, Robinson D, Wang YP, DeLuca H, Toga AW (2004). *Regional Cortical Gray Matter Reductions in First Episode Schizophrenia*, International Conference of the Society of Biological Psychiatry, New York, NY, 2004.

#### **Human Brain Mapping 2004:**

1240.**Thompson PM**, Hayashi KM, Simon SL, Geaga JA, Hong MS, Sui Y, Lee JY, Toga AW, Ling W, London ED (2004). *Detection and Mapping of Abnormal Brain Structure in Methamphetamine Users*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.

1241.**Thompson PM**, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Bacheller JD, Eckert MA, Toga AW, Reiss AL (2004). *Fractal Complexity of the Human Cortex is Increased in Williams Syndrome*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.

1242.Narr KL, Bilder RM, Woods RP, Rex DE, Szeszko P, Robinson D, Wang YP, DeLuca H, Toga AW, **Thompson PM** (2004). *Mapping Cortical Thickness and Gray Matter Density in First Episode Schizophrenia*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.

1243. Leow AD, Protas HD, Huang SC, **Thompson PM** (2004). *Evaluation of a Landmark Curve Matching Technique in Brain Mapping Based on the Level Set Method*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1244. Vidal CN, Rapoport JL, Hayashi KM, Geaga JA, Sui Y, Nguyen T, McLemore L, Li VS, Giedd JN, Gochman P, Blumenthal J, Gogtay N, Nicolson R, Toga AW, **Thompson PM** (2004). *Surface-Based Computational Anatomy Techniques Reveal Ventricular and Hippocampal Abnormalities in Adolescents with Schizophrenia*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1245. Rasser PE, Johnston P, Lagopoulos J, Ward PB, Schall U, Thienel R, Bender S, Toga AW, **Thompson PM** (2004). *Analysis of First-Episode Schizophrenia Patients' sMRI and fMRI BOLD Activation during the Tower of London Task using Cortical Pattern Matching*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1246. Frew AJ, **Thompson PM**, Cloughesy TF, Tseng PB, Toga AW, Alger JR (2004). *A 3D Probabilistic Glioblastoma Multiforme Location Atlas*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1247. Frew AJ, **Thompson PM**, Cloughesy TF, Bier D, Toga AW, Alger JR (2004). *Parametric Transverse Relaxation Time Measures Are More Consistent Across Subjects than T2-Weighted Image Intensity Measures*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1248. Sowell ER, Peterson BS, **Thompson PM**, Yoshii J, Kan E, Toga AW (2004). *Gender Differences in Cortical Thickness Mapped in 176 Healthy Individuals Between 7 and 87 Years*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1249. O'Hare ED, Kan ED, Yoshii J, Mattson SN, Riley EP, **Thompson PM**, Toga AW, Sowell ER (2004). *Mapping Cerebellar Vermal Abnormalities in Severe Prenatal Alcohol Exposure: Localized Dysmorphology of the Anterior Vermis and Primary Fissure*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1250. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2004). *Volumetric Harmonic Brain Mapping using a Variational Method*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1251. Blanton RE, Levitt JG, Peterson JR, Singerman J, Lee M, Fadale D, **Thompson PM**, McCracken JT, Toga AW (2004). *Localization of Developmental and Cognitive Effects in the Prefrontal Cortex*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1252. Gogtay N, Ordonez A, Herman D, Hayashi KM, Vaituzis C, Sporn A, Giedd JN, Greenstein D, **Thompson PM**, Rapoport JL (2004). *Dynamic Mapping of Cortical Brain Development in Pediatric Bipolar Illness*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1253. Nugent TF, **Thompson PM**, Herman D, Hayashi KM, Giedd JN, Greenstein D, Classen L, Rapoport JL, Gogtay N (2004). *Dynamic Mapping of Human Hippocampal Development during Childhood and Adolescence*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.

#### **Society for Nuclear Medicine 2004:**

1254. Protas HD, Huang SC, Leow AD, **Thompson PM** (2004). *Evaluation of a Level-Set Based Method for Brain Surface Mapping*, Society for Nuclear Medicine 2004, Philadelphia, PA, June 19-23 2004.

#### **CCCT Conference 2004:**

1255. Wang YL, Gu X, **Thompson PM**, Yau ST (2004). *Hippocampal Morphometry Studied Using Brain Conformal Mapping*, International Conference on Computing, Communications and Control Technologies, Austin, Texas, August 14-17 2004.

#### **Conference of the International Society for Neuropsychopharmacology (CINP) 2004:**

1256. Van Erp TGM, Thompson PM, Kieseppä T, Tran HL, Correll CM, Hayashi KM, Haukka J, Paronen T, Poutanen VP, Kaprio J, Lönqvist J, Toga AW, Cannon TD (2004). *Brain Morphology in Twins Discordant for Bipolar Disorder*, 24<sup>th</sup> Conference of the International Society for Neuropsychopharmacology (CINP), Paris, France, June 20-24, 2004.

#### **Notre Dame Conference 2004:**

1257. **Thompson PM** (2004). *Mapping the Brain in Large Human Populations*, Proc. Notre Dame Conference on Quantitative Methodologies, Univ. of Notre Dame, Indiana, May 27-29, 2004.

#### **Human Brain II 2004:**

1258. **Thompson PM** (2004). *Mapping Human Brain Development: Longitudinal Neuroimaging and Genetic Studies*, Human Brain II - Modelling and Remodelling, St. Lucia, Rome, Italy, October 6-9, 2004.

#### **Society for Neuroscience 2004:**

1259. **Thompson PM**, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Bacheller JD, Eckert MA, Toga AW, Reiss AL (2004). *Fractal Complexity and Thickness of the Human Cortex are Increased in Williams Syndrome*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1260. Lin JJ, Salamon N, Lee AD, Dutton RA, Geaga JA, Hayashi KM, London ED, Toga AW, Engel J, **Thompson PM** (2004). *Mapping of Neocortical Gray Matter Loss in Patients with Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1261. Salamon N, Lin JJ, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Toga AW, Engel J, **Thompson PM** (2004). *Contralateral Hippocampal Atrophy is Associated with Poor Surgical Outcome in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1262. Gaser C, Luders E, Wang H, Toga AW, **Thompson PM** (2004). *Cortical Complexity Measured Via Regional Surface Shape*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1263. Hayashi KM, **Thompson PM**, Simon SL, Geaga JA, Hong MS, Sui Y, Lee JY, Toga AW, Ling W, London ED (2004). *Mapping Abnormal Brain Structure Associated with Methamphetamine Abuse*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1264. Bearden CE, van Erp TGM, Tran H, Geaga JA, Hayashi KM, Glahn DG, Cannon TD, Emanuel BS, **Thompson PM** (2004). *Mapping Cortical Gray Matter Abnormalities in the 22q11 Deletion Syndrome*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1265. Sowell ER, **Thompson PM**, Yoshii J, Kan E, Toga AW, Peterson BS (2004). *Gray Matter Thickness Abnormalities Mapped in Children with Tourette Syndrome*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

1266. Davis SW, Hayashi KM, Meltzer CC, **Thompson PM**, Toga AW, Lopez OL, Becker JT (2004). *Mapping Hippocampal Volume Changes in Alzheimer's Disease and Mild Cognitive Impairment*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.
1267. O'Hare ED, Kan E, Yoshii J, Mattson SN, Riley EP, **Thompson PM**, Toga AW, Sowell ER (2004). *Cognitive Correlates of Anterior Vermal Dymorphology in Severe Prenatal Alcohol Exposure*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.
1268. Luders E, Narr KL, Zaidel E, **Thompson PM**, Jancke L, Gaser C, Toga AW (2004). *Asymmetries in the Corpus Callosum and the Influence of Gender*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

**American College of Neuropsychopharmacology (ACNP) 2004:**

1269. London ED, Berman SM, Voytek BT, Simon SL, Monterosso J, Geaga JA, Hong MS, Hayashi KM, **Thompson PM**, Mandelkern MA, Brody AL, Rawson RA, Ling W (2004). *Cerebral Metabolic Dysfunction and Impaired Vigilance in Recently Abstinent Methamphetamine Abusers*, 43<sup>rd</sup> Annual Meeting of the **American College of Neuropsychopharmacology (ACNP)**, San Juan, Puerto Rico, Dec. 12-16 2004.

**American Association for Geriatric Psychiatry (AAGP) 2004:**

1270. Butters MA, Hayashi KM, Aizenstein HJ, Seaman J, Figurski J, Zmuda MD, Meltzer CC, Reynolds CF, **Thompson PM**, Becker JT (2004). *Three dimensional volume measurement reveals decreased volume of the caudate nucleus in late-life depression*, **American Association for Geriatric Psychiatry**, 2004.

**8<sup>th</sup> Biennial Australasian Schizophrenia Conference 2004:**

1271. Rasser PE, Peck G, Johnston PJ, **Thompson PM**, Ward PB, Schall U (2004). *fMRI BOLD Cerebellar Activation of First-Episode Schizophrenia Patients during the Tower of London Task*, **8<sup>th</sup> Biennial Australasian Schizophrenia Conference**, Sept. 22-24 2004.

**Human Brain Mapping Conference 2005:**

1272. **Thompson PM** (2005). *Mapping Genetic Influences on Brain Structure and Intelligence*, Breakfast Symposium, Toronto, Canada, 2005.

**International Congress on Schizophrenia Research 2005:**

1273. Szeszko PR, Robinson D, Narr KL, Kane JM, **Thompson PM**, Woods RP, Rex DE, Wang YP, DeLuca H, Toga AW, Bilder RM (2005). *Decreased Frontal Cortical Thickness in Patients with First-Episode Schizophrenia who are Nonresponsive to Atypical Antipsychotics*, International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005.
1274. Narr KL, Toga AW, Szeszko PR, **Thompson PM**, Woods RP, Robinson D, Sevy S, Wang YP, Schrock K, Bilder RM (2005). *Cortical thinning in cingulate and occipital cortices in first episode schizophrenia*, International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005.
1275. Rasser PE, Peck G, Johnston PJ, **Thompson PM**, Ward PB, Schall U (2004). *fMRI BOLD Cerebellar Activation of First-Episode Schizophrenia Patients during the Tower of London Task*, International Congress on Schizophrenia Research, Savannah, GA, April 2-6, 2005.

**American Academy of Neurology 2005:**

1276. **Thompson PM**, Dutton RA, Lu A, Lee SE, Lee JY, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Mapping 3-Dimensional Changes in Corpus Callosum and Ventricular Structure in HIV/AIDS Patients*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.
1277. Becker JT, Hayashi KM, Seaman JL, Lopez OL, Aizenstein HJ, **Thompson PM** (2005). *Alteration in Hippocampal and Caudate Nucleus Structure in HIV/AIDS Revealed by 3-Dimensional Surface Mesh Analysis*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.
1278. Apostolova L, **Thompson PM**, Hayashi KM, Dinov ID, Toga AW, Cummings JL (2005). *Cortical Atrophy Pattern Predicts Conversion from Mild Cognitive Impairment to Alzheimer Dementia*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.
1279. Apostolova L, **Thompson PM**, Dutton RA, Dinov ID, Toga AW, Cummings JL (2005). *Hippocampal Size Can Predict the Outcome of Mild Cognitive Impairment*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.

#### **American Geriatric Society 2005:**

1280. Roybal DJ, Dutton RA, Hayashi, KM, de Zubicaray GI, O'Dowd BS, Chalk JB, Janke AL, McMahon KL, Cowin GJ, Strudwick M, Bryant MK, Doddrell DM, **Thompson PM** (2005). *Mapping ApoE4 and Gender Effects on Hippocampal Atrophic Rates: A Longitudinal MRI Study of Normal Aging*, 2005 Annual Scientific Meeting of the American Geriatric Society (AGS), Orlando, FL, May 11-15, 2005.

#### **Human Brain Mapping Conference 2005:**

1281. **Thompson PM**, Dutton RA, Hayashi KM, Lu A, Lee SE, Lee JY, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *3D Cortical Thickness Reductions Mapped in HIV/AIDS Correlate with Cognitive Impairment and Immune System Deterioration*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1282. Leow AD, Lee AD, Chiang MC, Dutton RA, Hayashi KM, Huang SC, Becker JT, Davis SW, Toga AW, **Thompson PM** (2005). *Analysis of Regional Brain Atrophy in a Single Case of Semantic Dementia Using Serial MRI with Inverse-Consistent Non-Rigid Registration*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1283. Chiang MC, Reiss AL, Eckert MA, Dutton RA, Lee AD, Alagband Y, Bellugi U, Galaburda A, Korenberg J, Mills DL, Toga AW, **Thompson PM** (2005). *Tensor-Based Morphometry of the Corpus Callosum in Williams Syndrome*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1284. Lin JJ, Salamon N, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Luders E, Toga AW, Engel J, **Thompson PM** (2005). *Mapping Reduced Cortical Thickness and Complexity in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1285. Vidal CN, Frenoux E, Nicolson R, Boire JY, DeVito TJ, Geaga JA, Hayashi KM, Drost DJ, Williamson PC, Henry JD, Toga AW, **Thompson PM** (2005). *3D Mapping of the Lateral Ventricles in Autism*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1286. Soares JC, Bearden CE, Dalwani M, Hayashi KM, Lee AD, Glahn DC, Nicoletti M, Trakhenbroit M, Brambilla P, Sassi RB, Mallinger AG, Frank E, Kupfer D, **Thompson PM** (2005). *Cortical Gray Matter Density Increases in Patients with Bipolar Disorder*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.

1287. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SE, Lee JY, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Mapping 3D Ventricular Changes in HIV/AIDS with Manual and Fully-Automated Tracings*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1288. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SE, Lee JY, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Dementia-Associated Ventricular Volume Changes in a Community Cohort*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1289. Nugent TF, **Thompson PM**, Herman DH, Giedd JN, Greenstein D, Classen L, Rapoport JL, Gogtay N (2005). *Dynamic Mapping of Hippocampal Development in Childhood Onset Schizophrenia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1290. Sabattoli F, Boccardi M, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2005). *Hippocampal Changes in Alzheimer, Fronto-Temporal and Lewy Body Dementia Patients: A Radial Atrophy Mapping Study*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1291. Narr KL, Bilder RM, Woods RP, **Thompson PM**, Szeszko P, Robinson D, Ballmeier M, Slater M, Messenger B, Wang YP, Toga AW (2005). *Mapping CSF Changes in First Episode Schizophrenia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1292. Wang Y, Lui LM, Chan TF, **Thompson PM** (2005). *Optimization of Conformal Parametrization using Landmarks*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1293. Wang Y, Gu X, Hayashi KM, Chan TF, **Thompson PM**, Yau ST (2005). *Brain Surface Parametrization with Holomorphic Differential Forms*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1294. Wang Y, Gu X, Chan TF, **Thompson PM**, Yau ST (2005). *Direct Painting Software for Tracing on 3D Brain Surfaces with Global Conformal Parametrization*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1295. Apostolova LG, **Thompson PM**, Hayashi KM, Dinov ID, Toga AW, Cummings JL (2005). *3D Surface-Based Gray Matter Density Analysis Can Predict Conversion from Mild Cognitive Impairment to Alzheimer's Dementia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1296. Apostolova LG, **Thompson PM**, Dutton RA, Dinov ID, Toga AW, Cummings JL (2005). *Hippocampal Radial Atrophy Mapping Can Predict the Outcome of Mild Cognitive Impairment*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1297. Lu LH, Leonard CM, **Thompson PM**, Kan E, Toga AW, Sowell ER (2005). *Mapping Structural Brain Changes Related to Improving Phonological Awareness in Normal Children*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1298. Luders E, Narr KL, **Thompson PM**, Rex DE, Woods RP, DeLuca H, Jancke L, Toga AW (2005). *Gender Effects on Cortical Thickness*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1299. Joshi A, Shattuck DW, **Thompson PM**, Leahy RM (2005). *Thin-Plate Spline Registration in the Intrinsic Geometry of the Cortical Surface*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.

1300. Gogtay N, Herman DH, Ordóñez A, Greenstein D, Hayashi KM, Nugent TF, Vaituzis C, Giedd JN, Classen L, Lelbenluft E, **Thompson PM**, Rapoport JL (2005). Cortical Brain Development in Early Onset Bipolar Illness Before and After the Illness Onset, 52nd Annual Meeting of the Society for Nuclear Medicine (SNM), Toronto, Canada, June 18-22, 2005.
1301. Protas H, **Thompson PM**, Hayashi KM, Huang SC (2005). Cortical Brain Surface Mapping for Studying Partial Volume Effects in Brain FDG-PET Images, 52nd Annual Meeting of the Society for Nuclear Medicine (SNM), Toronto, Canada, June 18-22, 2005.
1302. Ogren JA, Staba RJ, Lin JJ, Salamon N, Dutton RA, Luders E, Toga AW, Engel J, **Thompson PM**, Wilson C (2005). *Fast Ripple Oscillations Correlate with Increases in Hippocampal Atrophy in Unilateral Mesial Temporal Lobe Epilepsy*, American Epilepsy Society and American Clinical Neurophysiology Society Joint Annual Meeting, 2005, EPILEPSIA 46: 8-9 Suppl. 8 2005.
1303. Carmichael O, Aizenstein HJ, Davis SW, Becker JT, **Thompson PM**, Meltzer CC, Liu Y (2005). *Atlas-Based Hippocampus Segmentation In Alzheimer's Disease and Mild Cognitive Impairment*. 13<sup>th</sup> Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), South Beach, Miami, FL, May 7-13, 2005.

#### **Society for Neuroscience (SFN) 2005**

1304. **Thompson PM**, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Thinning of the Cerebral Cortex Visualized in HIV/AIDS Reflects CD4+ T-Lymphocyte Decline*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1305. Bearden CE, Dutton RA, van Erp TGM, Tran H, Zimmermann L, Geaga JA, Simon TJ, Ding L, Emanuel BS, **Thompson PM** (2005). *Cortical Thickness Maps in Children with 22q11.2 Deletion Syndrome*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1306. Soares JC, Bearden CE, Dalwani M, Hayashi KM, Lee AD, Nicoletti M, Trakhenbroit M, Glahn DC, Brambilla P, Sassi RB, Mallinger AG, Frank E, Kupfer D, **Thompson PM** (2005). Cortical Mapping of Gray Matter Density Bipolar Disorder Patients, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1307. Leow AD, **Thompson PM**, Hayashi KM, Bearden C, Nicoletti MA, Monkul SE, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2005). *Lithium Effects on Human Brain Structure Mapped Using Longitudinal MRI*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1308. Sowell ER, **Thompson PM**, Kan E, Toga AW, Luna B (2005). Mapping Relationships Between Frontal Cortical Activation and Cortical Thickness in Normal Adolescents, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1309. van Erp TGM, **Thompson PM**, Kiesepä TT, Zimmermann LL, Tran HL, Correll C, Wobbekind A, Haukka J, Partonen T, Kaprio J, Lönnqvist J, Poutanen VP, Toga AW, Cannon TD (2005). *Cortical Gray Matter Density in Twins Discordant for Bipolar I Disorder*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1310. Lu LH, Leonard CM, **Thompson PM**, Kan E, Jolley J, Toga AW, Sowell ER (2005). *Double Dissociation of Anatomical Behavioral Specialization Using MRI*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1311. Hua X, Leow AD, Levitt JG, **Thompson PM**, Toga AW (2005). *Detecting Brain Growth Patterns in Normal Children using Tensor-Based Morphometry*, 35<sup>th</sup> Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.



- 1312.Lu LH, Leonard CM, Dinov ID, **Thompson PM**, Kan E, Jolley J, Toga AW, Sowell ER (2005). *Differentiating Between Phonological Processing and Rapid Naming Using Structural MRI*, 34th Annual International Neuropsychological Society (INS) Meeting, Boston, MA, February 1-4, 2006.
- 1313.Bernstein MA, Lin C, Borowski BJ, Dale AM, Krueger G, Ward HA, Metzger GJ, Debbins JP, Scott KT, Fox NC, Hill DLG, Schuff N, Harvey DJ, Killiany R, Whitwell JL, Ward CP, Britson PJ, **Thompson PM**, Alexander GE, Glover GH, Mugler JP III, Weiner MW, Jack CR (2005). *Alzheimer's Disease Neuroimaging Initiative (ADNI): The MR Imaging Protocol*. Presented at State-of-the-Art Cardiovascular and Neuro MRI, a Joint Workshop of the ISMRM and CSR, Beijing, China, September 2005.

#### **American Academy of Neurology (AAN) 2006**

- 1314.Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). 3D Pattern of Brain Atrophy in HIV/AIDS Mapped using Tensor-Based Morphometry, Annual Meeting of the American Academy of Neurology, 2006.
- 1315.Cummings JL, Apostolova LG, Akopyan GG, Steiner CA, Partiali N, Toga AW, **Thompson PM** (2006). Structural Correlates of Apathy in Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1316.Apostolova LG, Dinov ID, Toga AW, Cummings JL, **Thompson PM** (2006). 3D Comparison of Hippocampal Atrophy in Mild Cognitive Impairment and Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1317.Apostolova LG, Steiner CA, Akopyan GG, Toga AW, Cummings JL, **Thompson PM** (2006). Structural Correlates of Apathy in Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1318.Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Longitudinal study of ventricular atrophy rates in the Cardiovascular Health Study*, Annual Meeting of the American Academy of Neurology, 2006.
- 1319.Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Cardiovascular Risk Factors Accelerate Ventricular Expansion in the Cardiovascular Health Study*, Annual Meeting of the American Academy of Neurology, 2006.
- 1320.Small GW, Kepe V, Ercoli L, Siddarth P, Miller K, Bookheimer SY, Lavretsky H, Cole G, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy NE, Phelps ME, Barrio JR (2006). *FDDNP-PET Scanning of Cerebral Amyloid and Tau Deposits in Mild Cognitive Impairment*, Annual Meeting of the American Academy of Neurology, 2006 [Late Breaking Science Abstract]; *Neurology*. 2006 Jul 11;67(1):186.
- 1321.Small GW, Kepe V, Ercoli L, Siddarth P, Vinters HV, Bookheimer SY, Cole GM, **Thompson PM**, Huang SC, Barrio JR (2006). *Cerebral FDDNP-PET Binding Increases in MCI and Aging as Neurodegeneration Progresses*, Annual Meeting of the Alzheimer's Imaging Consortium (AIC), 2006.

#### **Society of Biological Psychiatry (SOBP) 2006**

- 1322.Leow AD, Lu A, Lee AD, Gogtay N, Rapoport JL, Toga AW, **Thompson PM** (2006). *Tensor-Based Morphometry Reveals Growth Pattern Abnormalities in Childhood-onset Schizophrenia*, 61<sup>st</sup> Annual Scientific Convention of the Society of Biological Psychiatry (SOBP), Toronto, Ontario, Canada, May 18-20 2006.

#### **Human Brain Mapping Conference 2006**

1323. Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). 3D Pattern of Brain Atrophy in HIV/AIDS Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1324. Chiang MC, Reiss AL, Dutton RA, Lee AD, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). 3D Pattern of Brain Volume Reduction in Williams Syndrome Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1325. Apostolova LG, Lu P, Rogers S, Dutton RA, Toga AW, Cummings JL, **Thompson PM** (2006). 3D mapping of language impairments in clinical and pre-clinical Alzheimer's disease, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1326. Apostolova LG, Lu P, Rogers S, Dutton RA, Toga AW, Cummings JL, **Thompson PM** (2006). 3D mapping of Mini-Mental State Examination performance in clinical and pre-clinical Alzheimer's disease, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1327. Lee AD, Leow AD, Lu A, Reiss AL, Hall S, Toga AW, **Thompson PM** (2006). Brain Deficits Visualized in Fragile X Syndrome using Elastic Matching and Riemannian Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1328. Lu A, Leow AD, Lee AD, Gogtay N, Rapoport JL, Toga AW, **Thompson PM** (2006). Growth Pattern Abnormalities in Childhood-onset Schizophrenia Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1329. Foland LC, Altshuler LL, Leow AD, Lee AD, Lu A, Asuncion D, Toga AW, **Thompson PM** (2006). A Tensor-Based Morphometric Study of Bipolar Disorder, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1330. Lepore N, Chou YY, Brun CA, Mani M, de Zubicaray GI, McMahon K, Wright M, Martin N, Toga AW, **Thompson PM** (2006). Genetic Influences on Brain Structure and Fiber Architecture Mapped using Diffusion Tensor Imaging and Tensor-Based Morphometry in Twins, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1331. Bearden CE, Dutton RA, van Erp TGM, Zimmermann L, Tran H, Geaga JA, Simon TJ, Cannon TD, Emanuel BS, **Thompson PM** (2006). Abnormal Cortical Thickness and Cortical Asymmetry Mapped in Children with 22q11.2 Microdeletions, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1332. Pievani M, Testa C, Sabattoli F, Galluzzi S, Ettori M, Hayashi KM, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2006). Structural correlates of age at onset in Alzheimer's disease: a cortical pattern matching study, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1333. Rasser PR, Peck G, Johnston P, Schall U, **Thompson PM** (2006). Atlas of Cerebellar Cortical Gray Matter Thickness, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1334. Tosun D, Reiss AL, Prince JL, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). Measuring Increased Sulcal Complexity in Williams Syndrome using 3-D Cortical Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1335. Wang YL, Chiang MC, **Thompson PM** (2006). Surface Mutual Information for Brain Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.

1336. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). Automatic Landmark Tracking and the Optimization of Brain Conformal Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1337. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2006). Hippocampal Surface Analysis Using Spherical Harmonic Functions Applied to Surface Conformal Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1338. Wang YL, Gu XF, Chan TF, Toga AW, **Thompson PM**, Yau ST (2006). Brain Surface Conformal Parameterization with Algebraic Functions, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1339. Kochunov PK, **Thompson PM**, Lancaster JL (2006). Age-related trends in gray matter thickness, sulcal and white matter atrophy during normal aging, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1340. Narr KL, Woods RP, **Thompson PM**, Robinson D, Szeszko P, Dimtcheva T, Gurbani M, Toga AW, Bilder RM (2006). Relationships between IQ and regional cortical gray matter thickness in healthy adults, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1341. Narr KL, Bilder RM, Wang YP, Luders E, **Thompson PM**, Woods RP, Robinson D, Szeszko P, Toga AW (2006). Asymmetries of Cortical Thickness and Shape: Effects of Handedness, Gender and Schizophrenia, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1342. Ogren JA, Staba RJ, Lin JJ, Salamon N, Dutton RA, Fields T, Luders E, Toga AW, Engel J, **Thompson PM**, Wilson CL (2006). *Mapping Hippocampal Radial Atrophy and High Frequency Oscillations in Mesial Temporal Lobe Epilepsy*, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1343. O'Hare ED, Lu LH, Bookheimer SY, Kan E, McCourt ST, Poldrack RA, **Thompson PM**, Toga AW, Sowell ER (2006). Mapping Relationships Between Cortical Thickness and Cortical Activation During Verbal Working Memory in Normally Developing Children and Adolescents, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1344. Lu LH, O'Hare ED, Bookheimer SY, Kan E, McCourt ST, **Thompson PM**, Toga AW, Sowell ER (2006). Mapping Activation During Verbal Learning and Recall in Normally Developing Children, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.

**International Conference on Alzheimer's Disease (ICAD2006) and American Neurological Association (ANA) 2006**

1345. Apostolova LG, Clark DG, Zoumalan C, Steiner CA, McMurtray A, Dutton RA, Hayashi KM, Toga AW, Cummings JL, Mendez MF, **Thompson PM** (2006). *3D Mapping of Gray Matter Atrophy in Semantic Dementia and Frontal Variant Frontotemporal Dementia*, International Conference on Alzheimer's Disease (ICAD2006), Madrid, Spain, 2006.
1346. Apostolova LG, Dinov ID, Zoumalan C, Steiner CA, Siu E, Toga AW, Cummings JL, Small GW, **Thompson PM**, Phelps ME, Silverman DH (2006). *MR-Guided 3D PET Mapping of Longitudinal Changes in Regional Cerebral Metabolism of Normal Subjects*, International Conference on Alzheimer's Disease (ICAD2006), Madrid, Spain, 2006.

1347. Apostolova LG, Lu P, Rogers S, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2006). *3D mapping of verbal memory performance in clinical and pre-clinical Alzheimer's disease*, 131<sup>st</sup> Annual Meeting of the American Neurological Association, Chicago, IL, October 8-11, 2006.

#### **Society for Neuroscience (SFN) 2006**

1348. Apostolova LG, **Thompson PM**, Steiner CA, Akopyan GG, Dutton RA, Toga AW, Cummings JL (2006). *Comparison of 3D Cortical Gray Matter Atrophy in Amnesic Mild Cognitive Impairment and Alzheimer's Disease*, 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1349. Foland LC, Altshuler LL, Eisenberger NI, Townsend J, Bookheimer SY, **Thompson PM** (2006). *Deficient modulation of amygdala activity by the prefrontal cortex in bipolar mania*, 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1350. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *Three-dimensional patterns of hippocampal volume reduction in unmedicated patients with bipolar disorder*, 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1351. Hayashi KM, Gothelf D, Furfaro JA, Eckert MA, Hall SS, O'Hara R, Erba HW, Patnaik S, Golianu B, Kraemer HC, Piven J, **Thompson PM**, Reiss AL (2006). *Specific Abnormalities of Brain Development in Fragile X Syndrome are Associated with Autistic Behaviors*, 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1352. O'Hare ED, Lu LH, Bookheimer SY, Kan E, McCourt ST, Poldrack RA, **Thompson PM**, Toga AW, Sowell ER (2006). *Mapping Relationships Between Cortical Thickness and Functional Activation During Verbal Working Memory in Normal Children*, 36<sup>th</sup> Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1353. Boccardi M, Ganzola R, Sabattoli F, **Thompson PM**, Beltramello A, Geroldi C, Umiltà CA, Frisoni GB (2006). *Localization of hippocampal atrophy in frontotemporal dementia: a radial atrophy mapping study*, 5<sup>th</sup> International Conference on Frontotemporal Dementia, San Francisco, California, Sept. 6-8 2006.

1354. Ogren JA, Bragin A, Hoftman G, Staba RJ, Lin JJ, Salamon N, Dutton RA, Fields T, Toga AW, Engel J, **Thompson PM**, Wilson CL (2006). *Mapping Hippocampal Atrophy in Patients with Low-Voltage Fast and Hypersynchronous Seizure Onset Patterns*, Annual Conference of the American Epilepsy Society, 2006.

1355. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *3D mapping of hippocampal anatomy in unmedicated and lithium-treated bipolar patients*, Annual Meeting of the European College of Neuropsychopharmacology (ECNP), Paris, France, 16-20 September 2006.

#### **American College of Neuropsychopharmacology (ACNP) 2006:**

1356. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Glahn D, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *Three-dimensional mapping of hippocampal anatomy in unmedicated and lithium-treated patients with bipolar disorder*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.

1357. Becker JT, Juengst S, Lobaugh NJ, **Thompson PM**, Lopez OL, Aizenstein HJ (2006). *Brain Structural Abnormalities in HIV/AIDS Analyzed by the Method of Partial Least Squares*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.

1358. Bookheimer S, Braskie M, Burggren A, Miller K, Ercoli L, **Thompson PM**, Small GW (2006). *Functional MRI and Structure-Function Mapping in the Early Diagnosis of Alzheimer's Disease*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.
1359. Small GW, Kepe V, Ercoli LM, Siddarth P, Bookheimer SY, Miller KJ, Lavretsky H, Cole GM, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy N, Phelps ME, Barrio JR (2006). *PET Imaging of Brain Amyloid and Tau Deposits*. Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.
1360. Sun D, Phillips L, Velakoulis D, Yung A, McGorry PD, Wood SJ, van Erp TGM, **Thompson PM**, Toga AW, Cannon TD, Pantelis C (2007). *Progressive Brain Structural Changes Mapped as Psychosis Develops in 'At Risk' Individuals*, International Congress on Schizophrenia Research, Colorado Springs, CO, March 28-April 1, 2007, *SCHIZOPHRENIA BULLETIN* 33 (2): 356-357 MAR 2007.
1361. **Thompson PM** (2006). *Time-lapse Mapping of Brain Changes in Schizophrenia & over the Human Lifespan*, *International Journal of Neuropsychopharmacology* 9:S34, Suppl. 1 July 2006.
1362. Ringman JM, Dutton RA, Lai J, Medina L, Apostolova LG, Cummings JL, **Thompson PM** (2007). *Cortical Thinning Detected and Visualized in the Pre-Clinical Phase of Familial Alzheimer's Disease*, submitted to the American Academy of Neurology, 2007.
1363. Apostolova LG, Silverman DH, Green A, Rogers SA, **Thompson PM**, Dinov ID, Siu E, Toga AW, Cummings JL, Phelps ME, Small GW (2007). *ApoE4 Allele Influences longitudinal 3D hippocampal FDG-PET changes in nondemented elderly*, 2007 meeting of the American Academy of Neurology; *NEUROLOGY* 68 (12): A328-A328 Suppl. 1 MAR 20 2007.
1364. Carmichael O, **Thompson PM**, Dutton RA, Lu A, Lee S, Lee J, Kuller L, Lopez O, Aizenstein H, Meltzer C, Liu Y, Toga AW, Becker JT (2007). *Spatial mapping of ventricular changes related to dementia and mild cognitive impairment in a large community-based cohort*. 2007 meeting of the American Academy of Neurology; *NEUROLOGY* 68 (12): A328-A328 Suppl. 1 MAR 20 2007.
1365. Lu LH, Dapretto M, O'Hare ED, Kan E, McCourt ST, Jolley J, **Thompson PM**, Toga AW, Sowell ER (2007). *Right hemisphere involvement in language development observed with magnetic resonance imaging and neuropsychological measures*, 35th Annual International Neuropsychological Society (INS) Meeting, Portland, Oregon, February 7-10, 2007.

#### **Society of Biological Psychiatry (SOBP) 2007**

1366. London ED, Monterosso JR, Berman S, **Thompson PM**, Baicy K, Payer D (2007). *Deficits in Brain Structure and Function Associated with Methamphetamine Abuse: Impaired Cognitive Control and Therapeutic Approaches*, 62nd Annual Scientific Convention of the Society of Biological Psychiatry (SOBP), Westin Horton Plaza, San Diego, CA, May 17th-19th, 2007.
1367. Bearden CE, Soares JC, Klunder AD, Nicoletti M, Diershke N, Hayashi KM, Brambilla P, Sassi RB, Axelson D, Ryan N, Birmaher B, **Thompson PM** (2007). *Three-dimensional mapping of hippocampal anatomy in adolescents with early-onset bipolar disorder*, 62nd Annual Scientific Convention of the Society of Biological Psychiatry (SOBP), Westin Horton Plaza, San Diego, CA, May 17th-19th, 2007.

#### **Human Brain Mapping Conference (OHBM) 2007**

1368. Chiang MC, Reiss AL, Lee AD, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2007). *3D Pattern of Brain Abnormalities in Williams Syndrome Visualized using Tensor-Based Morphometry*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.

1369. Lepore N, Shi Y, Lepore F, Voss P, Fortin M, Lassonde M, Dinov ID, Toga AW, **Thompson PM** (2007). *Hippocampal Shape Differences Detected in Blind versus Sighted Subjects*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1370. Chou YY, Leporé N, de Zubicaray GI, Rose SE, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2007). *Automated Ventricular Mapping via Multiple Surface-based Atlases*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1371. Chou YY, Leporé N, de Zubicaray GI, Rose SE, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2007). *Ventricular Shape Differences Mapped Automatically in Those at Genetic Risk for Alzheimer's Disease*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1372. Foland LC, Altshuler LL, Eisenberger NI, Townsend J, Bookheimer SY, **Thompson PM** (2007). *Functional connectivity of fronto-limbic networks in bipolar mania during an affective faces task*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1373. Ganzola R, Boccardi M, Sabattoli F, **Thompson PM**, Hayashi KM, Klunder AD, Beltramello A, Bonetti M, Geroldi C, Umiltà C, Frisoni GB (2007). *Localization of hippocampal atrophy in frontotemporal dementia: a radial atrophy mapping study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1374. Boccardi M, Frisoni GB, Ganzola R, Rossi R, Sabattoli F, **Thompson PM**, Klunder AD, Hayashi KM, Tiihonen J (2007). *Hippocampal morphology in psychopathic individuals*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1375. Pievani M, Testa C, Sabattoli F, Bonetti M, Hayashi KM, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2007). *Effects of the ApoE genotype and age at onset in Alzheimer's Disease: a cortical pattern matching study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1376. Luders E, Narr KL, Bilder RM, **Thompson PM**, Szeszko PR, Hamilton L, Gurbani MN, Toga AW (2007). *Positive Correlations between Corpus Callosum Thickness and Intelligence*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1377. Sun D, Velakoulis D, Yung A, McGorry PD, Wood SJ, Phillips L, van Erp TGM, **Thompson PM**, Toga AW, Stuart GW, Cannon TD, Pantelis C (2007). *Brain surface contraction mapped in first-episode schizophrenia – a longitudinal magnetic resonance imaging study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1378. Protas HD, Huang SC, Kepe V, Hayashi KM, Klunder AD, Braskie MN, Ercoli LM, Bookheimer SY, **Thompson PM**, Barrio JR, Small GW (2007). *Hemispheric Cortical Surface Map for Assessing the Rate of Changes of Regional Cortical FDDNP Distribution versus MMSE Score*, 54<sup>th</sup> Annual Meeting of the Society for Nuclear Medicine, June 2-6, 2007, Washington, DC.

#### **Alzheimer's Association International Conference 2007**

1379. Small GW, Protas HD, Huang SC, Kepe V, Siddarth P, Hayashi KM, Klunder AD, Braskie MN, Ercoli LM, Bookheimer SY, **Thompson PM**, Barrio JR (2007). *FDDNP Binding Values from Cortical Hemispheric Surface Maps Correlate with MMSE Scores*, Alzheimer's Association International Conference on the Prevention of Dementia, June 9-12, 2007, Marriott Wardman Park Hotel, Washington, DC.
1380. Alexander GE, Chen K, Reiman EM, Aschenbrenner M, Merkley TL, Hanson KD, Dale AM, Bernstein MA, Kornak J, Schuff N, Fox NC, **Thompson PM**, Weiner MW, Jack CR Jr (2007). *Regional Gray Matter Reductions in Alzheimer's Dementia and Amnesic Mild Cognitive Impairment: Preliminary Findings From the Alzheimer's*

*Disease Neuroimaging Initiative Using Voxel-based Morphometry*, Alzheimer's Association International Conference on the Prevention of Dementia, June 9-12, 2007, Marriott Wardman Park Hotel, Washington, DC.

1381. Becker JT, Lopez OL, Aizenstein HJ, Lobaugh NJ, **Thompson PM**, Juengst S (2007). *Brain Functional Alterations in HIV/AIDS Analysed by the Method of Partial Least Squares*, 34th Annual Meeting of the International Neuropsychological Society, 2007.

#### **International Schizophrenia Congress 2007:**

1382. Schall U, Mitchie PT, Ward PB, Fulham WR, Hughes M, Richards A, Todd J, Case V, Meyer L, Stone E, Johnston P, Rasser PE, **Thompson PM** (2007). *Multimodal Imaging of the Mismatch Negativity Deficit in Schizophrenia*, International Congress for Schizophrenia Research (ICSR), Colorado Springs, Colorado, April 2007.

#### **American Neurological Association 2007**

1383. Apostolova LG, **Thompson PM**, Green AH, Jack CR, Harvey D, Petersen RM, Thal L, Cummings JL, DeCarli C for the ADCS Group (2007). *3D comparison of low-to-intermediate vs. advanced hippocampal atrophy in MCI*, 132<sup>nd</sup> Annual meeting of the American Neurological Association, Washington DC, 2007.
1384. Apostolova LG, **Thompson PM**, Green AH, Jack CR, Harvey D, Petersen RM, Thal L, Cummings JL, DeCarli C for the ADCS Group (2007). *3D analysis of hippocampal atrophy progression in MCI subjects*, 132<sup>nd</sup> Annual meeting of the American Neurological Association, Washington DC, 2007.

#### **American College of Neuropsychopharmacology (ACNP) 2007:**

1385. Pantelis C, Sun D, Phillips L, Velakoulis D, Yung A, Wood SJ, **Thompson PM**, van Erp TGM, Toga AW, Proffitt TM, Henry LP, Harris MG, Cannon TD, McGorry PD (2007). *Are Cortical Gray Matter Changes in Schizophrenia Intermediate Phenotypes?*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.
1386. Bearden CE, van Erp TGM, Lee AD, Dutton RA, Simon TJ, Glahn DG, Cannon TD, Emanuel BS, Toga AW, **Thompson PM** (2007). *Alterations in Midline Cortical Thickness and Complexity Mapped in Children with 22q11.2 Deletions*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.
1387. Soares JC, Bearden CE, **Thompson PM**, Hayashi KM, Klunder AD, Nicoletti M, Diershke N, Brambilla P (2007). *Three-dimensional mapping of hippocampal anatomy in unmedicated patients with unipolar depression*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.

#### **Society for Neuroscience (SFN) 2007:**

1388. Foland LC, Altshuler LL, Leow AD, Sugar CA, Toga AW, **Thompson PM** (2007). *Lithium and Mood State Effects on Brain Structure in Subjects with Bipolar Disorder*, Soc. Neuroscience, San Diego, CA, USA.
1389. Ward PB, Schall U, Michie PT, **Thompson PM**, Rasser P, Fulham R (2007). *Mismatch Negativity Amplitudes in First-Episode and Chronic Schizophrenia: ERP, fMRI, and Cortical Grey Matter Evidence of Deficits in Deviance-Related Auditory Processing*, Soc. Neuroscience, San Diego, CA, USA.

1390. Apostolova LG, Mosconi L, Green A, **Thompson PM**, DeLeon M (2007). *Preclinical progression of hippocampal atrophy in cognitively normal subjects who convert to MCI and AD*, Annual Meeting of the American Neurological Association, Marriott Wardman Park, Washington, DC, October 2007.

#### **Society of Biological Psychiatry (SOBP) 2008**

1391. **Thompson PM** (2008). *Mapping Brain Changes in an Antipsychotic Trial*, Society of Biological Psychiatry 2008, Invited Presentation, Washington, DC, May 1-3 2008.

1392. van Erp TGM, Kieseppä T, Bearden CE, Sun D, Zimmermann LL, Tran HL, Correll C, Wobbekind A, Haukka J, Partonen T, Kaprio J, Lönnqvist J, Poutanen V, Toga AW, **Thompson PM**, Cannon TD (2008). *Cortical Gray Matter Density in Twins Discordant for Bipolar I Disorder*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1393. Sun D, van Erp TGM, Daley M, Bearden CE, Mkrtychyan A, Toga AW, **Thompson PM**, Cannon TD (2008). *Cortical gray matter mapping during the psychosis prodrome*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1394. Foland LC, Townsend J, Bookheimer SY, Thompson PM, Altshuler LL (2008). *A functional magnetic resonance imaging study of bipolar disorder: Elucidating state- and trait-related changes in prefrontal cortex*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1395. Bearden CE, **Thompson PM**, Hayashi KM, Klunder AD, Nicoletti MA, Dierschke N, Kopecek M, Brambilla P, Soares JC (2008). Three-dimensional mapping of hippocampal anatomy in unmedicated patients with unipolar depression, **Society of Biological Psychiatry** 2008, Washington, DC, May 1-3 2008.

#### **American Academy of Neurology (AAN) 2008**

1396. Harris R, Alcantara D, Amenta N, Lopez OL, Eiriksdóttir G, Sigurdsson S, Gudnason V, **Thompson PM**, Launer L, Carmichael OT (2008). *Localized Measures of Callosal Atrophy Are Associated with Late-Life Hypertension in a Population-Based Study: AGES-Reykjavik Study*, Proc. American Acad. Neurology, 2008.

1397. Apostolova LG, Beyer MK, Green AE, Avedissian C, Hwang K, Aarsand D, Janvin CC, Larsen JP, Cummings JL, **Thompson PM** (2008). *Hippocampal Atrophy in Parkinson's Disease Patients with Mild Cognitive Patients*, Proc. American Acad. Neurology, 2008.

#### **American Psychiatric Association (APA) 2008**

1398. Foland LC, Altshuler LL, Narr KL, Bartzokis G, Alagband Y, Townsend J, Toga AW, **Thompson PM** (2008). *Can brain structure change with mood? An exploratory analysis of mood-state related changes in amygdala volume in subjects with bipolar disorder*. Annual Meeting of the American Psychiatric Association, 2008.

#### **Human Brain Mapping 2008:**

1399. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Mapping Genetic Influences on Brain Fiber Architecture with High Angular Resolution Diffusion Imaging (HARDI)*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008

1400. Zhan L, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, **Thompson PM** (2008). *How Many Gradients are Sufficient in High-Angular Resolution Diffusion Imaging (HARDI)?* 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.



- 1401.Haro G, Lenglet C, Sapiro G, **Thompson PM** (2008). *Stratification and Complexity of Brain Connectivity*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1402.Chou YY, Lepore N, Barysheva M, Chiang MC, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Mapping Genetic Influences on the Lateral Ventricles using Multi-Atlas Fluid Image Alignment in Twins*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1403.Chou YY, Leporé N, Hua X, Toga AW, **Thompson PM** (2008). *Mapping Neurodegeneration using Multi-Atlas Fluid Image Alignment*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1404.Brun C, Lepore N, Pennec X, Chou YY, Lee AD, Barysheva M, McMahon K, de Zubicaray GI, Wright M, Toga AW, **Thompson PM** (2008). *Volumetric Differences in Brain Structure in Identical and Fraternal Twins Computed using Riemannian Tensor-Based Morphometry*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1405.Apostolova LG, Beyer MK, Green AE, Morra JH, Hwang K, Aarsland D, Janvin CC, Larsen JP, Cummings JL, **Thompson PM** (2008). *Automated 3D mapping of caudate atrophy in Parkinson's disease with and without dementia*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1406.Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Hua X, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2008). *Mapping Hippocampal Degeneration in 400 Subjects with a Novel Automated Segmentation Approach*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1407.Hua X, Leow AD, Lee S, Parikshak N, Klunder AD, Toga AW, Lepore N, Chou YY, Brun C, Chiang MC, Barysheva M, Jack CR, Weiner MW, **Thompson PM** (2008). *3D Mapping of Brain Atrophy in Alzheimer's Disease and Mild Cognitive Impairment with Tensor-Based Morphometry*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1408.Lepore N, Vachon P, Lepore F, Chou YY, Voss P, Brun C, Lee AD, Toga AW, **Thompson PM** (2008). *3D Pattern of Brain Changes in Deaf Subjects Mapped using Tensor-Based Morphometry*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1409.Lueders E, Narr KL, Hamilton LS, Phillips OR, **Thompson PM**, Valle JS, DelHomme M, Strickland T, McCracken JT, Toga AW, Levitt JG (2008). *Decreased Corpus Callosum Thickness in Attention Deficit / Hyperactivity Disorder (ADHD)*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, , Italy, June 15-19, 2008.
- 1410.Narayan VM, Phillips OR, Narr KL, **Thompson PM**, Toga AW, Szeszko PR (2008). *Patterns of cortical thickness in obsessive compulsive disorder (OCD)*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1411.Narr KL, Szeszko P, Lencz T, Woods RP, Hamilton LS, Phillips O, **Thompson PM**, Toga AW, Malhotra AK, Bilder RM (2008). *Evidence for DTNBP1/imaging phenotype associations in schizophrenia*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
- 1412.Pievani M, Sabattoli F, Testa C, Bonetti M, Dutton RA, Lee AD, **Thompson PM**, Frisoni GB (2008). *The APOE e4 allele is associated with greater hippocampal atrophy in the subicular and CA1 areas in Alzheimer's disease: an in vivo MR study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.

1413. Rasser PE, Todd J, **Thompson PM**, Michie PT, Ward PB, Johnston P, Helmbold K, Case V, Tooney PA, Schall U (2008). *Linking Cerebral Gray Matter and Mismatch Negativity (MMN) in Schizophrenia*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
1414. van Erp TGM, Chiang MC, Sun D, Hardt ME, Bockholt JH, Turner JA, Calhoun VD, Johnson HJ, Greve DN, Williams S, O'Leary D, Lauriello J, Wible CG, Lim KO, Mueller BA, Brown GG, Voyvodic J, McCarthy G, Mathalon D, Ford JM, Potkin SG, Cannon TD, **Thompson PM**, Toga AW and the FBIRN (Functional Brain Imaging Research Network). *3D Pattern of Brain Abnormalities in Chronic Schizophrenia Visualized Using Tensor-Based Morphometry: a Multi-Site Structural Imaging Study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
1415. Franc D, Lenglet C, Haro G, **Thompson PM**, Mueller B, Sapiro G, Lim KO (2008). *Uncertainty of apparent white matter fiber tract size in DTI fiber tracking and region of interest analyses: A multi-resolution study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
1416. Wang YL, Gu X, Chan TF, **Thompson PM** (2008). *Brain Surface Conformal Slit Mapping*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Melbourne, Australia, June 15-19, 2008.
1417. Schall U, Rasser PE, Todd J, Michie PT, Ward PB, Johnston P, Helmbold K, Case V, Tooney PA, **Thompson PM** (2008). *A simple auditory event-related potential is linked to cerebral grey matter pathology in schizophrenia*, Inaugural Conference of the International Schizophrenia Research Society- -June 21-25 2008, Venice, Italy, 2008.

#### **International Conference on Alzheimer's Disease (ICAD2008)**

1418. Apostolova LG, **Thompson PM**, Green AE, Jack CR, Harvey D, Petersen RC, Thal LJ, Aisen P, Cummings JL, DeCarli C for the ADCS Group (2008). *3D comparison of low, intermediate and advanced hippocampal atrophy in MCI*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1419. Apostolova LG, Beyer M, Green AE, Chou YY, Morra JH, Hwang K, Aarsland D, Janvin C, Larsen J, Cummings JL, **Thompson PM** (2008). *Automated 3D mapping of caudate atrophy and ventricular enlargement in Parkinson's disease with and without dementia*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1420. **Thompson PM**, Apostolova LG, Morra JH, Green AE, Hwang K, Avedissian C, Parikshak N, Cummings JL, Toga AW, Jack CR, Weiner MW (2008). *Automated Longitudinal 3D Mapping of Hippocampal ADAS-Cog Delayed Recall Effects in 293 Normal Elderly, MCI and AD Subjects*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1421. Barnes J, Bartlett JW, van de Pol L, Loy CT, Scahill RI, Frost C, **Thompson PM**, Fox NC (2008). *A meta-analysis of hippocampal atrophy rates in Alzheimer's disease*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1422. Zhang H., Wu T, Bae M, Reiman EM, Alexander GE, Jack Jr CR, **Thompson PM**, Chen, K (2008). *Use Of The Support Vector Machine And Sensitivity Of an AD-related Region-of-interest Gray Matter Classifier In Identifying Amnesic MCI Subjects Who Convert To AD: Preliminary Findings From The AD Neuroimaging Initiative*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1423. Lu PH, **Thompson PM**, Leow AD, Lee G, Lee AD, Geschwind DH, Stewart S, Bartzokis G (2008). *Apolipoprotein genotype predicts rate of brain atrophy in healthy elderly adults: A tensor-based morphometry study*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.

1424. Bartzokis G, Po-Haong Lu, Kathleen Tingus, Mario Mendez, Aurora Richards, Douglas Peters, Pablo Villablanca, Paul Finn, **Thompson PM**, Mintz J (2008). Lifespan trajectories of speed and myelin integrity: Implications for cognition, International Conference on Alzheimer's Disease, Chicago, July 26-31 2008.
1425. Prestia A, **Thompson PM**, Sabattoli F, Michela Pievani, Giovanni B. Frisoni, Elisa Canu (2008). *In vivo* mapping of incremental cortical atrophy from health to overt Alzheimer's disease, International Conference on Alzheimer's Disease, Chicago, July 26-31 2008.
1426. Ganzola R, Boccardi M, **Thompson PM**, Beltramello A, Canu E, Frisoni GB (2008). Mapping local structural hippocampal changes in Alzheimer's disease and normal aging on MR imaging at 3T, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1427. Alexander GE, Krista D. Hanson, Kewei Chen, Eric M. Reiman, Matthew A. Bernstein, John Kornak, Norbert W. Schuff, Nick C. Fox, **Thompson PM**, Michael W. Weiner, Clifford R. Jack (2008). *Six month MRI gray matter declines in Alzheimer's dementia evaluated by voxel-based morphometry with multivariate network analysis: Preliminary findings from the ADNI study*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.
1428. Pievani M, Testa C, Sabattoli F, Bonetti M, Hayashi KM, **Thompson PM**, Frisoni GB (2008). *The APOE E4 allele is associated with greater atrophy of the temporal cortex in Alzheimer's disease: An in vivo MRI study*, **International Conference on Alzheimer's Disease**, Chicago, July 26-31 2008.

#### **American College of Neuropsychopharmacology (ACNP2008)**

1429. Daley ML, van Erp TGM, Bearden CE, Loesch I, Alaverdyan M, **Thompson PM**, O'Neill J, Toga AW, Cannon TD (2008). *Hippocampal Volumes in the Psychosis Prodrome*, AACAP Conference, 2008.
1430. Bartzokis G, Lu PH, Tingus K, Richard A, Peters DG, Oluwadara B, Barall K, Finn JP, Villablanca P, **Thompson PM**, Mintz J (2008). *Assessing Human Myelination Trajectories: Implications for Treatment and Prevention of Neuropsychiatric Disorders*, Annual Meeting of the **American College of Neuropsychopharmacology (ACNP)** 2008, Phoenix, Arizona, December 2008.
1431. **Thompson PM** (2008). *Dynamics, Genetics and Clinical Correlates of White Matter Changes in Alzheimer's Disease*, Annual Meeting of the **American College of Neuropsychopharmacology (ACNP)** 2008, Phoenix, Arizona, December 2008.
1432. van Erp TGM, **Thompson PM**, Kiesepä T, Bearden CE, Marino A, Hoftman GD, JHaukka J, Partonen T, Huttunen M, Kaprio J, Lönnqvist J, Poutanen VP, Toga AW, Cannon TD (2008). *Hippocampal Morphology in Twins Discordant for Bipolar I Disorder*, **Society for Neuroscience (SFN)**, 2008.
1433. Eckstein I, Shattuck DW, Stein JL, McMahon K, de Zubicaray GI, Wright MJ, **Thompson PM**, Toga AW (2008). *Active Fibers: Matching Deformable Tract Templates to Diffusion Tensor Images*, International Brain Mapping and Intraoperative Surgical Planning Conference (IBMISPS), 5th Annual World Congress, Los Angeles, CA, Aug. 26-29 2008.
1434. Schall U, Rasser PE, Atkinson R, Fulham R, Helmbold K, Todd J, Halpin S, Johnston P, Michie PT, Ward PB, **Thompson PM**, Carr, V (2008). *Mismatch negativity in prodrome, first episode and established schizophrenia: Relationship with stimulus type, generator sources, grey matter loss, and functional outcome*, Proc. International Conference on Schizophrenia Research (ICOSR), San Diego, 2008.
1435. Wright M, Blokland G, Chiang MC, MacMahon K, Martin N, Toga AW, de Zubicaray G, **Thompson PM** (2008). *An imaging study of Australian twins: Quantifying genetic and environmental influences on fMRI and HARDI phenotypes*, **Psychophysiology**, 45: S17, Suppl. 1.

### **American Academy of Neurology (AAN) 2009**

1436. Apostolova LG, Green AE, Hwang K, Morra JH, Cummings JL, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2009). *Correlations between serum Abeta and tau and hippocampal atrophy measures in 282 ADNI subjects*, **American Academy of Neurology (AAN)**, 2009; **Neurology** 72(11):A93-A93, Suppl. 3, March 17 2009.
1437. Apostolova LG, Green AE, Hwang KS, Cummings JL, Toga AW, Thompson PM (2009). *Mapping hippocampal atrophy in mild cognitive impairment and Alzheimer's disease*, **American Academy of Neurology (AAN)**, 2009.
1438. Ho AJ\*, Raji CA\*, Parikshak N, Becker JT, Lopez OL, Kuller LH, Hua X, Leow AD, Toga AW, **Thompson PM** (2009). *Mapping Effects of Body Mass Index, Insulinemia, and Diabetes Mellitus on Brain Structure in Cognitively Normal Elders*, **American Academy of Neurology (AAN)**, 2009. **Neurology** 72(11):A171-A171, Suppl. 3, March 17 2009. [\*equal contribution].
1439. Welcome S, Chiarello C, Thompson PM, Sowell ER (2009). *A comparison of cortical anatomy between college students with different reading skills*, **Cognitive Neuroscience Society Conference (CNS)** 2009.

### **International Society for Magnetic Resonance in Medicine (ISMRM) 2009**

1440. Aganj I, Lenglet C, Keriven R, Sapiro G, Harel N, **Thompson PM** (2009). *A Hough Transform Global Approach to Diffusion MRI Tractography*, **International Society for Magnetic Resonance in Medicine (ISMRM)** 2009.
1441. Raffelt D, Tournier D, Frupp A, Lepore N, **Thompson PM**, Crozier A, Connelly A, Salvado O (2009). *Non-Rigid Registration of Diffusion Weighted Images using Fibre Orientation Distributions*, **International Society for Magnetic Resonance in Medicine (ISMRM)** 2009.
1442. Andrawis J, Hwang K, Green AE, Morra JH, Kotlerman J, Ramirez A, Elashoff D, Cummings JL, **Thompson PM**, Apostolova LG (2009). *Hippocampal Atrophy in Subjects with Maternal History of Alzheimer Disease*, **American Geriatric Society**, 2009; **JOURNAL OF THE AMERICAN GERIATRICS SOCIETY** 57:S195-S196, Suppl. 1, March 2009.
1443. Freitag CM, Luders E, Hulst H, Narr KL, **Thompson PM**, Toga AW, Krick C, Konrad C (2009). *Total Brain Volume and Corpus Callosum Size in Medication Naïve Adolescents and Young Adults with Autism Spectrum Disorder*, Conference of the International Society for Autism Research (INSAR), May 7 2009.

### **Society of Biological Psychiatry (SOBP) 2009**

1444. Foland-Ross LC, Bookheimer SY, Townsend J, Shen J, Penfold C, Ahlf K, Madsen SK, Fischer J, **Thompson PM**, Altshuler LL (2009). *Mapping the relationship between brain structure and function during a behavioral inhibition task in patients with bipolar disorder*, Annual Conference of the Society of Biological Psychiatry (SOBP), 2009.
1445. Foland-Ross LC, **Thompson PM**, Bookheimer SY, Townsend J, Shen J, Penfold C, Ahlf K, Madsen SK, Fischer J, Lepore N, Leow A, Bartzokis G, Altshuler LL (2009). *Abnormal white matter microstructure in prefrontal cortex in euthymic bipolar patients revealed with diffusion tensor imaging*, International Conference on Bipolar Disorder (ICBD) 2009.
1446. Foland-Ross LC, Altshuler LL, Bookheimer SY, Madsen SK, Townsend J, Shen J, Penfold C, Ahlf K, Fischer J, **Thompson PM** (2009). *Decreased gray matter density in orbitofrontal and anterior cingulate cortex in subjects with bipolar I disorder*, International Conference on Bipolar Disorder (ICBD) 2009.
1447. Nguyen T, Madsen SK, Foland LC, **Thompson PM**, Nicoletti M, Brambilla P, Soares JC, Bearden CE (2009). *Corpus Callosum Abnormalities in Juvenile-Onset Bipolar Disorder*, Annual Conference of the Society of Biological Psychiatry (SOBP), 2009.

## **Society for Nuclear Medicine 2009**

1448. Protas HD, Huang S-C, Kepe V, Ercoli L, **Thompson PM**, Small GW, Barrio JR (2009). *Prediction of Cognitive Scores Based on Hemispheric Cortical Surface Maps of FDDNP*, **Society for Nuclear Medicine**, 2009.

## **Organization for Human Brain Mapping (OHBM) 2009 (26 abstracts)**

1449. Aganj I, Lenglet C, Sapiro C, Chiang MC, **Thompson PM** (2009). *Multi-subject Diffusion MRI Tractography via a Hough Transform Global Approach*, **Organization for Human Brain Mapping**, 2009.

1450. Westerhausen R, Luders E, Specht K, Ofte SH, Toga AW, **Thompson PM**, Helland T, Hugdahl K (2009). *A longitudinal study of inter-hemispheric interaction and corpus callosum development in 6 and 8 year old children*, **Organization for Human Brain Mapping**, 2009.

1451. Foland-Ross LC, **Thompson PM**, Bookheimer SY, Townsend J, Shen J, Penfold C, Fischer J, Altshuler LL (2009). *Amygdala activation is associated with prefrontal cortical thickness in healthy subjects, but not in bipolar patients*, **Organization for Human Brain Mapping**, 2009.

1452. Leporé N, Voss P, Leporé F, Chou YY, Fortin M, Gougoux F, Lee AD, Brun CC, Lassonde M, Madsen SK, Toga AW, **Thompson PM** (2009). *Brain Differences in Early- and Late-Onset Blind Subjects Visualized using Tensor-Based Morphometry*, **Organization for Human Brain Mapping**, 2009.

1453. Zhan L, Leow AD, Zhu S, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Validating the Tensor Distribution Function for Fiber Reconstruction in HARDI (High-Angular Resolution Diffusion Imaging)*, **Organization for Human Brain Mapping**, 2009.

1454. Zhan L, Leow AD, Zhu S, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Analysis of Fiber Reconstruction Accuracy in HARDI (High-Angular Resolution Diffusion Images)*, **Organization for Human Brain Mapping**, 2009.

1455. den Braber A, van 't Ent D, Cath DC, Boomsma DI, Barysheva M, Lee AD, Foland-Ross LC, Stein JL, **Thompson PM**, De Geus EJC (2009). *A DTI study of monozygotic twins discordant for obsessive compulsive symptoms*, **Organization for Human Brain Mapping**, 2009.

1456. Ho AJ\*, Raji CA\*, Parikshak N, Becker JT, Lopez OL, Kuller LH, Hua X, Leow AD, Toga AW, **Thompson PM** (2009). *Brain Structure and Obesity*, **Organization for Human Brain Mapping**, 2009. [\*denotes equal contribution].

1457. Hua X, Yanovsky I, Leow AD, Lee S, Ho AJ, Parikshak N, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2009). *Tensor based morphometry as surrogate marker for Alzheimer's disease and mild cognitive impairment: Optimizing Statistical Power*, **Organization for Human Brain Mapping**, 2009.

1458. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Mapping Genetic Influences on Brain Fiber Architecture and Intellectual Performance - A High-Angular Resolution Diffusion Imaging (HARDI) Study*, **Organization for Human Brain Mapping**, 2009.

1459. Jahanshad N, Lee AD, Lepore N, Brun CC, Barysheva M, Chou YY, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Genetics of White Matter Asymmetry Mapped using Diffusion Tensor Anisotropy Measures in 100 Twins*, **Organization for Human Brain Mapping**, 2009.

1460. Nuñez SC, Babakchanian S, Kan E, Smith L, O'Connor M, Bookheimer SY, Thompson PM, Sowell ER (2009). *Callosal Thinning in Children Prenatally Exposed to Methamphetamine*, **Organization for Human Brain Mapping**, 2009.

1461. Lenglet C, Jehanshad N, Haro G, Sapiro G, McMahon K, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Asymmetry and Population Studies of White Matter Complexity using Q-Ball Imaging*, **Organization for Human Brain Mapping**, 2009.
1462. Chou YY, Lepore N, Brun C, Barysheva M, McMahon K, de Zubicaray GI, Wright MJ, Toga AW, **Thompson PM** (2009). *Can Tissue Segmentation Improve Registration? A study of 92 Twins*, **Organization for Human Brain Mapping**, 2009.
1463. Morra JH, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2009). *Automated Hippocampal Segmentation and Mapping Reveals Genetically Accelerated Tissue Loss in 1-year repeat MRI data from 490 Alzheimer's Disease, MCI, and Control Subjects*, **Organization for Human Brain Mapping**, 2009.
1464. Apostolova LG, Hwang K, Andrawis J, Green AE, Babakchanian S, Morra JH, Cummings JL, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2009). *3D mapping of associations between Amyloid-PET and CSF biomarkers and hippocampal morphology*, **Organization for Human Brain Mapping**, 2009.
1465. Leow AD, Zhan L, Zhu S, Hageman N, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Novel Measure of Fiber Integrity based on Q-Ball Imaging and the Tensor Distribution Function avoids Problems with Fractional Anisotropy Measures*, **Organization for Human Brain Mapping**, 2009.
1466. Stein JL, DeGiorgio A, Madsen SK, Avedissian C, Chou YY, Morra JH, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Genetic Influences on Hippocampal Structure Mapped in 288 Twins*, **Organization for Human Brain Mapping**, 2009.
1467. Lee AD, Lepore N, Lepore F, Alary F, Voss P, Chou YY, Brun CC, Barysheva M, Toga AW, **Thompson PM** (2009). *Brain Fiber Architecture in the Blind*, **Organization for Human Brain Mapping**, 2009.
1468. Kim Y, **Thompson PM**, Toga AW, Vese LA, Zhan L (2009). *Minimization Models for HARDI Data Denoising*, **Organization for Human Brain Mapping**, 2009.
1469. Hageman NS, **Thompson PM**, Shattuck DW, Avedissian C, Barysheva M, McMahon KL, de Zubicaray GI, Wright MJ, Toga AW (2009). *Genetic Influences on White Matter Architecture in Twins: A Diffusion Tensor Tractography Study*, **Organization for Human Brain Mapping**, 2009.
1470. Wang Y, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Multivariate Statistics of Tensor-Based Cortical Surface Morphometry*, **Organization for Human Brain Mapping**, 2009.
1471. Wang Y, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Shape Analysis with Conformal Invariants for Multiply Connected Domains and its Application to Analyzing Brain Morphology*, **Organization for Human Brain Mapping**, 2009.
1472. Wang Y, Zhang J, Chan TF, Toga AW, **Thompson PM** (2009). *Brain Surface Conformal Parameterization with the Holomorphic Flow Method and Its Application to HIV/AIDS*, **Organization for Human Brain Mapping**, 2009.
1473. Blokland GAM, McMahon KL, **Thompson PM**, de Zubicaray GI, Wright MJ (2009). *Mapping Genetic Influences on Brain Activation during the N-Back Working Memory Task: An fMRI Study of 314 Twins*, **Organization for Human Brain Mapping**, 2009.

1474. Brun C, Lepore N, Pennec X, Voss P, Chou YY, Fortin M, Gougoux F, Lepore F, Lee AD, Lassonde M, Madsen SK, Toga AW, **Thompson PM** (2009). *Comparing Fluid Registration Methods: Mapping Structural Brain Differences in the Blind*, **Organization for Human Brain Mapping, 2009**.

**International Conference on Alzheimer's Disease (ICAD) 2009**

1475. **Thompson PM**, Hua X, Leow AD, Morra JH, Apostolova LG, Lee S, Avedissian C, Madsen SK, Green AE, Toga AW, Jack CR, Shaw LM, Trojanowski JQ, Weiner MW (2009). *Brain changes in 676 ADNI subjects: Summary of 10 studies using Tensor Based-Morphometry and Automated Hippocampal Mapping* **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1476. Apostolova LG, Hwang K, Green AE, Babakchian S, Morra JH, Cummings JL, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2009). *CSF Abeta and Tau associations with 3D hippocampal radial distance mapped in 282 ADNI subjects*, **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1477. Apostolova LG, Babakchian S, Hwang KS, Green AE, Chou YY, Cummings JL, Toga AW, **Thompson PM** (2009). *Effects of age differences on ventricular enlargement when comparing cognitively normal elderly, mild cognitive impairment and Alzheimer's disease subjects*, **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1478. Andrawis JP, Hwang KS, Green AE, Babakchian S, Morra JH, Cummings JL, Toga AW, Trojanowski JQ, Shaw LM, Jack CR, Weiner MW, **Thompson PM**, Apostolova LG (2009). *3D mapping of associations between Amyloid-PET and CSF biomarkers and hippocampal morphology*, **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1479. Lu P, Apostolova LG, Hwang KS, Green AE, Ching C, Thompson PM, Leow AD, Lee G, Janvin CC, Larsen JP, Cummings JL, Aarsland D, Beyer MK (2009). *A Tensor Based Morphometry study of patients with cognitive impairment and dementia in Parkinson's disease*, **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1480. Lu PH, Mendez M, Thompson PM, Leow AD, Lee G, Shapira J, Jimenez E, Lee AD, Lee HW, Khoo T, Bartzokis G (2009). *Differential Patterns of Atrophy in Behavioral versus Language Subtypes of Frontotemporal Lobar Degeneration: A Tensor-Based Morphometry Study*, **International Conference on Alzheimer's Disease (ICAD) 2009, Vienna**.

1481. **Thompson PM**, Hua X, Leow AD, Morra JH, Apostolova LG, Parikshak N, Lee S, Avedissian C, Madsen SK, Green AE, Klunder AD, Tu Z, Yanovsky I, Ho AJ, Toga AW, Jack CR, Bernstein MA, Britson PJ, Gunter JL, Ward CP, Borowski B, Shaw LM, Trojanowski JQ, Fleisher AS, Fox NC, Harvey D, Kornak J, Schuff N, Alexander GE, Weiner MW (2009). *Brain changes in 676 ADNI subjects: Summary of 10 studies using Tensor Based-Morphometry and Automated Hippocampal Mapping*, **ADNI Workshop at the American Academy of Neurology (AAN), 2009, Seattle, WA**.

1482. den Braber A, van 't Ent D, Cath DC, Boomsma DI, Barysheva M, Lee AD, Foland-Ross LC, Stein JL, **Thompson PM**, De Geus EJC (2009). *An MRI-DTI study of monozygotic twins discordant for obsessive compulsive symptoms*, **Society for Psychophysiological Research, October 21-24, 2009**.

1483. Rogers J, Kochunov P, Zilles K, Shelledy W, Lancaster J, **Thompson PM**, Duggirala R, Blangero J, Fox PT, Glahn DC (2009). *On the genetic architecture of cortical folding and brain volume in primates*, **American Society of Primatologists, 2009**.

1484. Beyer MK, Apostolova LG, Green AE, Hwang KS, Morra JH, Chou Y, Avedissian C, **Thompson PM**, Janvin CC, Larsen JP, Cummings JL, Aarsland D (2009). *Automated 3D mapping of hippocampal and caudate atrophy*

and ventricular enlargement in Parkinson's disease with and without dementia. 13<sup>th</sup> International Congress of the Movement Disorders Society, Paris, France, June 2009.

1485. **Apostolova LG**, Beyer MK, Green AE, Hwang KS, Morra JH, Chou Y, Avedissian C, Aarsland D, Janvin CC, Larsen JP, Toga AW, Cummings JL, **Thompson PM** (2010). *3D mapping of hippocampal, caudate and ventricular changes in Parkinson's disease with and without dementia*. 9<sup>th</sup> **International Conference on Alzheimer's and Parkinson's Disease**, Prague, Czech Republic, March 2009.
1486. Andrawis JP, Hwang KS, Green AG, Ramirez A, Kotlerman J, Elashoff D, Morra JH, **Thompson PM**, Cummings JL, Apostolova LG (2009). Hippocampal atrophy in patients with maternal history of Alzheimer's disease. **2009 Annual Meeting of the American Geriatrics Society**, Chicago, IL, April 2009.
1487. Finegersh A, Avedissian, **Thompson PM**, Dustin I, Theodore W. (2009) Three-dimensional surface mapping shows hippocampal atrophy contralateral and ipsilateral to seizure foci in temporal lobe epilepsy patients with depression, or a history of febrile seizures. **American Epilepsy Society Meeting**. *Epilepsia*, 50: 441-442 Suppl. 11. NOV 2009.

### **Society for Neuroscience 2009**

1488. Hua X, Lee S, Leow AD, Yanovsky I, Parikshak N, Chou YY, Ho AJ, Gutman B, Toga AW, Jack CR, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, **Thompson PM** (2009). *Neuroimaging biomarkers track brain degeneration in 676 subjects with Alzheimer's disease, mild cognitive impairment, and healthy controls*, **Society for Neuroscience Annual meeting**, Chicago.
1489. Ho A, Hua X, Lee S, Leow AD, Yanovsky I, Gutman B, Dinov ID, Lepore N, Stein JL, Toga AW, Jack CR, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, **Thompson PM** (2009). *Tracking Alzheimer's Disease Progression: Does 3 Tesla or 1.5 Tesla MRI Provide Greater Statistical Power?* **Society for Neuroscience Annual meeting**, Chicago.
1490. Stein JL, Hua X, Morra JH, Lee S, Ho AJ, Leow AD, Toga AW, Sul J, Kang HM, Eskin E, Saykin AJ, Shen L, Jack CR, Weiner MW, **Thompson PM** (2009). *Genome-wide association study of temporal lobe structure identifies novel quantitative trait loci for neurodegeneration in Alzheimer's disease*, **Society for Neuroscience Annual meeting**, Chicago.
1491. van Erp TGM, **Thompson PM**, Zimmerman L, Wobbekind AD, Sun D, Correll C, An E, Huttunen M, Lonnqvist J, Pirkola T, Salonen O, Valanne L, Poutanen VP, Toga AW, Cannon TD (2009). *3D Mapping of Cortical Gray Matter in Patients with Schizophrenia, their Non-ill Siblings, and Healthy Volunteers*, **Society for Neuroscience Annual meeting**, Chicago.
1492. Foland-Ross LC, **Thompson PM**, Madsen SK, Shen JK, Penfold C, Ahlf K, Nguyen T, Rasser PE, Yang Y, Townsend J, Bookheimer SY, Fischer J, Altshuler LL (2009). *Gray matter thinning in frontal and anterior cingulate cortices is associated with course of illness in adults with bipolar type I disorder*, **Society for Neuroscience Annual meeting**, Chicago.
1493. Hanson KD, Chen K, Ryan L, Glisky EL, Reiman ER, Bernstein MA, Kornak J, Harvey DJ, Schuff N, Jack CR, **Thompson PM**, Weiner MW, Alexander GE (2009). *Network analysis of MRI gray matter in amnesic mild cognitive impairment: Relation to rates of cognitive decline and conversion to dementia*, **Society for Neuroscience Annual meeting**, Chicago.
1494. Bergfield KL, Hanson KD, Chen K, Reiman EM, Bernstein MA, Kornak J, Harvey DJ, Schuff NW, **Thompson PM**, Weiner MW, Jack CR, Moeller JR, Alexander GE (2009). *Multivariate Regional Network Pattern of MRI*



*Gray Matter Preceding Conversion to Dementia in Amnesic Mild Cognitive Impairment*, **Society for Neuroscience Annual meeting**, Chicago.

1495. Bramen JE, Hranilovich J, Dahl R, Dinov ID, Nunez C, Rosso C, Forbes E, Toga AW, **Thompson PM**, Sowell ER (2009). *Longitudinal Progression of Puberty predicts Changes in Brain Structure, independent of Age, in Adolescent Boys and Girls*, **Society for Neuroscience Annual meeting**, Chicago.
1496. Pievani M, Sabattoli F, Bonetti M, **Thompson PM**, Frisoni GB (2009). *APOE4 is associated with greater atrophy in disease-specific hippocampal subregions in Alzheimer's disease: an in vivo MR study*, **Conference of the Italian Society for Neurology (SIN), 2009**.
1497. Apostolova LG, Sona Babakchianian<sup>1</sup>, Kristy S. Hwang<sup>1</sup>, Amity E. Green<sup>1</sup>, Dimitar Zlatev<sup>2</sup>, Yi-Yi Chou<sup>1</sup>, Clifford R. Jack, Jr<sup>3</sup>, Ronald C. Petersen<sup>3</sup>, Leon J. Thal<sup>4†</sup>, Paul S. Aisen<sup>4</sup>, Jeffrey L. Cummings<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson (2009). *Ventricular atrophy and its clinical correlates in the imaging cohort from the ADCS MCI Donepezil/Vitamin E study*, **Clinical Trials in Alzheimer's Disease conference**, 2009.
1498. Beyer MK, Apostolova LG, Green AE, Hwang K, Morra JH, Chou YY, Avedissian C, **Thompson PM**, Janvin CC, Larsen JP, Cummings JL, Aarsland D (2009). *Automated 3D mapping of hippocampal and caudate atrophy and ventricular enlargement in Parkinson's disease with and without dementia*, **Movement Disorders**, 24: S291-S292, Supplement 1.
1499. Willhite R, van Erp TG, Hennah W, **Thompson PM**, Toga AW, Huttunen M, Kaprio J, Peltonen L, Lonnqvist J, Cannon TD (2009). A NEW APPROACH FOR INVESTIGATING THE ROLE OF THE DYSTROBREVIN-BINDING PROTEIN (DTNBP1) IN PSYCHOSIS, **SCHIZOPHRENIA BULLETIN**, 35: 103-104, Suppl. 1, March 2009.
1500. Blokland G, Wright MJ, McMahon KL, de Zubicaray GI, Thompson PM, Martin N (2009). *Heritability of fMRI response in young adult twins*, **Proc. World Congress of Psychiatric Genetics**, San Diego, CA, November 4-8 2009.
1501. Rasser PE, Fulham R, Todd J, Mitchie PT, **Thompson PM**, Ward PB, Johnston P, Helmbold K, Schall U (2009). BRAIN PATHOLOGY AND MISMATCH NEGATIVITY (MMN) IN SCHIZOPHRENIA, **ASPR 2009**, Mismatch Negativity Symposium.
1502. Paul E. RASSER, Martin COHEN, Gregory PECK, **Paul M. THOMPSON**, Patrick J. JOHNSTON, Philip B. WARD, Vaughan J. CARR, Amanda BAKER, and Ulrich SCHALL (2009). CEREBELLAR GREY MATTER DEFICITS IN FIRST-EPIISODE SCHIZOPHRENIA AND CANNABIS USE MAPPED USING CORTICAL PATTERN AVERAGING, **ASRB 2009**.
1503. Kochunov P 1, Glahn D 1, Fox P 1, Zilles K 3, Shelledy W 2,3, Lancaster J., **Thompson P 4**, Blangero DJ 2,3 and Rogers J (2010). *Gyrification and brain size: their genetics and relationship. A translational genetic imaging study in human and baboons*. 6<sup>th</sup> International Imaging and Genetics Conference, Irvine, CA, January 2010.
1504. Schall U, Rasser PE, Todd J, Michie PT, Ward PB, **Thompson PM** (2009). Phenotyping of Schizophrenia by Multi-Modal Brain Imaging, **ASMR NSC Meeting on Neurogenetics**, Hobart, Australia, Nov. 15-17 2009.
1505. Jahanshad N, Shikuma CM, Kallianpur K, Nakamoto B, Valcour VG, **Thompson PM** (2009). *Impact of Cardio-Cerebrovascular Risk Factors on Brain Function and Structure in HIV-infected Individuals*, 11th International Workshop on Adverse Drug Reactions and Co-Morbidities in HIV, Philadelphia, PA.

1506.Stein JL, Hua X, Lee S, Ho AJ, Leow AD, Toga AW, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, Gerber JD, Allen A, Corneveaux J, Stephan DA, Webster J, DeChairo BM, Potkin SG, Jack CR, Weiner MW, **Thompson PM** (2010). **Voxelwise Genome-Wide Association Study (vGWAS), 6<sup>th</sup> UC Irvine Conference on Imaging Genomics, Irvine, CA, USA, January 2010.**

1507.Nakamoto BK, Jahanshad N, Kallianpur K, Shikuma C, Valcour V, **Thompson PM** (2009). *Impact of ApoE4 and Cerebrovascular Risk Factors on Cerebral Structure and Cognition in HIV in the HAART era*, **Conference on Retroviruses and Opportunistic Infections (CROI 2010).**

#### **American Academy of Neurology (AAN) 2010**

1508.Boccardi M, Cavado E, **Thompson PM**, Frisoni G (2010). *Mapping amygdalar structural differences in Alzheimer's patients with 3T MRI*, **American Academy of Neurology (AAN) 2010.**

1509.Hwang KH, Beyer MK, Green AE, **Thompson PM**, Janvin C, Larsen JP, Cummings JL, Aarsland D, Apostolova LG (2010). Mapping Cortical Atrophy in Parkinson's Disease Patients with Cognitive Impairment and Dementia. **62<sup>nd</sup> American Academy of Neurology Meeting, Toronto, Canada, April 2010.**

1510.Apostolova LG, Hwang KS, Medina LD, Green AE, Dutton RA, Lai J, Geschwind D, Cummings JL, **Thompson PM**, Ringman JM (2010). Mapping cortical thickness in autosomal dominant AD carriers. . **62<sup>nd</sup> American Academy of Neurology Meeting, Toronto, Canada, April 2010.**

1511.Apostolova LG, Babakchianian S, Hwang KS, Green AE, Zlatev D, Chou Y, Jack CR, Petersen RC, Thal LJ, Aisen PS, Cummings JL, Toga AW, **Thompson PM** (2009). Ventricular atrophy and its clinical correlates in the imaging cohort from the ADCS MCI Donepezil/Vitamin E study. **2nd Annual Conference on Clinical Trials on Alzheimer's Disease, Las Vegas, NE, October 2009.**

1512.Andrawis J, Hwang KS, Green AE, Morra JH, Kotlerman J, Ramirez A, Elashoff D, Cummings JL, **Thompson PM**, Apostolova LG (2009). Accelerated hippocampal atrophy in subjects with maternal history of Alzheimer's disease. **2nd Annual Conference on Clinical Trials on Alzheimer's Disease, Las Vegas, NE, October 2009.**

#### **Organization for Human Brain Mapping (OHBM) 2010.**

1513.Neda Jahanshad<sup>1</sup>, Jason L. Stein<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>2</sup>, Margaret J. Wright<sup>3</sup>, Hickie I, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** (2010). *White Matter Development and Asymmetry Mapped with DTI in 184 Twins aged 12-21*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1514.Neda Jahanshad<sup>1</sup>, Jason L. Stein<sup>1</sup>, Moriah E. Thomason<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson<sup>1</sup> (2010). *Gene hunting in DTI: Boosting Power to Detect Genes that Influence Fiber Tracts*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1515.Iman Aganj<sup>1</sup>, Neda Jahanshad<sup>2</sup>, Christophe Lenglet<sup>1,3</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>4</sup>, Margaret J. Wright<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, Guillermo Sapiro<sup>1</sup>, and **Paul M. Thompson<sup>2</sup>** (2010). *Relating Fiber Crossing in HARDI to Intellectual Function*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1516.Ming-Chang Chiang<sup>1</sup>, Marina Barysheva<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Narelle K. Hansell<sup>2</sup>, Michael R. James<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Paul M. Thompson<sup>1</sup> (2010). *BDNF*

- Effects on Brain Fiber Microstructure Replicated in two Twin Samples (N=455), Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1517. Xue Hua<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Suh Lee<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr<sup>4</sup>, Michael W. Weiner<sup>5,6,7</sup>, **Paul M. Thompson PhD<sup>1</sup>** (2010). *Sex and age differences in brain atrophic rates: an ADNI study with N=1368 MRI scans*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1518. Xue Hua<sup>1</sup>, Suh Lee<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Igor Yanovsky<sup>3</sup>, Alex D. Leow<sup>1,2</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr<sup>4</sup>, Matt A. Bernstein<sup>4</sup>, Eric M. Reiman<sup>5</sup>, Danielle J. Harvey<sup>6</sup>, John Kornak<sup>9</sup>, Norbert Schuff<sup>8,9</sup>, Gene E. Alexander<sup>11</sup>, Michael W. Weiner<sup>8,9,10</sup>, **Paul M. Thompson<sup>1</sup>** (2010). Power estimates for MRI-based Alzheimer's disease clinical trials using different inter-scan intervals, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1519. Omid Kohannim<sup>a</sup>, Xue Hua PhD<sup>a</sup>, Derrek P. Hibar BS<sup>a</sup>, Suh Lee BS<sup>a</sup>, Yi-Yu Chou MS<sup>a</sup>, Arthur W. Toga PhD<sup>a</sup>, Clifford R. Jack Jr MD<sup>b</sup>, Michael W. Weiner MD<sup>c,d,e</sup>, **Paul M. Thompson<sup>1</sup>** (2010). Boosting power for clinical trials using classifiers based on multiple biomarkers, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1520. April J. Ho\*, Jason L. Stein\*, Xue Hua PhD, Suh Lee, Derrek P. Hibar, Arthur W. Toga PhD, Andrew J. Saykin PsyD, Li Shen PhD, Tatiana Foroud PhD, Steven G. Potkin MD, Clifford R. Jack Jr MD, Michael W. Weiner MD, Cyrus A. Raji PhD, Oscar L. Lopez MD, James T. Becker PhD, **Paul M. Thompson PhD<sup>1</sup>** (2010). *Obesity gene, FTO, is associated with lower brain volumes in 206 healthy elderly subjects*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1521. April J. Ho BS\*, Cyrus A. Raji PhD\*, James T. Becker PhD, Oscar L. Lopez MD, Lewis H. Kuller PhD, Xue Hua PhD, Suh Lee BS, Derrek Hibar BS, Ivo D. Dinov PhD<sup>1</sup>, Jason L. Stein BA, Clifford R. Jack Jr MD, Michael W. Weiner MD, Arthur W. Toga PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>1</sup>** (2010). Obesity and brain structure in 700 MCI and AD patients, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1522. Jason Stein<sup>1</sup>, Xue Hua<sup>1</sup>, Suh Lee<sup>1</sup>, April Ho<sup>1</sup>, Alex Leow<sup>1</sup>, Arthur Toga<sup>2</sup>, Andrew Saykin<sup>3</sup>, Li Shen<sup>3</sup>, Tatiana Foroud<sup>3</sup>, Nathan Pankratz<sup>4</sup>, Matthew Huentelman<sup>5</sup>, David Craig<sup>5</sup>, Bryan DeChairo<sup>6</sup>, Steven Potkin<sup>7</sup>, Michael Weiner<sup>8</sup>, **Paul Thompson<sup>1</sup>** (2010). **Voxelwise Genome-Wide Association Study (vGWAS)**, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1523. Sarah K. Madsen<sup>a</sup>, April J. Ho<sup>a</sup>, Xue Hua PhD<sup>a</sup>, Priya S. Saharan<sup>a</sup>, Arthur W. Toga PhD<sup>a</sup>, Clifford R. Jack Jr MD<sup>c</sup>, Michael W. Weiner MD<sup>d,e</sup>, **Paul M. Thompson PhD<sup>a</sup>** and the Alzheimer's Disease Neuroimaging Initiative\* (2010). Caudate Atrophy & Clinical Correlates in 400 Alzheimer's Disease, MCI, & Healthy Elderly Subjects, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1524. Yi-Yu Chou<sup>1</sup>, Natasha Leporé<sup>2</sup>, Priyanka Saharan<sup>1</sup>, Sarah K. Madsen<sup>1</sup>, Xue Hua<sup>1</sup>, Clifford R. Jack<sup>3</sup>, Leslie M. Shaw<sup>4</sup>, John Q. Trojanowski<sup>4</sup>, Michael W. Weiner<sup>5</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2010). Ranking the Clinical and Pathological Correlates of Ventricular Expansion Mapped in 804 Alzheimer's Disease, MCI, and Normal Elderly Subjects, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1525. Agatha D. Lee<sup>1</sup>, Natasha Leporé<sup>1,4</sup>, Caroline C. Brun<sup>1</sup>, Marina Barysheva<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, **Paul M. Thompson<sup>1</sup>** (2010). *Genetic Influences on Brain Architecture from Multivariate Diffusion Tensor Data*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1526. Agatha D. Lee<sup>1</sup>, Natasha Lepore<sup>1,5</sup>, Jan de Leeuw<sup>2</sup>, Caroline C. Brun<sup>1</sup>, Marina Barysheva<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Arthur W. Toga<sup>1</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, **Paul M. Thompson<sup>1</sup>** (2010). *A New Multivariate Variance Components Analysis for Genetic Analysis of DTI data*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1527. Agatha D. Lee<sup>1</sup>, Allan L. Reiss<sup>2</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** (2010). Brain Asymmetry Mapped using Tensor-Based Morphometry in 22q11.2 Deletion Syndrome and in Normally Developing Children, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1528. Anand A. Joshi\*, Natasha Lepore\*, Caroline C. Brun, Richard M. Leahy, Yi-Yu Chou, Julio Villalon, Xavier Pennec, Marina Barysheva, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Arthur W. Toga, Paul M. Thompson (2010). Combined Surface/Volume Fluid Registration - Performance Evaluation using Brain MRIs from 342 Adults, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1529. Natasha Lepore\*, Anand A. Joshi\*, Shantanu Joshi, Jason L. Stein, Agatha D. Lee, Stephanie Biglarian, April B. Ryles, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Arthur W. Toga, Paul M. Thompson (2010). The Contribution of Genes to Cortical Thickness and Volume in Young Adults, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1530. Paul E. Rasser<sup>1,3</sup>, Thai Vinh Nguyen<sup>2,1</sup>, Ulrich Schall<sup>3,1</sup>, **Paul M. Thompson<sup>4</sup>** (2010). *Effects of brain MRI classification and segmentation on cortical atlases and maps*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1531. Liana G. Apostolova<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Sona Babakchanian<sup>1,2</sup>, Amity E. Green<sup>3</sup>, Daqiang Sun<sup>4,5</sup>, Charleen Zoumalan<sup>1</sup>, Reza Kenani<sup>4</sup>, Hyun Jeong Han<sup>5</sup>, Benjamin Wang<sup>1</sup>, Jeffrey L. Cummings<sup>1,5</sup>, Arthur W. Toga<sup>1,2</sup>, **Paul M. Thompson<sup>1,2</sup>** (2010). Statistical Map-based Classification of MCI and Alzheimer's disease using machine learning, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1532. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Alex D. Leow<sup>2,3</sup>, Matt A. Bernstein<sup>4</sup>, Bret J. Borowski<sup>4</sup>, Clifford R. Jack Jr<sup>4</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** (2010). *Trade-offs between Angular and Spatial Resolution in High Angular Resolution Diffusion Imaging (HARDI)*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1533. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Daniel B. Ennis<sup>2</sup>, Alex D. Leow<sup>3,4</sup>, Matt A. Bernstein<sup>5</sup>, Bret J. Borowski<sup>5</sup>, Clifford R. Jack Jr<sup>5</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson<sup>1</sup>** (2010). Theoretical Models Relating Angular and Spatial Resolution in HARDI, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1534. Liang Zhan<sup>1</sup>, Alex D. Leow<sup>2,3</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, **Paul M. Thompson** (2010). **Fiber Demixing with the Tensor Distribution Function avoids errors in Fractional Anisotropy maps**, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1535. Liang Zhan<sup>1</sup>, Alex D. Leow<sup>2,3</sup>, Iman Aganj<sup>4</sup>, Christophe Lenglet<sup>4,5</sup>, Guillermo Sapiro<sup>4</sup>, Noam Harel<sup>5</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson<sup>1</sup> (2010). **Tensor Distribution Function Demixes Fibers in Multi-Shell High Angular Resolution Diffusion Images**, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1536. Burgaleta, M., Stein, J.L., Privado, J., Barysheva, M., Lee, A.D., Martínez, K., Colom, R., Linera, J.A., **Thompson, P.M.** (2010). Domain-specific role of the dorsal cingulum bundle in conflict monitoring, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1537. Yalin Wang, Yuting Wang, Arthur W. Toga, Paul M. Thompson (2010). Hippocampal Morphometry in AD with Surface Fluid Registration and Multivariate Tensor-Based Morphometry, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1538. Yalin Wang, Yang Song, Yi-Yu Chou, Arthur W. Toga, Paul M. Thompson (2010). Hippocampal and Ventricular Differences in 804 ADNI subjects mapped with Multivariate Tensor-Based Morphometry, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1539. Yalin Wang, Rudy Senstad, Arthur W. Toga, Paul M. Thompson (2010). MRI-based Biomarker Detection using Conformal Slit Maps and Machine Learning, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1540. Caroline C. Brun, Natasha Lepore, Xavier Pennec, Yi-Yu Chou, Agatha D. Lee, Paul M. Thompson (2010). SAFIRA: A Statistically Assisted Fluid Image Registration Algorithm, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1541. Caroline C. Brun\*, Anand A. Joshi\*, Natasha Lepore, Shantanu Joshi, Agatha D. Lee, Arthur W. Toga, Greig I. de Zubicaray, Katie L. McMahon, Nicholas G. Martin, Margaret J. Wright, Paul M. Thompson (2010). Cortical measures and heritability in 326 identical and fraternal twins, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1542. Gutman B, Svarer C, Leow AD, Yanovsky I, Toga AW, **Thompson PM** (2010). Creating Unbiased Minimal Deformation Templates for Brain Volume Registration, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1543. Rachel Aine Yotter, **Paul M Thompson**, Christian Gaser (2010). Surface Fractal Dimension Metric from Spherical Harmonic Analysis, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1544. Rachel Aine Yotter, PhD<sup>1</sup>, Robert Dahnke **Paul M. Thompson, PhD<sup>2</sup>**, Christian Gaser, PhD<sup>1</sup> (2010). Topological Correction of Brain Surface Meshes Using Spherical Harmonics, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1545. Vishal Patel, **Paul M. Thompson**, Arthur W. Toga (2010). Fast-PC: A Method to Quantify Connectivity in DTI through Fast-Marching Tractography, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1546. Gabriëlla A.M. Blokland<sup>1,2,3</sup>, Katie L. McMahon<sup>2</sup>, Sarah Gay<sup>2</sup>, **Paul M. Thompson<sup>4</sup>**, Nicholas G. Martin<sup>1</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright<sup>1,3</sup> (2010). *Sources of Variation in Cerebellar Activation During Cognition: A Twin fMRI Study*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1547. Tremblay, S.<sup>a</sup>, Henry, L.<sup>a</sup>, Brun, C.C.<sup>b</sup>, Tremblay, J.<sup>a</sup>, **Thompson, P.M.**<sup>b</sup>, Lepore, N.<sup>b,c</sup>, Lassonde, M.<sup>a</sup> (2010). Progressive atrophy in the corpus callosum of young concussed football players, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1548. Marina Boccardi<sup>1,2</sup>, Giovanni B. Frisoni<sup>1,2,3</sup>, Robert D. Hare<sup>4</sup>, Enrica Cavedo<sup>1,2</sup>, Pablo Najt<sup>5</sup>, Michela Pievani<sup>1,6</sup>, Paul E. Rasser<sup>7,8</sup>, Mikko P. Laakso,<sup>9,10</sup> Hannu J. Aronen,<sup>11,12</sup> Eila Repo-Tiihonen<sup>13</sup>, Olli Vaurio,<sup>13</sup> **Thompson PM**, Jari Tiihonen<sup>13</sup> (2010). *Amygdala Morphology in Offenders with Psychopathy*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

1549. Boccardi M., Cavedo E., Prestia A., Northoff G., Adorni A., Geroldi C., Bonetti M., **Thompson PM**, Frisoni G.B. (2010). *Hippocampal and amygdalar local structural differences in elderly patients with schizophrenia*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1550. Eileen Luders<sup>1</sup>, Nicolas Cherbuin<sup>2</sup>, **Paul M. Thompson<sup>1</sup>**, Boris Gutman<sup>1</sup>, Kaarin J. Anstey<sup>2</sup>, Perminder Sachdev<sup>3</sup>, Arthur W. Toga<sup>1</sup> (2010). *Almost nothing is left in the association between corpus callosum size and handedness*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1551. E. Cavedo<sup>1</sup>, M. Boccardi<sup>1</sup>, A. Beltramello<sup>2</sup>, C. Caltagirone<sup>3</sup>, **P.M. Thompson<sup>4</sup>**, G.B. Frisoni (2010). *Amygdalar local structural differences in Alzheimer's patients on 3T MRI*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1552. ME Thomason, EL Dennis, ML Henry, RF Johnson, **PM Thompson**, IH Gotlib (2010). *The resting brain: pattern reliability and longitudinal changes in children and adolescents*, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.
1553. Bruce Rosen<sup>2</sup>, Van J. Wedeen<sup>2</sup>, John D. Van Horn<sup>1</sup>, Bruce Fischl<sup>2</sup>, Randy L. Buckner<sup>3</sup>, Lawrence Wald<sup>2</sup>, Matti Hamalainen<sup>2</sup>, Steven Stuffelbeam<sup>2</sup>, Joshua Roffman<sup>2</sup>, David W. Shattuck<sup>1</sup>, **Paul M. Thompson<sup>1</sup>**, Roger P. Woods<sup>1</sup>, Nelson Freimer<sup>5</sup>, Robert Bilder<sup>4</sup>, and Arthur W. Toga<sup>1</sup> (2010). The Human Connectome Project, Organization for Human Brain Mapping, Barcelona, Barcelona, Spain, June 2010.

#### ICAD 2010

1554. Giovanni B. Frisoni, MD <sup>(1)(2)</sup>, Annapaola Prestia, PsyD <sup>(1)</sup>, Cristina Geroldi, MD <sup>(1)(2)</sup>, Andrea Adorni, MD <sup>(1)(2)</sup>, Roberta Ghidoni, MD <sup>(3)(4)</sup>, Giovanni Amicucci, MD <sup>(5)</sup>, Matteo Bonetti, MD <sup>(6)</sup>, Andrea Soricelli, MD <sup>(7)</sup>, Paul E. Rasser, MSc <sup>(8)(9)</sup>, **Paul M. Thompson, PhD <sup>(10)</sup>**, and Panteleimon Giannakopoulos, MD <sup>(11)(12)</sup> (2010). *Alzheimer's CSF markers in older schizophrenia patients*, **International Conference on Alzheimer's Disease (ICAD 2010)**.
1555. Annapaola Prestia, PsyD <sup>(1)</sup>, Paul E. Rasser, MSc <sup>(2)(3)</sup>, Valeria Drago, MD <sup>(1)</sup> Matteo Bonetti, MD <sup>(4)</sup>, **Paul M. Thompson, PhD <sup>(5)</sup>**, and Giovanni B. Frisoni, MD <sup>(1)(6)</sup> (2010). *In vivo neuropathology of cortical changes in incipient Alzheimer's disease*, **International Conference on Alzheimer's Disease (ICAD 2010)**.
1556. Kewei Chen, Ph.D. <sup>1,2,12</sup>, Napatkamon Ayutyanont, Ph.D. <sup>1,12</sup>, Jessica B.S. Langbaum, Ph.D. <sup>1,12</sup>, Adam Fleisher, M.D. <sup>1,12</sup>, Cole Reschke, B.S. <sup>1,12</sup>, Wendy Lee, M.S. <sup>1,14</sup>, Xiaofen Liu, M.S. <sup>1,12</sup>, Gene E Alexander, Ph.D. <sup>3,12</sup>, Dan Bandy, M.S. <sup>1,12</sup>, Norman L. Foster, M.D. <sup>5</sup>, Michael W. Weiner, M.D. <sup>6,7,8</sup>, Robert A. Koeppe, Ph.D. <sup>9</sup>, **Paul Thompson, Ph.D.**, William J. Jagust, M.D. <sup>10</sup>, Eric M. Reiman, M.D. <sup>1,4,11,12</sup>, and the Alzheimer's Disease Neuroimaging Initiative (2010). *Use of an Alzheimer's Disease-Related Hypometabolic Convergence Index to Predict Progression from Mild Cognitive Impairment to Alzheimer's Dementia*, **International Conference on Alzheimer's Disease (ICAD 2010)**.
1557. Liana G Apostolova MD, Kristy S. Hwang BS, Sona Babakchianian BS, Paul M. Thompson PhD, Jeffrey L. Cummings MD, Ezra Mulugeta, PhD, Jan P. Larsen MD PhD, Kolborn Bronnick PhD, Dag Aarsland MD PhD, Guido Alves MD PhD, Mona K Beyer PhD (2010). **Hippocampal atrophy and lateral ventricle enlargement in Parkinson's disease subjects with mild cognitive impairment**, **International Conference on Alzheimer's Disease (ICAD 2010)**.
1558. Mona K Beyer PhD, Kristy S. Hwang BS, Sona Babakchianian BS, Paul M. Thompson PhD, Jeffrey L. Cummings MD, Ezra Mulugeta, PhD, Jan P. Larsen MD, PhD, Kolborn Bronnick PhD, Dag Aarsland MD PhD, Guido Alves MD PhD, Liana G Apostolova MD (2010). CSF Abeta and tau, hippocampal atrophy and lateral ventricle

enlargement in Parkinson's disease with and without mild cognitive impairment, **International Conference on Alzheimer's Disease (ICAD 2010)**.

1559.Liana G. Apostolova MD, Kristy S. Hwang BS, Jason J. Lee, Fuying Gao, **Paul M. Thompson PhD**, John M. Ringman, Jeffrey L. Cummings MD, Giovanni Coppola MD (2010). **Gene expression correlates of hippocampal atrophy in cognitively normal elderly and MCI**, **International Conference on Alzheimer's Disease (ICAD 2010)**.

1560.C Raji, BS, BA, Pittsburgh, PA; O Lopez, MD; L H Kuller, MD; O Carmichael, PhD; H Gach, PhD; P Thompson, PHD, James Becker (2010). **White Matter Hyperintensities, Brain Structure, and Cognition**, **RSNA 2010, submitted**.

1561.C Raji, BS, BA, Pittsburgh, PA; K Ericson, PHD, ; O Lopez, MD; J T Becker, PhD; C Rosano, MD; A Newman, MD, MPH; H. Michael Gach; Paul Thompson; April Ho; Lewis Kuller (2010). **Physical Activity and Gray Matter Volume in Late Adulthood: the Cardiovascular Health Cognition Study**, **RSNA 2010, submitted**.

1562.den Braber A, D van 't Ent<sup>1</sup>, DC Cath<sup>2</sup>, DI Boomsma<sup>1</sup>, **PM Thompson**<sup>3</sup>, EJC de Geus<sup>1</sup> (2010). WHITE MATTER CHANGES IN MONOZYGOTIC TWINS DISCORDANT OR CONCORDANT FOR OBSESSIVE-COMPULSIVE SYMPTOMS: A COMBINED VBM-DTI STUDY, Annual Conference of the Behavioral Genetics Association, 2010.

#### **Society for Neuroscience (SFN) 2010.**

1563.Braskie MN,\* Jahanshad N,\* Stein JL,\* Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Ringman JM, Toga AW, **Thompson PM** (2010). Common Alzheimer's disease risk variant within the CLU gene affects white matter microstructure in young adults, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1564.Hibar DP, STEIN JL, N. JAHANSHAD<sup>1</sup>, M. BARYSHEVA<sup>1</sup>, A. FENG<sup>1</sup>, S. KOGACHI<sup>1</sup>, K. L. MCMAHON<sup>2</sup>, G. I. DE ZUBICARAY<sup>3</sup>, N. K. HANSELL<sup>4</sup>, N. G. MARTIN<sup>4</sup>, M. J. WRIGHT<sup>4</sup>, A. W. TOGA<sup>1</sup>, **Thompson PM** (2010). Voxelwise genome-wide association of Diffusion Tensor Images identifies putative novel variants influencing white matter integrity in 467 related young adults, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1565.Villalon J, Neda Jahanshad, Elliott A. Beaton, Tony J. Simon, Thompson PM (2010). Diffusion tensor imaging reveals profile of white matter abnormalities in fragile X and chromosome 22q11.2 deletion syndrome, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1566.Chiang MC, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, Ian Hickie<sup>4</sup>, Arthur W. Toga<sup>1</sup>, **Thompson PM** (2010). Environmental Factors surpass Genetic Influences in Determining Fiber Microstructure as the Brain Develops: A Diffusion Tensor Imaging study of 705 Twins, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1567.Di Paola M, Eileen Luders, Ilaria Spoletini, Fulvia Adriano, Ivo Alex Rubino, Alberto Siracusano, Giovanni Martinetti, **Thompson PM**, Yi-Yu Chou, Arthur W. Toga, Carlo Caltagirone, Spalletta G (2010). Corpus callosum structural changes in obsessive compulsive disorder: Correlation with cortical gray matter and neuropsychological scores, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1568.Jahanshad N, Jason L. Stein<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Arthur W. Toga<sup>1</sup>, **Thompson PM** (2010). Commonly-carried variants in the visual pathway gene, RAFTLIN, are associated with reduced white matter integrity in 451 young twins imaged with DTI. **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.

1569. Madsen SK, P. S. Saharan, C. R. Jack, M. W. Weiner, A. W. Toga, **Thompson PM** (2010). Caudate atrophy & its clinical correlates in 400 Alzheimer's disease, MCI, & healthy elderly subjects, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.
1570. Hua X\*, Gogtay N\*, Suh Lee<sup>1</sup>, Christina Boyle<sup>1</sup>, Reva Stidd<sup>2</sup>, Alex Chavez<sup>2</sup>, Judith L. Rapoport<sup>2</sup>, Arthur W. Toga<sup>1</sup>, **Thompson PM** (2010). Longitudinal mapping of brain development in healthy siblings of patients with childhood-onset schizophrenia, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.
1571. **Stein JL**, D. P. HIBAR<sup>1</sup>, S. K. MADSEN<sup>1</sup>, M. KHAMIS<sup>1</sup>, K. L. MCMAHON<sup>2</sup>, G. I. DE ZUBICARAY<sup>3</sup>, N. K. HANSELL<sup>4</sup>, N. G. MARTIN<sup>4</sup>, M. J. WRIGHT<sup>4</sup>, A. J. SAYKIN<sup>5</sup>, C. R. JACK, Jr<sup>6</sup>, M. W. WEINER<sup>7,8</sup>, A. W. TOGA<sup>1</sup>, **Thompson PM** (2010). Genome-wide search reveals dopamine-related genetic variation effects on caudate volume replicated in young and elderly populations (N=1198), **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.
1572. Lee S, Xue Hua<sup>1</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Arthur W. Toga<sup>1</sup>, **Thompson PM** (2010). Sexual dimorphism and age differences in brain atrophic rates in early Alzheimer's disease and normal aging, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.
1573. Colby JB, Bookheimer SY, Smoth LM, O'Connor MJ, Kan E, Rosso C, Houston S, **Thompson PM**, Sowell ER (2010). **Classifying prenatal methamphetamine and alcohol exposure using multimodal anatomical and diffusion data with support vector machines**, **Proc. Society for Neuroscience**, San Diego, CA, Nov. 2010.
1574. Po H. Lu, PsyD<sup>1</sup>, Mario Mendez, MD, PhD<sup>1,4</sup>, Grace J. Lee, PhD<sup>1</sup>, Paul M. Thompson, PhD<sup>1,2</sup>, Alex Leow, MD, PhD,<sup>1,2,3</sup> Clifford R. Jack, MD<sup>5</sup>, Jill Shapira, RN, PhD<sup>1,4</sup>, Elvira Jimenez, MPH<sup>1,4</sup>, Theresa Khoo, BA<sup>1</sup>, Brad F. Boeve, MD<sup>5</sup>, Richard J. Caselli, MD<sup>6</sup>, Neill R. Graff-Radford, MD<sup>7</sup>, Bruce L. Miller, MD<sup>8</sup>, George Bartzokis, MD<sup>1,3,4</sup>, David S. Knopman, MD<sup>5</sup> (2010). **Differential Patterns of Brain Atrophy Rates in Clinical Subtypes of Frontotemporal Lobar Degeneration Over 1 Year: A Tensor-Based Morphometry Study**, 7<sup>th</sup> International Conference of Frontotemporal Dementia, accepted. [Abstract #298].
1575. Colom R, Jason Stein (2), Priya Singh (2), David Hermel (2), Juan Álvarez-Linera (3), Miguel Burgaleta (1), Kenia Martínez (1), M<sup>a</sup> Angeles Quiroga (4), Pei Chun Shih (1), Wang, Y. (2), & Paul Thompson (2) (2010). **Hippocampus and Human Cognition**, **International Symposium on Intelligence Research (ISIR), 2010**.
1576. Burgaleta, M<sup>1</sup>., Stein, J.L.<sup>2</sup>, Barysheva, M.<sup>2</sup>, Lee, A.D.<sup>2</sup>, Ho, A.<sup>2</sup>, Colom, R.<sup>1</sup>, Álvarez-Linera, J.<sup>3</sup>, Thompson, P.M.<sup>2</sup> (2010). White Matter Integrity and General Cognitive Performance: a Tract-based Spatial Statistics approach. **International Symposium on Intelligence Research (ISIR), 2010**.
1577. Po H. Lu, Psy.D.<sup>1</sup>, Grace J. Lee, Ph.D.<sup>1</sup>, Erika P. Raven, B.A.<sup>2,3</sup>, Theresa Khoo, B.A.<sup>1</sup>, Kathleen Tingus, Ph.D.<sup>1</sup>, Justin Lee, M.A.<sup>1</sup>, Jim Mintz, Ph.D.<sup>4</sup>, Paul M. Thompson, Ph.D.<sup>1,5</sup>, George Bartzokis, M.D.<sup>2,3,5</sup> (2011). **Myelin Integrity Mediates Age-Related Slowing in Cognitive Processing Speed in a Sample of Healthy Elderly Men**, International Neuropsychological Society, Boston, MA, USA, Feb. 2011.
1578. Grace J. Lee<sup>1</sup>, Po H. Lu<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Alex D. Leow<sup>2</sup>, Stephanie Wu<sup>1</sup>, Stephanie Melchor<sup>1</sup>, George Bartzokis<sup>2,3</sup> (2011). **DIGIT SYMBOL SUBTEST PERFORMANCE PREDICTS RATES OF VENTRICULAR EXPANSION IN HEALTHY ELDERLY ADULTS: A TENSOR-BASED MORPHOMETRY STUDY**, International Neuropsychological Society, Boston, MA, USA, Feb. 2011.
1579. J. A. Eastman, K. Hwang, S. Babakchianian, L. Ramirez, N. Chow, P. Thompson, L. G. Apostolova (2010). The Relationship Between Cortical Thickness and Verbal Memory, International Neuropsychological Society, Boston, MA, USA, Feb. 2011.



1580. Oresic M (Oresic, Matej)<sup>1</sup>, Seppanen-Laakso T (Seppanen-Laakso, Tuulikki)<sup>1</sup>, Therman S (Therman, Sebastian)<sup>2</sup>, Sun D (Sun, Daqiang)<sup>3</sup>, Tang J (Tang, Jing)<sup>1</sup>, Mustonen U (Mustonen, Ulla)<sup>2</sup>, van Erp TGM (van Erp, Theo G. M.)<sup>3</sup>, Sysi-Aho M (Sysi-Aho, Marko)<sup>1</sup>, Suvisaari J (Suvisaari, Jaana)<sup>2</sup>, Peltonen L (Peltonen, Leena)<sup>2</sup>, Huttunen M (Huttunen, Matti)<sup>2</sup>, P (Thompson, Arthur)<sup>3</sup>, Toga AW (Toga, Arthur W.)<sup>3</sup>, Kaprio J (Kaprio, Jaakko)<sup>2</sup>, Lonnqvist J (Lonnqvist, Jouko)<sup>2</sup>, Cannon T (Cannon, Tyrone) ELEVATED SERUM SPHINGOMYELIN ASSOCIATES WITH REDUCED GRAY MATTER DENSITY: EVIDENCE FROM TWINS DISCORDANT FOR SCHIZOPHRENIA, SCHIZOPHRENIA RESEARCH Volume: 117 Issue: 2-3 Special Issue: Sp. Iss. SI Pages: 370-371 Published: APR 2010.

1581. Stidd R (Stidd, Reva)<sup>1</sup>, Lee S (Lee, Suh)<sup>2</sup>, Chavez A (Chavez, Alex)<sup>1</sup>, Hua X (Hua, Xue)<sup>2</sup>, Clasen L (Clasen, Liv)<sup>1</sup>, Giedd J (Giedd, Jay)<sup>1</sup>, Rapoport J (Rapoport, Judith)<sup>1</sup>, Thompson P (Thompson, Paul)<sup>2</sup>, Gogtay N (Gogtay, Nitin)<sup>1</sup> White Matter Development in Siblings of Patients with Childhood-Onset Schizophrenia Visualized Using Tensor-Based Morphometry, BIOLOGICAL PSYCHIATRY Volume: 67 Issue: 9 Pages: 258S-258S Supplement: Suppl. S Meeting Abstract: 883 Published: MAY 1 2010.

### ACNP 2010

1582. Merrill DA; Prabha Siddarth, PhD; Linda M. Ercoli, PhD; Alison C. Burggren, PhD; Vladimir Kepe, PhD; Karen J. Miller, PhD; Jeanne Kim, PhD; Helen Lavretsky, MD<sup>1</sup>; **Paul M. Thompson, PhD**; S. C. Huang, PhD; Susan Y. Bookheimer, PhD; Jorge R. Barrio, PhD; Gary W. Small, MD<sup>1</sup> (2010). **Vascular Risk and PET of Brain Amyloid and Tau in Persons Without Dementia, Proc. ACNP, 2010.**

1583. Beyer MK, Hwang KS, Babakchanian S, Chou Y, Bronnick K, Alves G, Larsen JP, Tysnes OB, **Thompson PM**, Cummings JL, Apostolova LG (2010). Hippocampal atrophy and ventricular enlargement in newly diagnosed Parkinson's disease: results from the Norwegian ParkWest study. 14th **International Congress on Parkinson's Disease and Movement Disorders**, Buenos Aires, Argentina, June 2010; selected for the *Blue Ribbon Highlights Session*.

1584. Hua X, Suh Lee<sup>1</sup>, Christina Boyle<sup>1</sup>, Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Jaroslaw Harezlak<sup>2</sup>, Constantin Yiannoutsos<sup>2</sup>, David Tate<sup>3</sup>, Bradford Navia<sup>4</sup>, **Paul M. Thompson<sup>1</sup>** and the HIV Neuroimaging Consortium (2010). *Frontal Lobe Atrophy Correlates with Nadir CD4+ Counts in HIV/AIDS: A Tensor-Based Morphometry Study of 210 Patients*, **CROI 2011.**

### AAN 2011

1585. Michela Pievani<sup>a</sup>, Samantha Galluzzi<sup>a</sup>, Paul M. Thompson<sup>b</sup>, Paul E. Rasser<sup>c,d,e</sup>, Matteo Bonetti<sup>f</sup>, Giovanni B. Frisoni<sup>a</sup> **APOE4 genotype is associated with greater atrophy of the hippocampal formation in Alzheimer's disease**, 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.

1586. Meredith N. Braskie, Luis D. Medina, Yaneth Rodriguez-Agudelo, Daniel H. Geschwind, Miguel Angel Macias-Islas, Paul M. Thompson, Susan Y. Bookheimer, John M. Ringman (2011). **Increased fMRI signal may indicate neuronal failure in pre-clinical familial Alzheimer's disease mutation carriers**, 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.

1587. Apostolova LG, Hwang KS, Kohannim O, Coppola G, Gao F, Cummings JL, Ringman J, **Thompson PM** (2011). Automated diagnostic classifiers for cognitively normal and mild cognitive impairment subjects using imaging, genotyping, and gene expression. 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.

- 1588.Liana G. Apostolova, Kristy S. Hwang, Omid Kohannim, Clifford R. Jack, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson** (2011). **Automated diagnostic classifiers for mild cognitive impairment and Alzheimer's disease using neuroimaging and CSF biomarkers**, 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.
- 1589.Sona Babakchanian<sup>1,2</sup>, Jennifer A. Eastman<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Ellen Woo<sup>1</sup>, Amity E. Green<sup>3</sup>, Charleen Zoumalan<sup>1</sup>, Reza Kanani<sup>5</sup>, Hyun Jeong Han<sup>4</sup>, Benjamin Wang<sup>1</sup>, **Paul M. Thompson**<sup>1,2</sup>, Liana G. Apostolova<sup>1,2</sup> (2011). **Correlations between Cortical Gray Matter Thickness and Logical Memory**. 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.
- 1590.Hwang KS, Coppola G, Johnson S, **Thompson PM**, Lee JJ, Ringman JM, Apostolova LG (2011). Mapping the effects of TOMM40 and APOE4 on hippocampal atrophy in cognitively normal elderly and MCI. 63<sup>rd</sup> American Academy of Neurology Meeting, Honolulu, Hawaii, April 2011.

### ISMRM 2011

- 1591.Jahanshad N, Aganj I, Lenglet C, Sapiro G, Toga AW, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, **Thompson PM** (2011). 4-Tesla high angular resolution diffusion tractography analysis of the human connectome in 234 subjects: Sex differences and EPI distortion effects, submitted to the Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**, November 11, 2010.
- 445.Lee AD, Lepore N, Brun CC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, **Thompson PM** (2011). Genetic Influences on White Matter Microstructure in 280 Twins scanned with 4 Tesla High Angular Resolution Diffusion Imaging, submitted to the Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**, November 11, 2010. [won platform talk].
- 446.Lepore N, Brun C, Descoteaux M, Chou YY, de Zubicaray GI, McMahon K, Wright M, Martin N, Gee JC, **Thompson PM** (2011). Optimizing the Metric for Brain White Matter Comparisons, Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**.
- 447.Wang Y, Panigrahy A, Ceschin R, Liu S, **Thompson PM**, Lepore N (2011). Surface Morphometry of Subcortical Structures in Premature Neonates, submitted to the Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**, November 11, 2010.
- 448.Colby JB, Soderberg L, Lebel C, Dinov ID, **Thompson PM**, Sowell ER (2011). Along-tract statistics allow for enhanced tractography analysis, Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**.
- 449.Goh A, Jahanshad N, **Thompson PM**, Lenglet C (2011). ODF-based Morphometry and Application to Brain Asymmetry, Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2011**.
- 450.Rossi R<sup>1</sup>, Lanfredi M<sup>1</sup>, Pievani M<sup>2</sup>, Boccardi M<sup>2</sup>, Beneduce R<sup>1</sup>, Magni L<sup>1</sup>, Rilloso L<sup>1</sup>, **Thompson PM**<sup>3</sup>, Rossi G<sup>1</sup>, Frisoni GB<sup>2,4</sup>. (2011). THE RELATIONSHIP BETWEEN BORDERLINE PERSONALITY DISORDER AND BIPOLAR DISORDER: A COMPARATIVE STUDY WITH ADVANCED NEUROIMAGING TOOLS, World Psychiatric Association Conference, Buenos Aires, September 2011.

### Organization for Human Brain Mapping (OHBM) 2011 (32 abstracts)

- 451.Jahanshad N, Katie L. McMahon, Greig I. de Zubicaray, Sarah E. Medland, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, Arthur W. Toga, **Thompson PM** (2011). **Blood-iron independent genetic**

- associations of brain structure to serum transferrin levels: a bivariate MRI and DTI analysis of 615 twins and siblings, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
452. Jahanshad N, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Arthur W. Toga, Thompson PM (2011). **Heritability and reliability of the Human Connectome mapped using 4-Tesla high angular resolution diffusion imaging (HARDI) in 156 young adult twins, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
453. Rajagopalan P, Neda Jahanshad, Ming-Chang Chiang, Jason L. Stein, Derrek P. Hibar, April Ryles, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Andrew J. Saykin, Clifford R. Jack, Jr., Michael W. Weiner, Arthur W. Toga, Thompson PM and the Alzheimer's Disease Neuroimaging Initiative (2011). **Folate gene variant is associated with brain volume differences: Replication in ADNI (N=740) and Queensland Twins (N=577). Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
454. Rajagopalan P, Hua X, Toga AW, Thompson PM, and the ADNI (2011). **Homocysteine levels are associated with regional brain volumes in 732 elderly subjects, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
455. Braskie MN, Neda Jahanshad, Jason L Stein, Marina Barysheva, Katie L McMahon, Greig I de Zubicaray, Nicholas G Martin, Margaret J Wright, John M Ringman, Arthur W Toga, Thompson PM (2011). **Schizophrenia risk variant in the *NGF* receptor gene, *NTRK1*, is associated with different white matter integrity in 391 young healthy adults, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
456. Chiang MC, Marina Barysheva, Katie L. McMahon, Greig I. de Zubicaray, Kori Johnson, Nicholas G. Martin, Arthur W. Toga, Margaret J. Wright, Thompson PM (2011). **Understanding the Network Topology of Gene Action on Brain Microstructure: An N=531 Twin Study, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
457. Kohannim O, Neda Jahanshad, Derrek P. Hibar, Jason L. Stein, Katie L. McMahon, Greig I. de Zubicaray, Sarah E. Medland, Grant W. Montgomery, John B. Whitfield, Nicholas G. Martin, Margaret J. Wright, Arthur W. Toga, Thompson PM (2011). **Investigating the Joint Effect of *HFE* mutations on White Matter Structure (N=544 DTI study). Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
458. Kohannim O, Derrek P. Hibar, Jason L. Stein, Neda Jahanshad, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Andrew J. Saykin, Clifford R. Jack Jr, Michael W. Weiner, Arthur W. Toga, Thompson PM, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Multi-SNP Effects on Temporal Lobe Structure Replicated in ADNI (N=738) and Queensland Twins (N=568), Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
459. Barysheva M, Jahanshad N, Altshuler LL, Toga AW, Thompson PM (2011). **DTI maps of abnormal white matter microstructure in euthymic bipolar patients, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
460. Blokland GAM, Nathan S. Hageman, Jason L. Stein, Neda Jahanshad, Arthur W. Toga, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, Thompson PM (2011). **Heritability of White Matter Tract Density, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**
461. Zhan L, N. Jahanshad, A.D. Leow, A.W. Toga, K. L. McMahon, G. I. de Zubicaray, N.G. Martin, M. J. Wright, Thompson PM (2011). **Verbal IQ correlates more strongly with white matter integrity in HARDI after multi-fiber demixing, Organization for Human Brain Mapping meeting, June 2011, Quebec City, Canada.**

462. Zhan L, J.J. GadElkarim, A.D. Leow, I. Aganj, C. Lenglet, G. Sapiro, N. Harel, Toga AW, **Thompson PM (2011). Probabilistic Tractography using the Tensor Distribution Function in Multiple-Shell HARDI, Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
463. Wang Y, Song Y, Rajagopalan P, An T, Liu K, Chou YY, Gutman B, Toga AW, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative (2011). *Surface-based TBM Boosts Power to Detect Disease Effects on the Brain: An N=804 ADNI Study*, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
464. Hua X, Suh Lee, Christina Boyle, Priya Rajagopalan, Arthur W. Toga, Jaroslaw Harezlak, Constantin Yiannoutsos, David Tate, Bradford Navia, **Thompson PM** and the HIV Neuroimaging Consortium (2011). *Brain White Matter Atrophy Correlates with Nadir CD4+ Counts and N-acetylaspartate (NAA) in HIV/AIDS: A Tensor-Based Morphometry Study of 210 Patients*, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
465. Hibar D, Jason L. Stein, Omid Kohannim, Neda Jahanshad, Andrew J. Saykin, Li Shen, Sungeun Kim, Nathan Pankratz, Tatiana Foroud, Matthew J. Huentelman, Steven G. Potkin, Clifford R. Jack, Jr., Michael W. Weiner, Arthur W. Toga, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Voxelwise gene-wide association study (vGeneWAS): multivariate gene-based association testing in 731 elderly subjects**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
466. Yotter RA, **Thompson PM**, Gaser C (2011). **Diffeomorphic Anatomical Registration on the Cortical Surface**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
467. Yotter RA, Dahnke R, **Thompson PM**, Gaser C (2011). **Topological Correction of 3D Volumes using Spherical Harmonics**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
468. **The ENIGMA Consortium (2011). Genome-Wide Association Meta-Analysis of Hippocampal Volume: Results from the ENIGMA Consortium**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
469. Patel V, Coroian C, Salamon N, **Thompson PM**, Toga AW (2011). **Fast-Marching Tractography Suggests Altered Hippocampal Connectivity in Temporal Lobe Epilepsy**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
470. Bearden CE, van Erp TGM, Rebecca A. Dutton, Christina Boyle, Sarah Madsen, Eileen Luders, Tuula Kieseppa, Annamari Tuulio-Henriksson, Matti Huttunen, Timo Partonen, Jaakko Kaprio, Jouko Lönngqvist, **Thompson PM**, Tyrone D. Cannon (2011). *Corpus Callosum Morphology in Twin Pairs Discordant for Bipolar Disorder*, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
471. Villalon J, Neda Jahanshad, Arthur W. Toga PhD, **Thompson PM**, Tony J. Simon PhD (2011). *White matter microstructural abnormalities in children with 22q deletion syndrome, Fragile X and Turner syndrome as evidenced by diffusion tensor imaging*, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
472. Sun D, Theo van Erp<sup>1</sup> Kathleen Chak; Leila Kushan; Wendy Lau; Sarah Jacobson; Carrie E. Bearden; Arthur W. Toga; **Thompson PM**; Tyrone D. Cannon, and the NAPLS Consortium (2011). **Altered Structural Brain Developmental Trajectory in Youth at Clinical Risk for Psychosis**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.

- 473.Looi J, Rajagopalan P, Walterfang M, Madsen S, **Thompson PM**, Chua P, Velakoulis D (2011). Altered Striatal Morphology in Huntington's disease, Frontotemporal Dementia & Alzheimer's Disease, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 474.Pievani M, Martina Bocchetta, Marina Boccardi, Samantha Galluzzi, Matteo Bonetti, **Thompson PM**, Giovanni B Frisoni. (2011). **Nucleus Accumbens atrophy in early- and late-onset Alzheimer's disease**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 475.Colby J, Soderberg L, Lebel C, Dinov ID, **Thompson PM**, Sowell ER (2011). Enhanced localization in Tractography Analyses with along-tract statistics, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 476.Boyle C, Xue Hua, Reva Stidd, Jay N. Giedd, Judith L. Rapoport Arthur W. Toga, **Thompson PM**, Nitin Gogtay (2011). **Intellectual Ability and Regional Cerebral Volumes in Normal Children assessed using Tensor-Based Morphometry**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 477.Craddock RC, Stephen LaConte, F. Xavier Castellanos, Xi-Nian Zuo, **Thompson PM**, Greig de Zubicaray, Katie McMahon, Ian Hickie, Nicholas Martin, Margaret Wright, Michael Milham (2011). **Genetics Influence Inter-subject Brain State Prediction**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 478.Apostolova LG, Coppola G, Kohannim O, **Thompson PM** (2011). **Automated diagnostic classifiers using imaging, genotyping, and gene expression**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 479.Prasad G, Jahanshad N, Aganj I, Lenglet C, Sapiro G, Toga AW, **Thompson PM** (2011). Atlas-Based Fiber Clustering for Multi-Subject HARDI Tractography, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 480.Lepore N, Joshi AA, Villalon J, Brun CC, Gee J, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2011). A Tensor-Based Morphometry Study of Twins using a New Combined Surface and Volume Registration Algorithm, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 481.Wang YL, Panigrahy A, Shi J, Ceschin R, Nelson MD, **Thompson PM**, Lepore N (2011). Subcortical Structures Morphometry in Premature Neonates: A Parametric Surface-based Approach, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 482.Hegarty C, Foland-Ross LC, Narr KL, Yang Y, Sugar CA, Bookheimer SY, McGough J, Thompson PM, Altshuler LL (2011). Cortical Thickness Analysis indicates a Bipolar-ADHD interaction in Co-Morbid Adults, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.

#### **International Society for the Study of Individual Differences 2011**

- 483.Burgaleta M, Roman FJ, Privado J, Escorial S, Stein JL, Martínez K, Alvarez-Linera J, **Thompson PM**, Colom R (2011). White matter integrity correlates with individual differences in working memory capacity and executive function, **International Society for the Study of Individual Differences 2011**.

#### **International Conference on Alzheimer's Disease (ICAD) 2011 (15 abstracts)**

- 484.Liana G. Apostolova, Kristy S. Hwang, Giovanni Coppola, Jason J. Lee, Fuying Gao, Jeffrey L. Cummings, **Thompson PM** (2011). **Peripheral blood gene expression correlates of cortical atrophy across cognitively**

- normal elderly and MCI**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 485.Liana G. Apostolova, Kristy Hwang, Omid Kohannim, Giovanni Coppola, Fying Gao, Jeffrey L. Cummings, **Thompson PM** (2011). **Automated diagnostic classifiers using imaging, genotyping, and gene expression data**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 486.Po H. Lu<sup>1</sup>, Grace J. Lee<sup>1</sup>, Xue Hua<sup>1,2</sup>, Alex D. Leow<sup>1,2,3</sup>, Stephanie Melchor<sup>1</sup>, Arthur W. Toga<sup>1,2</sup>, Clifford R. Jack, Jr.<sup>4</sup>, Michael W. Weiner<sup>5</sup>, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Age-Associated Memory Impairment is Associated with Greater Rate of Longitudinal Brain Atrophy**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 487.Grace J. Lee<sup>1</sup>, Po H. Lu<sup>1</sup>, Xue Hua<sup>1,2</sup>, Suh Lee<sup>1,2</sup>, Alex D. Leow<sup>1,2,3</sup>, Stephanie Wu<sup>1</sup>, Ken Nguyen<sup>1</sup>, Edmond Teng<sup>1,4</sup>, George Bartzokis<sup>2,5</sup>, Arthur W. Toga<sup>1,2</sup>, Clifford R. Jack, Jr.<sup>6</sup>, Michael W. Weiner, Ph.D.<sup>7</sup>, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative,(2011). **Depression Predicts Progressive Brain Atrophy in Mild Cognitive Impairment: An ADNI study**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 488.Annapaola Prestia, PsyD <sup>(1)</sup>, Annalisa Baglieri, PsyD <sup>(2)</sup>, Matteo Bonetti, MD <sup>(3)</sup>, Paul E. Rasser, MSc, <sup>(4)</sup>, **Thompson PM**, and Giovanni B. Frisoni, MD <sup>(1)</sup>(2011). **In vivo localization of aging and Alzheimer's disease effects on cortical gray matter in normal elderly and patients with mild cognitive impairment**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 489.Enrica Cavedo,<sup>1</sup> MS, Michela Pievani,<sup>1</sup> MS, Marina Boccardi,<sup>1</sup> PhD, Samantha Galluzzi,<sup>1</sup> MD, Matteo Bonetti,<sup>2</sup> MD, **Thompson PM**, Giovanni B. Frisoni,<sup>1</sup> MD (2011). **Amygdalar local structural differences in early- and late-onset Alzheimer's patients**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 490.Sona Babakchanian<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Giovanni Coppola<sup>1</sup>, Sterling Johnson<sup>3</sup>, **Thompson PM**, Jason J. Lee<sup>1</sup>, Jeffrey L. Cummings<sup>4</sup>, Liana G. Apostolova<sup>1,2</sup> (2011). **TOMM40 rs2075650 and TOMM40 PolyT Polymorphism Effects on Ventricular Enlargement in Individuals with and without Mild Cognitive Impairment**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 491.Sona Babakchanian<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Ellen Woo<sup>1</sup>, Amity E. Green<sup>3</sup>, Michael LaRocca<sup>4</sup>, Charleen Zoumalan<sup>1</sup>, Reza Kanani<sup>5</sup>, Hyun Jeong Han<sup>6</sup>, Benjamin Wang<sup>1</sup>, **Thompson PM**, Liana G. Apostolova<sup>1,2</sup> (2011). **Verbal Memory Associations with Cortical Thickness**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 492.Sona Babakchanian<sup>1,2</sup>, Kristy S. Hwang<sup>1,2</sup>, Ellen Woo<sup>1</sup>, Matthew Wright<sup>3</sup>, Amity E. Green<sup>4</sup>, Michael LaRocca<sup>5</sup>, Charleen Zoumalan<sup>1</sup>, Benjamin Wang<sup>1</sup>, **Thompson PM**, Liana G. Apostolova<sup>1,2</sup> (2011). **The Effects of Free Recall and Semantic Clustering on Cortical Thickness**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 493.Kristy S. Hwang<sup>1,2</sup>, Ellen Woo<sup>1</sup>, Amity E. Green<sup>3</sup>, Matthew J. Wright<sup>4</sup>, Michael LaRocca<sup>5</sup>, **Thompson PM**, Liana G. Apostolova<sup>1,2</sup> (2011). **Semantic clustering and hippocampal atrophy in mild cognitive impairment and Alzheimer's disease**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 494.Nicole Chow, BS, Kristy Hwang, BS, John Ringman, MD, Edward Teng, MD, PhD, **Thompson PM**, Greg Cole, PhD, Karen Gyls, PhD, Clifford R. Jack, MD, Leslie Shaw, PhD, Holly Soares, PhD, Michael Weiner, MD, Liana G.Apostolova, MD, MS (2011). **Plasma protein associations with hippocampal atrophy across the cognitive spectrum from normal aging to Alzheimer's disease**, International Conference on Alzheimer's

Disease (ICAD) 2011, July 16-21, Paris, France.

495. Nicole Chow, BS, Kristy Hwang, BS, Edward Teng, MD, PhD, **Thompson PM**, Karen Gylys, PhD, Greg Cole, PhD, Clifford R. Jack, Jr., MD, Leslie Shaw, PhD, Holly Soares, PhD, Michael W. Weiner, MD, Liana G. Apostolova, MD, MS (2011). **Low serum levels of ApoE associate with hippocampal atrophy in the ADNI cohort**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
496. Mona K. Beyer, MD, PhD<sup>1</sup>, Kolbjorn Bronnick<sup>1</sup>, Kristy S. Hwang BS<sup>2,3</sup>, Ole Bjorn Tysnes MD<sup>5</sup>, PhD, Guido Alves MD, PhD<sup>1,4</sup>, Jan Petter Larsen<sup>1</sup>, **Thompson PM**, Liana G. Apostolova MD, MS<sup>2,3</sup> (2011). **Memory impairment is associated with hippocampal atrophy in newly diagnosed Parkinson's disease**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
497. John M. Ringman, M.D., M.S., Sona Babachakian, B.A., Meredith N. Braskie, Ph.D., Kristy Hwang, B.A., **Thompson PM**, Giovanni Coppola, M.D., Liana G. Apostolova, M.D., M.S. (2011). **Increase in Caudate Size with Age in Carriers of the A431E PSENI Mutation**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
498. Kristy S. Hwang<sup>1,2</sup>, Karen Gylys<sup>1</sup>, Karen Taylor<sup>1</sup>, **Thompson PM**, Cole G, Jeffrey L. Cummings<sup>3</sup>, Liana G. Apostolova LG (2011). **Peripheral blood protein and cortical thickness in normal controls and mild cognitive impairment**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.

#### RSNA 2011

499. Raji C, Erickson K, Lopez OL, Kuller LH, Gach MH, **Thompson PM**; et al. (2011). *Regular Fish Consumption is Associated with Larger Gray Matter Volumes and Reduced Risk for Cognitive Decline in the Cardiovascular Health Study*. **RSNA 2011**.
500. Hua X, Christina P. Boyle<sup>1</sup>, Priya Rajagopalan<sup>1</sup>, Suh Lee<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Jaroslaw Harezlak<sup>2</sup>, Constantin Yiannoutsos<sup>2</sup>, David Tate<sup>3</sup>, Ron Cohen<sup>4</sup>, Bradford Navia<sup>5</sup>, **Thompson PM** and the HIV Neuroimaging Consortium (2011). **Low Nadir CD4+ Counts and disrupted MRS Brain Metabolite Levels are associated with reduced brain volume in HIV/AIDS**, International Conference on NeuroAIDS, Frascati, Italy, 2011.
501. Di Paola M, Luders E, Cherubini A, Castenada Sanchez C, **Thompson PM**, Caltagirone C, Toga AW, Squitieri F, Sabatini U (2011). *Structure abnormalities in Corpus Callosum of pre- and manifest Huntington disease subjects*. **World Congress on Huntington's Disease**, Melbourne, Australia.

#### Society for Neuroscience (SFN) 2011

502. Rajagopalan P, Jahanshad N, Stein JL, Toga AW, Jack CR, Weiner MW, **Thompson PM** (2011). Commonly-carried variant in the folate pathway gene, *MTHFR*, may partly account for homocysteine related brain atrophy. **Proc. Society for Neuroscience, 2011**.
503. Jahanshad N, Kohannim O, Hibar DP, Stein JL, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Sarah E. Medland<sup>4</sup>, Grant W. Montgomery<sup>4</sup>, John B. Whitfield<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, **Thompson PM** (2011). C282Y and H63D mutations in the **hemochromatosis** gene, *HFE*, jointly affect white matter structure in 509 young adults scanned with diffusion tensor imaging. **Proc. Society for Neuroscience, 2011**.
504. Kohannim O, Neda Jahanshad<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Jason L. Stein<sup>1</sup>, Ming-Chang Chiang<sup>1,2</sup>, April H. Reese<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Sarah E. Medland<sup>5</sup>, Grant W. Montgomery<sup>5</sup>, John B. Whitfield<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, **Thompson PM** (2011). Personalized Prediction of Brain

Fiber Integrity in 396 Young Adults based on Genotyping of Multiple Common Genetic Variants, **Proc. Society for Neuroscience, 2011.**

505. Dennis EL, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Jesse A. Brown<sup>2</sup>, Jeffrey D. Rudie<sup>3</sup>, Susan Y. Bookheimer<sup>2</sup>, Mirella Dapretto<sup>2,3</sup>, Kori Johnson<sup>4,6</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>5</sup>, Nicholas G. Martin<sup>6</sup>, Margaret J. Wright<sup>6</sup>, **Thompson PM** (2011). Heritability of structural brain connectivity network measures in 188 twins, **Proc. Society for Neuroscience, 2011.**
506. Barysheva M, Neda Jahanshad<sup>1</sup>, Foland-Ross LC, Lori L. Altshuler MD<sup>2</sup>, **Thompson PM** (2011). White Matter Deficits in Euthymic Bipolar Patients Revealed with Diffusion Tensor Imaging, **Proc. Society for Neuroscience, 2011.**
507. Hibar DP, Jason L. Stein, Omid Kohannim, Neda Jahanshad, Kori Johnson, Katie L. McMahon, Greig I. de Zubicaray, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, Andrew J. Saykin, Clifford R. Jack, Jr, Michael W. Weiner, Arthur W. Toga, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative\* (2011). **Alzheimer risk gene, GAB2, is associated with brain atrophy in both young and old adults: Discovery and replication in N=1321 subjects using principal components regression, Proc. Society for Neuroscience, 2011.**
508. Ryles AB, Neda Jahanshad<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Kori Johnson<sup>2,4</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Grant W. Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, **Thompson PM** (2011). Commonly-carried schizophrenia risk variant in the *NTRK1* neurotrophin gene affects brain connectivity and asymmetry, **Proc. Society for Neuroscience, 2011.**
509. Nir T, Neda Jahanshad<sup>1</sup>, Julio Villalon Reina<sup>1</sup>, Krista Nicolas, Edgar Busovaca<sup>2</sup>, **Thompson PM**, Victor G. Valcour<sup>2</sup> (2011). Effects of HIV and ApoE genotype on White Matter Microstructure Revealed by Diffusion Tensor Imaging in an Elderly Cohort, **Proc. Society for Neuroscience, 2011.**
510. Villalon J, Prasad G, Joshi S, Jahanshad N, Quintero A, Toga AW, **Thompson PM**, Simon T (2011). White matter tract abnormalities in fragile-X and 22q11.2 deletion syndromes, **Proc. Society for Neuroscience, 2011.**
511. Quiggle AS<sup>1,2</sup>, Hansell NK<sup>1</sup>, Johnson KA<sup>1,2</sup>, Blokland GA<sup>1,3</sup>, McMahon KL<sup>2</sup>, Montgomery GM<sup>1</sup>, **Thompson PM**<sup>4</sup>, Martin NG<sup>1</sup> de Zubicaray GI<sup>3</sup>, Wright MJ<sup>1,3</sup> (2011). *Genetics of cortical thickness in 822 twins*, **American Society for Human Genetics (ASHG)**, Sept. 2011.
512. Joshua D. Grill, PhD<sup>1\*</sup>, Lijie Di, PhD<sup>1,3</sup>, David Elashoff, PhD<sup>1,3</sup>, Po H. Lu, PsyD<sup>1</sup>, Omid Kohannim<sup>2</sup>, Liana Apostolova, MD<sup>1</sup>, John M. Ringman, MD<sup>1</sup>, Jeffrey L. Cummings, MD<sup>4</sup>, **Paul Thompson, PhD**<sup>2</sup>, and the Alzheimer's Disease Neuroimaging Initiative (2011). Estimating sample sizes for pre-dementia Alzheimer's disease clinical trials based on the Alzheimer's Disease Neuroimaging Initiative, **Clinical Trials in Alzheimer's Disease (CTAD) Conference**, San Diego, 2011.
513. Looi J, Rajagopalan P, Walterfang M, Madsen SK, **Thompson PM**, Macfarlane M, Ching C, Chua P, Velakoulis D (2011). Differential striatal morphology in Huntington's disease, Frontotemporal dementia and Alzheimer's disease, Proc. RANZCP (Professional College for Aus/NZ Psychiatrists) New Zealand Conference, Queenstown, 28 - 30 September 2011.

#### ACNP 2011

514. Alex Leow, Olusola Ajilore, Liang Zhan, Donatello Arienzo, Johnson GadElkarim, Aifeng Zhang, Anand Kumar, **Paul Thompson**, Jamie Feusner, Lori Altshuler (2011). White matter structural alterations in bipolar illness revealed using diffusion weighted MR imaging, ACNP 2011.



515. Wasana Prasithsuebsai<sup>1\*</sup>, Victor Valcour<sup>2,3</sup>, Neda Jahanshad<sup>4</sup>, Thanyawee Puthanakit, Linda Aurpibul, Pannee Visrutaratna, Stephen Kerr, Jintanat Ananworanich, Robert Paul<sup>6</sup>, **Paul M. Thompson<sup>4</sup>**, for the SEARCH-Thailand 012 protocol team (2012). **HIV-exposed Children Have Similar Brain Size, Brain Integrity, Cognition and Behavior Compared to HIV-negative Children**, not submitted to CROI 2012.

516. Victor Valcour<sup>1,2\*</sup>, Stephanie Chiao<sup>3</sup>, Howard J. Rosen<sup>1</sup>, Krista Nicolas<sup>1</sup>, Lauren Wendelken<sup>1</sup>, Oscar Alcantar<sup>1</sup>, Katherine P. Rankin<sup>1</sup>, Talia Nir, Paul Thompson, Bruce Miller<sup>1</sup> (2012). **Functional deficits identified in patients with Asymptomatic Neurocognitive Impairment (ANI) track to changes in brain integrity and size**, CROI 2012.

#### **American Academy of Neurology (AAN) 2012**

517. Enrica Cavedo, MS, Michela Pievani,<sup>1</sup> PhD, Marina Boccardi,<sup>1</sup> PhD, Samantha Galluzzi,<sup>1</sup> MD, Matteo Bonetti,<sup>2</sup> MD, **Paul M. Thompson<sup>3</sup>**, PhD, Giovanni B. Frisoni,<sup>1</sup> MD (2012). **Amygdalar local structural differences in Alzheimer's patients: relation with age and APOE genotype**, AAN 2012.

518. Michela Pievani, Martina Bocchetta<sup>1</sup>, Marina Boccardi<sup>1</sup>, Samantha Galluzzi<sup>1</sup>, Matteo Bonetti<sup>2</sup>, **Paul M. Thompson<sup>3</sup>**, Giovanni B. Frisoni<sup>1</sup> (2012). **Striatal abnormalities in early-onset and late-onset Alzheimer's Disease**, AAN 2012.

519. Nicole Chow<sup>1,2</sup>, Amity Green<sup>3</sup>, Kristy S. Hwang<sup>1,2</sup>, Clifford R. Jack<sup>4</sup>, Paul M. Thompson<sup>1</sup>, Liana G. Apostolova<sup>1,2</sup> **Comparison of automated and manual hippocampal segmentation**, AAN 2012.

520. Sona Babakchanian<sup>1,2</sup>, Ellen Woo<sup>1</sup>, Matthew Wright<sup>3</sup>, Amity E. Green<sup>4</sup>, Charleen Zoumalan<sup>1</sup>, Benjamin Wang<sup>1</sup>, Paul M. Thompson<sup>1,2</sup>, Liana G. Apostolova<sup>1,2</sup> **Age Effects on Cortical Thickness in Cognitively Normal Elderly Individuals with and without Mild Cognitive Impairment**, AAN 2012.

521. James T. Becker, PhD, Leonid Teverovisky, MS, H. Gach, PhD MS, Owen T. Carmichael, PhD, **Paul M. Thompson**, Lewis Kuller and Oscar L. Lopez, MD. **Differential Rates of Brain Volume Loss as a Function of Time to Develop AD among Cognitively Normal Individuals**, AAN 2012.

522. Kristen E. Sheau, Brian W. Haas, Ryan G. Kelley, **Paul M. Thompson**, Allan L. Reiss (2012). **Amygdala morphologic differences in Williams syndrome**, CNS 2012.

#### **ISMRM 2012**

523. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Christophe Lenglet<sup>2</sup>, Bryon A. Mueller<sup>4</sup>, Guillermo Sapiro<sup>3</sup>, Noam Harel<sup>2</sup>, Kelvin O. Lim<sup>4</sup>, Paul M. Thompson<sup>1</sup> (2012). **High-field brain structural connectivity at 7T compared to 3T**, ISMRM, Melbourne, Australia, 2012.

524. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Daniel Franc<sup>2,3</sup>, Bryon A. Mueller<sup>3</sup>, Matt A. Bernstein<sup>4</sup>, Bret J. Borowski<sup>4</sup>, Clifford R. Jack Jr<sup>4</sup>, Arthur W. Toga<sup>1</sup>, Kelvin O. Lim<sup>3</sup>, Christophe Lenglet<sup>5,6</sup>, Paul M. Thompson<sup>1</sup> (2011). **Variability in brain structural connectivity maps due to voxel size**, submitted to ISMRM, Melbourne, Australia, Nov. 9 2011.

525. Shan ZY, McMahon KL, de Zubicaray GI, **Thompson PM**, Martin NG, Wright MJ, Reutens D (2012). **Heritability of hemodynamic response function of the human brain during a working memory task**, accepted at ISMRM, Melbourne, Australia, Nov. 9 2011.

#### **IMFAR 2012**

- 526.J. D. Rudie<sup>1,2</sup>, J. B. Colby<sup>2,3</sup>, Z. Shehzad<sup>4</sup>, P. M. Douglas<sup>5</sup>, J. A. Brown<sup>2</sup>, D. Beck-Pancer<sup>1,5</sup>, L. M. Hernandez<sup>1,5</sup>, P. Levitt<sup>6</sup>, D. H. Geschwind<sup>2,3</sup>, **P. M. Thompson<sup>2,3</sup>**, M. S. Cohen<sup>2,5</sup>, S. Y. Bookheimer<sup>2,5</sup>, and Dapretto M (2012). Autism Classification Using Local, Global, and Connectome-Wide Measures of Functional Connectivity, International Meeting for Autism Research (IMFAR). May 17-19, 2012, Toronto, Canada.
- 527.D. Beck-Pancer<sup>1,2</sup>, J. D. Rudie<sup>1</sup>, L. Hernandez<sup>1,2</sup>, E. Kilroy<sup>1</sup>, P. Thompson<sup>3</sup>, P. Levitt<sup>4</sup>, D. H. Geschwind<sup>3</sup>, S. Y. Bookheimer<sup>2</sup>, and M. Dapretto<sup>1,2</sup> (2012). **Autism Risk Allele in *PLAUR* is Associated with Reduced Structural Connectivity in Autism**, International Meeting for Autism Research (IMFAR). May 17-19, 2012, Toronto, Canada.
- 528.Benzinger TLS, Blazey T, Koeppe R, Jack CR, Raichle M, Su Y, Marcus D, **Thompson PM**, Saykin AJ, Correia S, Johnson K, Sperling R, Schofield P, Rowe C, Fox NC, Brickman AM, Morris JC (2012). [<sup>11</sup>C] PIB, FDG and MR findings of preclinical AD in the DIAN cohort, **Human Amyloid Imaging (HAI) meeting**, 2012.
- 529.Benzinger TLS, Koeppe R, Su Y, Blazey T, Jack CR, **Thompson PM**, Saykin AJ, Correia S, Sperling R, Schofield P, Rowe C, Fox NC, Brickman, AM, Johnson K (2012). Reference tissue normalization in autosomal dominant AD: Comparison of cerebellar versus brainstem referencing for [<sup>11</sup>C]PIB in the DIAN cohort, **Human Amyloid Imaging (HAI) meeting**, 2012.
- 530.Meredith N. Braskie<sup>1</sup>, Omid Kohannim<sup>1</sup>, Neda Jahanshad<sup>1,6</sup>, Ming-Chang Chiang<sup>1</sup>, Marina Barysheva<sup>1</sup>, Kori Johnson<sup>2,4</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, John M. Ringman<sup>5</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson (2012). **Genetic variation within *NTRK3* influences white matter integrity in healthy young adults**, UC Irvine Conference on Imaging Genetics, Irvine, CA, Jan. 2012.
- 531.Labus J, Dinov ID, Toga AW, **Thompson PM**, Mayer E (2012). Gray Matter Morphometric Differences Associated with Clinical and Behavioral Phenotypes in IBS Patients and Healthy Controls, Digestive Disease Week 2012.

#### **OHBM 2012 (Beijing, China; 33 abstracts)**

- 532.Neda Jahanshad<sup>1</sup>, Victor G. Valcour<sup>2</sup>, Talia M. Nir<sup>1</sup>, Edgar Busovaca<sup>2</sup>, Krista Nicolas<sup>2</sup>, **Paul M. Thompson<sup>1</sup>** (2012). **Disrupted Cortical Connectivity in the Aging HIV+ Population**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
- 533.Xue Hua PhD<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Arthur W. Toga PhD<sup>1</sup>, Clifford R. Jack Jr MD<sup>2</sup>, Michael W. Weiner MD<sup>3,4,5,6,7</sup>, **Paul M. Thompson PhD<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2012). **Improved Power and Robustness of Tensor-Based Morphometry for Tracking Mild Cognitive Impairment**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
- 534.Talia Nir<sup>1\*</sup>, Neda Jahanshad<sup>1\*</sup>, Arthur W. Toga<sup>1</sup>, Matt A. Bernstein<sup>2</sup>, Bret J. Borowski<sup>2</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3</sup>, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **ANATOMICAL NETWORK MEASURES PREDICT FUTURE DECLINE IN PEOPLE WITH MILD COGNITIVE IMPAIRMENT**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
- 535.Priya Rajagopalan MBBS, MPH<sup>1</sup>, Helga Refsum, Xue Hua, Arthur W. Toga, Clifford R. Jack, Michael Weiner, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (2012). Mapping Associations between Kidney Biomarkers, Brain Atrophy and Cognition in the Elderly: An N=701 ADNI Study, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.

536. Priya Rajagopalan<sup>1</sup>, Xue Hua<sup>1</sup>, Omid Kohannim<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, **Paul M. Thompson**<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2012). Mapping the interaction between APOE-epsilon4 and TOMM40 SNPs and Brain Atrophy: An N=705 ADNI study, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
537. Meredith N Braskie<sup>1</sup>, Neda Jahanshad<sup>1,6</sup>, Omid Kohannim<sup>1</sup>, Ming-Chang Chiang<sup>1,7</sup>, Marina Barysheva<sup>1</sup>, Arthur W Toga<sup>1</sup>, John M Ringman<sup>5</sup>, Kori Johnson<sup>2,4</sup>, Katie L McMahon<sup>2</sup>, Greig I de Zubicaray<sup>3</sup>, Nicholas G Martin<sup>4</sup>, Margaret J Wright<sup>4</sup>, **Paul M Thompson** (2012). **Neuropsychiatric risk variants in *NTRK2* relate to white matter integrity in young healthy adults**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
538. Katherine L. Narr, Owen R. Phillips, Boris Gutman, Roger P. Woods, **Paul M. Thompson**, Jeffrey R. Alger, Randall T. Espinoza (2012). **Structural plasticity in fronto-limbic regions in patients with major depression treated with ECT**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
539. Omid Kohannim<sup>a</sup>, Xue Hua<sup>a</sup>, Priya Rajagopalan<sup>a</sup>, Derrek P. Hibar<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Clifford R. Jack Jr<sup>b</sup>, Michael W. Weiner<sup>c,d,e</sup>, **Paul M. Thompson**<sup>a</sup> and the Alzheimer's Disease Neuroimaging Initiative (2012). Accelerated Brain Atrophy Mapped in Carriers of Multiple AD Risk Genes: Empowering Clinical Trials, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
540. Emily L. Dennis, Neda Jahanshad, Arthur W. Toga, Kori Johnson, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Ian B. Hickie, Margaret J. Wright, **Paul M. Thompson** (2012). Development of the Structural Connectome Between Ages 12 and 30: An N=467 DTI Study, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
541. Emily L. Dennis, Neda Jahanshad, Arthur W. Toga, Kori Johnson, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Ian B. Hickie, Margaret J. Wright, **Paul M. Thompson** (2012). Sex Differences in the Human Structural Connectome, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
542. L. Zhan<sup>1</sup>, N. Jahanshad<sup>1</sup>, C. Lenglet<sup>2</sup>, B. A. Mueller<sup>3</sup>, G. Sapiro<sup>4</sup>, N. Harel<sup>2</sup>, K.O. Lim<sup>3</sup>, **P.M. Thompson** (2012). **Field strength effects on brain structural connectivity measures in HARDI**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
543. L. Zhan<sup>1</sup>, D. Franc<sup>2,3</sup>, V. Patel<sup>1</sup>, N. Jahanshad<sup>1</sup>, Y. Jin<sup>1</sup>, B.A. Mueller<sup>3</sup>, M.A. Bernstein<sup>4</sup>, B.J. Borowski<sup>4</sup>, C.R. Jack Jr<sup>4</sup>, K.O. Lim<sup>3</sup>, **P.M. Thompson** (2012). **How does spatial resolution affect brain connectivity maps?** **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
544. Talia M. Nir<sup>a</sup>, Neda Jahanshad<sup>ab</sup>, Krista Nicolas<sup>c</sup>, Edgar Busovaca<sup>c</sup>, **Paul M. Thompson**<sup>a</sup>, Victor G. Valcour (2012). **White matter integrity in older people with HIV**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
545. Yaling Yang, Ph.D.<sup>1</sup>, Pan Wang, Ph.D.<sup>2</sup>, Laura A. Baker Ph.D.<sup>2</sup>, Hanna Damasio, M.D.<sup>3</sup>, Anand A. Joshi Ph.D.<sup>4</sup>, Shantanu Joshi, Ph.D.<sup>1</sup>, Katherine L. Narr, Ph.D.<sup>1</sup>, Adrian Raine, D. Phil.<sup>5</sup> & **Paul M. Thompson**, Ph.D. (2012). Variations in Frontal and Striatal Morphology Associate with Psychopathic Traits in Adolescents, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
546. Yaling Yang, Ph.D.<sup>1</sup>, Pan Wang, Ph.D.<sup>2</sup>, Laura A. Baker Ph.D.<sup>2</sup>, Hanna Damasio, M.D.<sup>3</sup>, Anand A. Joshi Ph.D., Shantanu Joshi, Ph.D.<sup>1</sup>, Katherine L. Narr, Ph.D.<sup>1</sup>, Adrian Raine, D. Phil.<sup>5</sup> & **Paul M. Thompson**, Ph.D. (2012). Thinner Temporal Cortex Identified in Adolescents with Increasing Psychopathy over Time, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.

547. Ernesta M Meintjes, Sandra W Jacobson, Owen R Phillips, Andre JW van der Kouwe, Christopher D Molteno, Boris A Gutman, Roger P. Woods, **Paul M Thompson**, Joseph L Jacobson, Katherine L Narr (2012). TBM analysis of regional changes in brain volume in relation to prenatal alcohol exposure, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
548. S. H. Joshi<sup>1</sup>, A. A. Joshi<sup>2</sup>, A. W. Toga<sup>1</sup>, K. L. McMahon<sup>3</sup>, G. I. de Zubicaray<sup>4</sup>, N. G. Martin<sup>5</sup>, M. J. Wright<sup>5</sup>, and **P. M. Thompson** (2012). **Sulcal Shape Heritability on the Cortex**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
549. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>2,4</sup>, Ian B. Hickie<sup>5</sup>, Paul M. Thompson (2012). **Left/Right Asymmetries in Brain Connectivity Intensify with Age: An N=569 HARDI Study**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
550. P. Kochunov<sup>1</sup>, N Jahanshad<sup>2</sup>, E Sprooten<sup>3</sup>, **P Thompson**<sup>4</sup>, A MCINTOSH<sup>3</sup>, I Deary<sup>3</sup>, M Bastin<sup>3</sup>, A Toga<sup>5</sup>, K McMahon<sup>6</sup>, G Zubicaray<sup>7</sup>, G Montgomery<sup>8</sup>, S Medland<sup>8</sup>, N Martin<sup>8</sup>, M Wright<sup>8</sup>, M Carless<sup>9</sup>, J Curran<sup>10</sup>, E Hong<sup>11</sup>, R Duggirala<sup>9</sup>, R Olvera<sup>12</sup>, T Dyer<sup>9</sup>, J Blangero<sup>9</sup>, D Glahn (2012). Genome-wide association of full brain white matter integrity – from the ENIGMA DTI working group, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
551. Sinclair B, McMahon KL, de Zubicaray GI, Wright MJ, Martin NG, **Thompson PM**, Blokland G (2012). Heritability of Graph Theoretic Characteristics of Resting State fMRI Networks, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
552. Zuyao Shan, Katie McMahon, Greig Zubicaray, **Paul Thompson**, Nicholas Martin, Margaret Wright, David Reutens (2012). **Test-retest Reliability of Hemodynamic Response Function in fMRI**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
553. L. Zhan<sup>1</sup>, Y.L. Wang<sup>2</sup>, **P.M. Thompson** (2012). **Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using Heat Kernel Signature and Möbius Transformation**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China June 10-14, 2012.
554. Florian Kurth<sup>1</sup>, Emeran A. Mayer<sup>1</sup>, Arthur W. Toga<sup>2</sup>, **Paul M. Thompson**<sup>2</sup>, Eileen Luders<sup>2</sup> (2012). Callosal correlates of hand motor performance in healthy right-handed children and adolescents, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
555. Gabriëlla A. M. Blokland<sup>1,2,3</sup>, Angus K. Wallace<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>1</sup>, **Paul M. Thompson**<sup>4</sup>, Greig I. de Zubicaray<sup>3</sup>, Margaret J. Wright<sup>1,3</sup> (2012). **Genome-wide association analysis of working memory brain activation in a population-based twin-sibling sample**, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
556. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Jesse A. Brown<sup>2</sup>, Susan Y. Bookheimer<sup>3</sup>, Arthur W. Toga<sup>1</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie McMahon<sup>4</sup>, Nicholas Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, **Paul M. Thompson**<sup>1</sup> (2012). **AUTOMATIC HARDI WHITE MATTER TRACT LABELING WITH MULTIPLE ATLAS FUSION**, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
557. Sarah K. Madsen, Priya Rajagopalan, Christina Boyle, Lubov Zeifman, Cyrus A. Raji, Leonid Teverovskiy, Lewis Kuller, J Michael Gach, Owen T Carmichael, James T. Becker, Oscar L. Lopez, **Paul M. Thompson** for the Cardiovascular Health Study (CHS) (2012). **Anatomic Correlates of Longevity in 905 Subjects**, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.

- 558.J. Villalon Reina, N. Jahanshad, A. Joshi, K. L. McMahon, G. I. de Zubicaray, M. J. Wright, A.W. Toga, R. M. Leahy, **P.M. Thompson** (2012). HOW DO CORTICAL THICKNESS PROFILES DEPEND ON THALAMIC CONNECTIVITY? Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 559.Gutman B, Wang YL, Rajagopalan P, Toga AW, **Thompson PM** (2012). Empowering Anatomical Shape Analysis with Medial Curves and 1-D Group-wise Registration, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 560.Priya Rajagopalan<sup>1</sup>, Neda Jahanshad, Arthur W. Toga<sup>1</sup>, Clifford R. Jack<sup>2</sup>, Michael W. Weiner<sup>3, 4</sup>, **Paul Thompson<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2012). White matter Hyperintensities, *MTHFR* genotype and Brain Volumes in 509 Cognitively Impaired ADNI subjects, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 561.Prasad G, Kohannim O, Joshi S, Jahanshad N, Villalon J, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2012). Genetic Analysis of Fibers in White Matter Pathways from HARDI Images, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 562.Christina Boyle<sup>1</sup>, Cyrus A. Raji<sup>2</sup>, Leonid Teverovskiy<sup>2</sup>, Priya Rajagopalan<sup>1</sup>, Sarah K. Madsen<sup>1</sup>, Lewis Kuller<sup>2</sup>, Owen T. Carmichael<sup>2</sup>, James T. Becker<sup>2</sup>, Oscar L. Lopez<sup>2</sup>, Paul M. Thompson<sup>1</sup> (2012). **Fish Consumption and Brain Structure in a Multi-Site Community Cohort**, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 563.Jie Shi, **Paul M. Thompson**, Yuting Wang, Boris Gutman, Yalin Wang, and the Alzheimer's Disease Neuroimaging Initiative (2012). Surface Fluid Registration and Its Application to Human Brain Mapping, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 564.Tian Ge, Jianfeng Feng, Derrek Hibar, **Paul M. Thompson**, Thomas Nichols (2012). Increasing Power for Voxel-wise Genome-wide Association Studies, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012 [Also Platform Talk].

#### ICAD/AAIC Conference 2012

- 565.Michela Pievani<sup>1</sup>, Martina Bocchetta<sup>1</sup>, Marina Boccardi<sup>1</sup>, Samantha Galluzzi<sup>1</sup>, Matteo Bonetti<sup>2</sup>, **Paul M Thompson<sup>3</sup>**, Giovanni B Frisoni<sup>1</sup> (2012). **Morphological changes in the striatum in early and late onset Alzheimer's disease, AAIC Conference, 2012.**
- 566.Benzinger TLS<sup>1</sup>, Blazey T<sup>1</sup>, Koeppe R<sup>2</sup>, Jack CR<sup>3</sup>, Raichle M<sup>1</sup>, Su Y<sup>1</sup>, Snyder A<sup>1</sup>, Marcus D<sup>1</sup>, **Thompson PM<sup>5</sup>**, Saykin AJ<sup>6</sup>, Correia S<sup>7</sup>, Johnson K<sup>8</sup>, Sperling R<sup>8</sup>, Schofield P<sup>9</sup>, Rowe C<sup>10</sup>, Fox NC<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Rimajova M, Mathis C<sup>4</sup>, McDade E<sup>4</sup>, Klunk W<sup>4</sup>, Weiner M<sup>14</sup>, Bateman R<sup>1</sup>, Fagan A<sup>1</sup>, Goate A<sup>1</sup>, Xiong C<sup>1</sup>, Buckles V<sup>1</sup>, Moulder K<sup>1</sup>, Morris JC<sup>1</sup> (2012). **Elevated [<sup>11</sup>C] PIB precedes dementia in autosomal dominant AD by up to 25 years: PIB, FDG and atrophy AD in the DIAN cohort, ICAD Conference, 2012.**
- 567.Benzinger TLS<sup>1</sup>, Blazey T<sup>1</sup>, Koeppe R<sup>2</sup>, Jack CR<sup>3</sup>, Raichle M<sup>1</sup>, Ances B<sup>1</sup>, Snyder A<sup>1</sup>, Marcus D<sup>1</sup>, Thompson PM<sup>5</sup>, Saykin AJ<sup>6</sup>, Correia S<sup>7</sup>, Johnson K<sup>8</sup>, Sperling R<sup>8</sup>, Schofield P<sup>9</sup>, Rowe C<sup>10</sup>, Fox NC<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Rimajova M, Mathis C<sup>4</sup>, McDade E<sup>4</sup>, Klunk W<sup>4</sup>, Weiner M<sup>14</sup>, Bateman R<sup>1</sup>, Fagan A<sup>1</sup>, Goate A<sup>1</sup>, Xiong C<sup>1</sup>, Buckles V<sup>1</sup>, Moulder K<sup>1</sup>, Morris JC (2012). **Progressive White Matter Abnormalities in Autosomal Dominant AD: Results of the DIAN Study, ICAD Conference, 2012.**
- 568.Chhatwal J, Schultz A, Johnson K, Benzinger TLS, Jack CR, Salloway S, Ringman J, Koeppe R, Marcus D, **Thompson PM**, Saykin AJ, Correia S, Schofield P, Rowe C, Fox NC, Brickman AM, Mayeux R, Rimajova M, Mathis C, McDade E, Klunk W, Weiner M, Bateman R, Fagan A, Goate A, Xiong C, Buckles V, Moulder K,

- Morris JC, Sperling RA (2012). Impaired default network functional connectivity in autosomal dominant Alzheimer's disease: Findings from the DIAN study, **ICAD Conference, 2012.**
569. Cash DM<sup>1</sup>, Ridgway GR<sup>1</sup>, Ryan NS<sup>1</sup>, Kinnunen KM<sup>1</sup>, Yeatman T<sup>1</sup>, Malone I<sup>1</sup>, Benzinger TLS<sup>2</sup>, Koeppe R<sup>3</sup>, Jack CR<sup>4</sup>, Raichle M<sup>2</sup>, Marcus D<sup>2</sup>, Ringman J<sup>6</sup>, **Thompson PM**<sup>6</sup>, Saykin AJ<sup>7</sup>, Salloway S<sup>8</sup>, Correia S<sup>8</sup>, Johnson K<sup>9</sup>, Sperling R<sup>9</sup>, Schofield P<sup>10</sup>, Rowe C<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Mathis C<sup>5</sup>, McDade E<sup>5</sup>, Klunk W<sup>5</sup>, Weiner M<sup>14</sup>, Bateman R<sup>2</sup>, Goate A<sup>2</sup>, Xiong C<sup>2</sup>, Buckles V<sup>2</sup>, Moulder K<sup>2</sup>, Morris JC<sup>2</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> (2012). A Voxel Based Morphometry Study of Volumetric MRI in Familial Alzheimer's Disease, **ICAD Conference, 2012.**
570. Kinnunen KM<sup>1</sup>, Cash DM<sup>1</sup>, Liang Y<sup>1</sup>, Leung KK<sup>1</sup>, Cardoso MJ<sup>1</sup>, Modat M<sup>1</sup>, Yeatman T<sup>1</sup>, Malone I<sup>1</sup>, Benzinger TLS<sup>2</sup>, Koeppe R<sup>3</sup>, Jack CR<sup>4</sup>, Raichle M<sup>2</sup>, Marcus D<sup>2</sup>, Ringman J<sup>6</sup>, **Thompson PM**<sup>6</sup>, Saykin AJ<sup>7</sup>, Salloway S<sup>8</sup>, Correia S<sup>8</sup>, Johnson K<sup>9</sup>, Sperling R<sup>9</sup>, Schofield P<sup>10</sup>, Rowe C<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Mathis C<sup>5</sup>, McDade E<sup>5</sup>, Klunk W<sup>5</sup>, Weiner M<sup>14</sup>, Bateman R<sup>2</sup>, Goate A<sup>2</sup>, Xiong C<sup>2</sup>, Buckles V<sup>2</sup>, Moulder K<sup>2</sup>, Morris JC<sup>2</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> (2012). Cross-sectional cerebral volumetric differences and associations with estimated time to age-at-onset in familial Alzheimer's disease: Findings from the DIAN study, **ICAD Conference, 2012.**
571. Kinnunen KM<sup>1</sup>, Cash DM<sup>1</sup>, Leung KK<sup>1</sup>, Liang Y<sup>1</sup>, Cardoso MJ<sup>1</sup>, Modat MM<sup>1</sup>, Nicholas J<sup>1</sup>, Benzinger TLS<sup>2</sup>, Koeppe R<sup>3</sup>, Jack CR<sup>4</sup>, Raichle M<sup>2</sup>, Marcus D<sup>2</sup>, Ringman J<sup>6</sup>, **Thompson PM**<sup>6</sup>, Saykin AJ<sup>7</sup>, Salloway S<sup>8</sup>, Correia S<sup>8</sup>, Johnson K<sup>9</sup>, Sperling R<sup>9</sup>, Schofield P<sup>10</sup>, Rowe C<sup>11</sup>, Brickman AM<sup>12</sup>, Mayeux R<sup>12</sup>, Mathis C<sup>5</sup>, McDade E<sup>5</sup>, Klunk W<sup>5</sup>, Weiner M<sup>14</sup>, Bateman R<sup>2</sup>, Goate A<sup>2</sup>, Xiong C<sup>2</sup>, Buckles V<sup>2</sup>, Moulder K<sup>2</sup>, Morris JC<sup>2</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> (2012). Brain and hippocampal rates of atrophy in familial Alzheimer's disease mutation carriers: preliminary findings from the DIAN study. **ICAD Conference, 2012.**
572. Becker JA, Koeppe R, Sperling RA, Benzinger TLS<sup>1</sup>, Blazey T<sup>1</sup>, Jack CR<sup>3</sup>, Raichle M<sup>1</sup>, Su Y<sup>1</sup>, Snyder A<sup>1</sup>, Marcus D<sup>1</sup>, **Thompson PM**<sup>5</sup>, Saykin AJ<sup>6</sup>, Correia S<sup>7</sup>, Schofield P<sup>9</sup>, Rowe C<sup>10</sup>, Fox NC<sup>11</sup>, Brickman AM<sup>12</sup>, Rimajova M, Mathis C<sup>4</sup>, McDade E<sup>4</sup>, Weiner M<sup>14</sup>, Bateman R<sup>1</sup>, Fagan A<sup>1</sup>, Goate A<sup>1</sup>, Xiong C<sup>1</sup>, Buckles V<sup>1</sup>, Moulder K<sup>1</sup>, Morris JC<sup>1</sup>, Johnson KA (2012). FDG Metabolism in the DIAN study of Autosomal Dominant Alzheimer's Disease, **ICAD Conference, 2012.**
573. Kristy S. Hwang<sup>1,3</sup>, Giovanni Coppola<sup>2</sup>, **Paul M. Thompson**<sup>1,2,3</sup>, Jeffrey L. Cummings<sup>4</sup>, Liana G. Apostolova<sup>1,3</sup> (2012). **Microtubule-associated protein tau H2 haplotype is associated with frontotemporal atrophy in cognitively normal elders**, **ICAD Conference, 2012.**
574. Liana G. Apostolova, Kristy Hwang, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson (2012). Predicting brain amyloidosis in MCI using clinical, cognitive, imaging and peripheral blood protein measures**, **ICAD Conference, 2012 [Late-Breaking Abstract].**

## FTD 2012

575. Looi J, Rajagopalan P, Walterfang M, Madsen S, **Thompson PM**, McFarlane MD, Ching C, Chua P, Velakoulis D (2011). Differential Putaminal Morphology in Huntington's disease, Frontotemporal Dementia & Alzheimer's Disease, **8<sup>th</sup> International Conference on Fronto-Temporal Dementias**, Manchester, Sept. 5-7 2012.
576. *C Raji, MD, PhD, Pittsburgh, PA; K Erickson, PhD; O Lopez, MD; J T Becker, PhD; O Carmichael, PhD; H Gach; P Thompson, et al. (2012). Energy Expenditure is associated with brain injury in normal cognition, MCI, and AD, RSNA 2012.*
577. Saykin AJ, Shen L, Risacher SL, Swaminathan S, Kim S, Nho K, **Thompson PM**, Potkin SG, Farrer LA, Lovestone S, Jack CR, Jagust WJ, Weiner MW, and the Alzheimer's Disease Neuroimaging Initiative (ADNI). Structural, functional and molecular imaging as intermediate phenotypes for studies of candidate genes, pathways

and GWAS in Alzheimer's disease. Oral presentation, Featured Research Session (FRS), Alzheimer's Association International Conference (AAIC) in Vancouver, British Columbia, Canada, July 14-19, 2012.

578. John Kyle Brubaker, B.S.\*, Mohamad Navab, M.D.\*, Paul Thompson, Ph.D.^, Samra Vazirian, M.D. (2012). *Blood Pressure and Cognitive Function: A Look at the Interplay Between Hypertension, Obesity, and their Effects on General Cognition*, **International Academy of Cardiology**, 17th World Congress on Heart Disease (WCHD), Toronto, July 27-30, 2012.
579. John Kyle Brubaker, B.S.\*, Mohamad Navab, M.D.\*, Paul Thompson, Ph.D.^, Samra Vazirian, M.D. (2012). *How Exercise Can Help Thwart the Pernicious Effects of Obesity*, **International Academy of Cardiology**, 17th World Congress on Heart Disease (WCHD), Toronto, July 27-30, 2012.

#### **Society for Neuroscience (SFN) 2012 (16 abstracts)**

580. Neda Jahanshad<sup>1</sup>, Xue Hua<sup>1</sup>, Priya Rajagopalan<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Cliff R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Sarah E. Medland<sup>7</sup>, Katie L. McMahon<sup>5</sup>, Greig I. de Zubicaray<sup>6</sup>, Grant W. Montgomery<sup>7</sup>, Nicholas G. Martin<sup>7</sup>, Margaret J. Wright<sup>7</sup>, **Paul M. Thompson<sup>1</sup>** and the Alzheimer's Disease Neuroimaging Initiative (2012). Connectome-wide genome-wide scan of young adults discovers common genetic variant associated with dementia severity in the elderly, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
581. Omid Kohannim<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Diana Tehrani<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1,2</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr.<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, **Paul M. Thompson<sup>1</sup>** for the Alzheimer's Disease Neuroimaging Initiative (2012). Common variants in neural cell adhesion genes are associated with hippocampal volume on MRI in elderly subjects, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
582. Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Bret Borowski<sup>2</sup>, Matt A. Bernstein<sup>2</sup>, Clifford R. Jack Jr.<sup>2</sup>, Michael W. Weiner<sup>3</sup>, **Paul M. Thompson<sup>1</sup>** (2012). Diffusion tensor imaging reveals widespread white matter abnormalities in cognitively impaired elderly subjects, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
583. Florence F. Roussotte, Neda Jahanshad, Omid Kohannim, Elizabeth R. Sowell, Priya Rajagopalan, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). A single-nucleotide polymorphism (SNP) in the delta-opioid receptor gene, *OPRD1*, is associated with differences in regional brain volumes in elderly adults, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
584. Yaling Yang, Ph.D., Pan Wang, Ph.D., Laura A. Baker Ph.D., Hanna Damasio, M.D., Anand A. Joshi Ph.D., Shantanu Joshi, Ph.D., Katherine L. Narr, Ph.D., Adrian Raine, D. Phil. & **Paul M. Thompson, Ph.D.** (2012). Abnormal cortical thickness associates with psychopathic traits in adolescents, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
585. Diana Tehrani<sup>1</sup>, Omid Kohannim<sup>1</sup>, Neda Jahanshad<sup>1,2</sup>, Emily Dennis<sup>1</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Sarah E. Medland<sup>5</sup>, Grant W. Montgomery<sup>5</sup>, Nicholas G. Martin<sup>5</sup>, Margaret J. Wright<sup>5</sup>, **Paul M. Thompson** (2012). Common variant in autism risk gene, *RBFox1*, is associated with altered temporal lobe structure in 694 healthy young adults, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
586. Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Ian B. Hickie<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, Paul M. Thompson<sup>1</sup> (2012). Altered structural brain connectivity in healthy carriers of schizophrenia risk gene, *DISC1*. **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.

- 587.S. K. MADSEN, L. LIANG, P. TECHATHAVEEWAT, V. CHIKARIAN, M. BRASKIE, S.Y. Bookheimer, G. SMALL, P. M. THOMPSON (2012). Thyroid hormone levels are associated with fronto-parietal cortical gray matter thickness in the elderly, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 588.Christopher Ching, Priya Rajagopalan, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, Paul M. Thompson (2012). Elderly people with lower vitamin B12 levels have smaller hippocampal and caudate volumes, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 589.April B. Ryles<sup>1</sup>, Omid Kohannim<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Katie L. McMahon<sup>5</sup>, Greig I. de Zubicaray<sup>6</sup>, Grant W. Montgomery<sup>7</sup>, Nicholas G. Martin<sup>7</sup>, Margaret J. Wright<sup>7</sup>, Paul M. Thompson (2012). **Alzheimer's disease risk variant in the *FRMD6* gene is associated with altered brain structure: Opposite Effects in 740 elderly and 755 young adults**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 590.Priya Rajagopalan<sup>1</sup>, Boris Gutman<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr.<sup>2</sup>, Michael W. Weiner<sup>3, 4</sup>, Paul M. Thompson (2012). **Plasma cortisol is associated with accelerated brain atrophy: An Alzheimer's Disease Neuroimaging Initiative (ADNI) study**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 591.L. Zhan<sup>1</sup>, D. Arienzo<sup>2</sup>, B. A. Mueller<sup>3</sup>, C. Lenglet<sup>4</sup>, G. Sapiro<sup>5</sup>, K. O. Lim<sup>3</sup>, P.M. Thompson<sup>1</sup> (2012). Differences in structural brain networks between young adulthood and old age, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 592.Boris Gutman<sup>1</sup>, Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Paul M. Thompson (2012). Alzheimer's risk genotypes in the *APOE* and *TOMM40* genes are associated with faster ventricular expansion rates: An N=644 ADNI study, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 593.Julio Villalon, Gautam Prasad, Maria Jalbrzikowski, Carolyn Chow, Paul M. Thompson, and Carrie E. Bearden (2012). **Visual and verbal memory circuitry disruption in 22q11.2DS revealed by DTI tractography**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 594.Derrek P. Hibar, Jason L. Stein, Sarah E. Medland, Neda Jahanshad, Narelle K. Hansell, Katie L. McMahon, Greig I. de Zubicaray, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2012). **Genetic clustering reveals distinct sectors of the human hippocampus with coherent genetic determination, based on MRI scans of 526 twins**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 595.Gautam Prasad, Shantanu Joshi, Neda Jahanshad, Julio Villalon, Katie L. McMahon, Greig I. de Zubicaray, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2012). Genetic contributions to white matter pathways in 565 twins, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 596.Joel Ross<sup>1</sup>, **Paul M. Thompson**<sup>2</sup>, Pierre Tariot<sup>3</sup>, Eric Reiman<sup>3</sup>, Lon S. Schneider<sup>4</sup>, Enrico Frigerio<sup>5</sup>, Francesco Fiorentini<sup>5</sup>, Luciana Giardino<sup>6</sup>, Laura Calzà<sup>6</sup>, Dottie Norris<sup>7</sup>, Helen Cicirello<sup>7</sup>, Daniela Casula<sup>7</sup>, Bruno P. Imbimbo (2012). **Primary and Secondary Prevention Trials in Subjects at Risk of Developing Alzheimer's Disease: the GEPARD-AD (Genetically Enriched Population At Risk of Developing Alzheimer's Disease) Studies**, CTAD conference, Monte Carlo, Monaco, October 29-31, 2012.

#### **International Conference on Frontotemporal Dementias**



597. Grace J. Lee, Po H. Lu, Paul M. Thompson, Mario F. Mendez (2012). **Performance on proverbs test is associated with left anterior temporal volume in patients with behavioral FTD and early-onset Alzheimer's disease.** International Conference on Frontotemporal Dementias, 2012.
598. Grace J. Lee, Po H. Lu, Paul M. Thompson, Mario F. Mendez (2012). **Regional brain differences between behavioral FTD and early-onset Alzheimer's disease.** International Conference on Frontotemporal Dementias, 2012.
599. Eastman JA, Hwang KS, Babakchian S, Chow N, Ramirez L, Thompson PM, Apostolova LG (2012). The Relationship between Cortical Thickness and Verbal Memory, **American Psychological Association Conference, Orange County, 2012.**
600. Eastman JA, Hwang KS, Babakchian S, Chow N, Ramirez L, Thompson PM, Apostolova LG (2012). The Relationship between Cortical Thickness and Verbal Memory, **INS 2012.**
601. Miguel Burgaleta<sup>1,2,3</sup>, Francisco J Román<sup>1</sup>, Kenia Martínez<sup>1</sup>, Jesús Privado<sup>4</sup>, Manuel Froufe<sup>1</sup>, Ilaria Albano<sup>1</sup>, Sergio Escorial<sup>4</sup>, Pei Chun Shih<sup>1</sup>, M. A. Quiroga<sup>4</sup>, Juan Álvarez-Linera<sup>3</sup>, Sherif Karama<sup>5</sup>, Richard Haier<sup>6</sup>, Paul M. Thompson<sup>7</sup>, Susanne Jaeggi<sup>8</sup>, & Roberto Colom (2012). **Adaptive working memory training increases integrity of the corpus callosum, ISIR 2012, San Antonio, TX.**
602. Roberto Colom (1), Francisco J Román (1), Jesús Privado (2), Manuel Froufe (1), Ilaria Albano (1), Sergio Escorial (2), Kenia Martínez (1), Pei Chun Shih (1), Miguel Burgaleta (1,3), M. A. Quiroga (3), Sherif Karama (4), Richard Haier (5), Paul M Thompson (6), & Susanne M Jaeggi (7). **(2012).** Can intelligence be improved by adaptive working memory (n back) training? **ISIR 2012, San Antonio, TX.**
603. Jennifer A. Eastman, Kristy S. Hwang, Andreas Lazaris, Nicole Chow, Leslie M. Ramirez, Sona Babakchian, Ellen Woo, **Paul M. Thompson**, Liana G. Apostolova (2012). 3D Mapping of Semantic Fluency in Clinical and Pre-Clinical Alzheimer's Disease, **INS 2012.**
604. Michela Pievani<sup>1</sup>, Martina Bocchetta<sup>1</sup>, Marina Boccardi<sup>1</sup>, Enrica Cavedo<sup>1</sup>, Matteo Bonetti<sup>2</sup>, **Paul M Thompson**<sup>3</sup>, Giovanni B Frisoni<sup>1</sup> **(2013).** EFFECT OF *APOE* GENOTYPE ON STRIATAL ATROPHY IN EARLY AND LATE ONSET ALZHEIMER'S DISEASE, **AAIC 2013.**

#### **AAN and AAIC 2013**

605. Nicole Chow, Kristy Hwang, **Paul M. Thompson**, Clifford R. Jack Jr, MD, Michael Weiner, and Liana Apostolova (2013). Comparing 3T and 1.5T MRI for Mapping Hippocampal Atrophy in the Alzheimer's Disease Neuroimaging Initiative (ADNI). **AAN 2013.**
606. Enrica Cavedo,<sup>1</sup> MS, Michela Pievani,<sup>1</sup> PhD, Marina Boccardi,<sup>1</sup> PhD, Samantha Galluzzi,<sup>1</sup> MD, Matteo Bonetti,<sup>2</sup> MD, **Paul M. Thompson**,<sup>3</sup> PhD, Giovanni B. Frisoni,<sup>1</sup> MD (2012). **Association between amygdalar shape changes and hippocampal atrophy in early-onset and late-onset Alzheimer's disease, AAIC 2013.**
607. Grace J. Lee, Po H. Lu, Jill Shapira, Michelle Mather, Natalie Kaiser, Elvira Jimenez, Paul M. Thompson, Mario F. Mendez (2013). **Neuroanatomical correlates of emotional blunting in behavioral variant frontotemporal dementia, AAN 2013.**
608. Grace J. Lee, Po H. Lu, Jill Shapira, Michelle Mather, Natalie Kaiser, Elvira Jimenez, Paul M. Thompson, Mario F. Mendez (2013). **Neuroanatomical correlates of symptoms on the Frontal Systems Behavior Scale in frontotemporal dementia and early-onset Alzheimer's disease, AAN 2013.**

609. Kristy S. Hwang, Omid Kohannim, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson**, Liana G. Apostolova, and the Alzheimer's Disease Neuroimaging Initiative (2013). **Automated diagnostic classifiers for mild cognitive impairment and Alzheimer's disease, AAN 2013.**
610. Jennifer A. Eastman, Kristy S. Hwang, Andreas Lazaris, Nicole Chow, Leslie M. Ramirez, Sona Babakchian, Ellen Woo, Paul M. Thompson, Liana G. Apostolova (2013). **The Relationship Between Cortical Thickness and Semantic Fluency, AAN 2013.**
611. Leslie M. Ramirez, Kristy S. Hwang, Jennifer A. Eastman, Sona Babakchian, Renee Sears, Eric Klein, Fuying Gao, Giovanni Coppola, **Paul M. Thompson**, Liana G. Apostolova (2012). Common variants in ABCA7, MS4A6, and PICALM are associated with cortical atrophy. **AAN 2013.**
612. Liana G. Apostolova, Kristy Hwang, Omid Kohannim, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, Paul M. Thompson (2013). Presence of brain amyloidosis can be ascertained from cognitive, imaging and peripheral blood protein measures, **AAN 2013.**
613. Sona Babakchian<sup>1,2</sup>, Nicole Chow<sup>1,2</sup>, Amity E. Green<sup>3</sup>, Johanne H. Somme<sup>4</sup>, Kristy S. Hwang<sup>1,2</sup>, Clifford R. Jack<sup>5</sup>, Paul M. Thompson<sup>1,2</sup>, Liana G. Apostolova (2013). **Automated and Manual Hippocampal Segmentation Techniques: A Comparison and Reproducibility Analysis, AAN 2013.**
614. K.-K. Shen<sup>1</sup>, S. Rose<sup>1</sup>, J. Fripp<sup>1</sup>, K. L. McMahon<sup>2</sup>, G. I. de Zubicaray<sup>3</sup>, N. G. Martin<sup>4</sup>, **P. M. Thompson**<sup>5</sup>, M. J. Wright<sup>4</sup>, O. Salvado (2013). Test-Retest Reliability in Fibre Orientation Distribution (FOD) Measurements in HARDI Data, submitted to **ISMRM 2013.**
615. Peter Kochunov, Charles Peterson, Neda Jahanshad, Thomas E. Nichols, Bennett Landman, Paul M. Thompson, David G. Glahn and John Blangero. **SOLAR-Eclipse computational tools for genetic and mega-genetic analysis, Irvine Imaging Genetics Conference, Jan. 2013.**
616. Theo G.M. van Erp, Derrek P. Hibar, Jerod Rasmussen, Steven G. Potkin, Roel Ophoff, Ole Andreassen, Ingrid Agartz, Stefan Erlich, Unn Haukvik, Oliver Gruber, Lei Wang, **Paul M. Thompson**, Jessica Turner (the ENIGMA-Schizophrenia Working Group) (2013). A Large-Scale Meta-Analysis of Subcortical Brain Volume Abnormalities in Schizophrenia via the ENIGMA Consortium, **Society for Biological Psychiatry (SOBP), 2013.**
- OHBM 2013 (30 abstracts)**
617. Florence F. Roussotte<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Elizabeth R. Sowell<sup>2</sup>, Katie L. McMahon<sup>4</sup>, Greig I. de Zubicaray<sup>5</sup>, Margaret J. Wright<sup>3</sup>, **Paul M. Thompson**<sup>1,6</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). Abnormal brain structure in addiction risk gene carriers: associations with dopamine receptor variants, OHBM, Seattle, WA, June 2013.
618. Jonathan Rosenblatt, Yoav Benjamini, Marina Bogomolov, Jason L. Stein, **Paul M. Thompson** (2013). **vGWAS revisited: A novel and powerful approach to voxelwise genome-wide association studies**, OHBM, Seattle, WA, June 2013.
619. Jessica A. Turner, Derrek P. Hibar, Jerod Rasmussen, Ole Andreassen, Unn K. Haukvik, Ingrid Agartz, Steven G. Potkin, Roel Ophoff, Hilleke Hulshoff-Pol, Neeltje E. M. van Haren, Oliver Gruber, Bernd Krämer, Stefan Erlich, Johanna Hass, Lei Wang, Kathryn Alpert, David C. Glahn, **Paul M. Thompson**, Theo G.M. van Erp for the ENIGMA-Schizophrenia Working Group (2013). **A Prospective Meta-Analysis of Subcortical Brain Volumes in Schizophrenia via the ENIGMA Consortium**, OHBM, Seattle, WA, June 2013.

620. Derrek P. Hibar, Theo G. M. van Erp, Jerod Rasmussen, Jessica A. Turner, Unn K. Haukvik, Ingrid Agartz, Oliver Gruber, Bernd Krämer, Benny Lindberg, Carl Johan Ekman, Mikael Landen, Allison Nugent, Gonzalo Laje, Francis McMahon, Scott Fears, Carrie Bearden, Nelson Freimer, David Glahn, Colm McDonald, Dara Cannon, Mary Phillips, Stephen Strakowski, Caleb Alder, Sophia Frangou, **Paul M. Thompson**, Ole A. Andreassen for the ENIGMA-Bipolar Disorder Working Group (2013). **Meta-analysis of structural brain differences in bipolar disorder: the ENIGMA-Bipolar Disorder Project**, OHBM, Seattle, WA, June 2013.
621. Benjamin S.C. Wade, Shantanu H. Joshi, Arthur W. Toga, **Paul M. Thompson**, Jay N. Giedd (2013). Effect of Supernumerary Chromosome Dosage on Corpus Callosum Morphometry, OHBM, Seattle, WA, June 2013.
622. Derrek P. Hibar, +200 co-authors including **PM Thompson**, for the ENIGMA Consortium (2013). ENIGMA2: Genome-wide scans of subcortical brain volumes in 16,125 subjects from 28 cohorts worldwide, OHBM, Seattle, WA, June 2013.
623. Neda Jahanshad<sup>1#</sup>, Peter K. Kochunov<sup>2#</sup>, Emma Sprooten<sup>3,4</sup>, René C. Mandl<sup>5</sup>, Thomas E. Nichols<sup>6,7</sup>, Laura Almasy<sup>8</sup>, John Blangero<sup>8</sup>, Rachel M. Brouwer<sup>4</sup>, Joanne E. Curran<sup>8</sup>, Greig I. de Zubicaray<sup>9</sup>, Ravi Duggirala<sup>8</sup>, Peter T. Fox<sup>10</sup>, L. Elliot Hong<sup>2</sup>, Bennett A. Landman<sup>11</sup>, Nicholas G. Martin<sup>12</sup>, Katie L. McMahon<sup>13</sup>, Sarah E. Medland<sup>12</sup>, Braxton D. Mitchell<sup>14</sup>, Rene L. Olvera<sup>10</sup>, Charles P. Peterson<sup>8</sup>, John M. Starr<sup>15</sup>, Jessika E. Sussmann<sup>4</sup>, Arthur W. Toga<sup>1</sup>, Joanna M. Wardlaw<sup>15</sup>, Margaret J. Wright<sup>12</sup>, Hilleke E. Hulshoff Pol<sup>5</sup>, Mark E. Bastin<sup>4,15</sup>, Andrew M. McIntosh<sup>4</sup>, Ian J. Deary<sup>15</sup>, Paul M. Thompson<sup>1\*</sup>, and David C. Glahn (2013). **Multi-Site Genetic Analysis of 1151 Diffusion MRI Scans from the ENIGMA-DTI Working Group**, OHBM, Seattle, WA, June 2013.
624. Emily L. Dennis, Neda Jahanshad, Priya Rajagopalan, Arthur W. Toga, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2013). Young adult carriers of a common folate gene variant, *MTHFR* C677T, have altered white matter microstructure, OHBM, Seattle, WA, June 2013.
625. Christopher R. K. Ching, Derrek P. Hibar, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2013). Genetic clustering reveals thalamic regions with common genetic determination in 707 twins, OHBM, Seattle, WA, June 2013.
626. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, **Paul M. Thompson** and the ADNI (2013). Machine Learning for Connectivity-based Alzheimer's Disease Classification, OHBM, Seattle, WA, June 2013.
627. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Brain Connectivity based on Maximum Flow in Alzheimer's Disease, OHBM, Seattle, WA, June 2013.
628. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Refining Brain Connectivity Networks to Optimally Identify Brain Disease, OHBM, Seattle, WA, June 2013.
629. Gautam Prasad, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Fiber Density and Connectivity in Alzheimer's Disease, OHBM, Seattle, WA, June 2013.
630. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (2013). **Altered Brain Network Metrics in Alzheimer's Disease, Based on the Structural *k*-Core**, OHBM, Seattle, WA, June 2013.
631. Julio Villalon-Reina, Liang Zhan, Talia Nir, Kenia Martinez, Kristian Eschenburg, Maria Jalbrzikowski, Caroline Chow, Carrie Bearden, Paul M. Thompson. **Detailed white matter microstructure in 22q11.2 deletion syndrome revealed by the tensor distribution function (TDF)**. OHBM, Seattle, WA, June 2013.

632. Talia M. Nir<sup>a</sup>, Liang Zhan<sup>a</sup>, Julio Villalon<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Alex D. Leow<sup>b</sup>, Clifford R. Jack Jr<sup>c</sup>, Michael W. Weiner<sup>b</sup>, Paul M. Thompson<sup>a</sup>, ADNI (2013). **Tensor Distribution Function Measures Boost Power to Detect White Matter Deficits in Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
633. Liang Zhan<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Yan Jin<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3, 4</sup>, Paul M. Thompson (2013). **BRAIN NETWORK EFFICIENCY COMPARISON USING 11 DIFFERENT FIBER TRACKING ALGORITHMS**, OHBM, Seattle, WA, June 2013.
634. Yan Jin<sup>1</sup>, Yonggang Shi<sup>1</sup>, Liang Zhan<sup>1</sup>, Greig I. de Zubicaray<sup>2</sup>, Katie L. McMahon<sup>2</sup>, Nicholas G. Martin<sup>3</sup>, Margaret J. Wright<sup>3</sup>, Paul M. Thompson<sup>1</sup> (2013). Automated Labeling of White Matter Tracts in HARDI: Tract Heritability in Twins, OHBM, Seattle, WA, June 2013.
635. Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Paul M. Thompson<sup>1,5</sup> for the Alzheimer's Disease Neuroimaging Initiative\* (2013). **Fat hormones, adipokines, correlate with CSF amyloid clearance and brain volumes in Alzheimer's disease**, OHBM, Seattle, WA, June 2013.
636. Daniel Peng<sup>1</sup>, Ryan Kelley<sup>1</sup>, Eve-Marie Quintin<sup>1</sup>, Mira Raman<sup>1</sup>, Paul M. Thompson<sup>4</sup>, Allan L. Reiss<sup>1,2,3</sup> (2013). **Cognitive and Behavioral Correlates of Caudate Subregion Shape Variation in Fragile X Syndrome**, OHBM, Seattle, WA, June 2013.
637. Christina Boyle<sup>1</sup>, Cyrus A. Raji<sup>2</sup>, Kirk I. Erickson<sup>3</sup>, Oscar Lopez<sup>3</sup>, James T. Becker<sup>3</sup>, H. Michael Gach<sup>3</sup>, William T. Longstreth<sup>4</sup>, Leonid Teverovskiy<sup>3</sup>, Lewis Kuller<sup>5</sup>, Owen T. Carmichael<sup>6</sup>, Paul M. Thompson (2013). **Physical Activity is Correlated with Regional Brain Volumes in Normal Aging and Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
638. Nicole Chow, BS, Kristy Hwang, BS, Sona Babakhanian, BS, Amity E. Green, BS, Johanne H. Somme, MD, Paul M. Thompson, PhD, Clifford R. Jack Jr, MD, Michael Weiner, MD, Liana G. Apostolova, MD, MS (2013). Mapping Hippocampal Atrophy in Alzheimer's Disease at 3T and 1.5T MRI, OHBM, Seattle, WA, June 2013.
639. Yalin Wang, Lei Yuan, Jie Shi, Alexander Greve, Jieping Ye, Arthur W. Toga, Allan L. Reiss, and Paul M. Thompson (2013). Adapting Tensor-based Morphometry to Parametric Surfaces Improves MRI-based Disease Classification, OHBM, Seattle, WA, June 2013.
640. Jie Shi, Paul M. Thompson, Boris A. Gutman, Yalin Wang, and the Alzheimer's Disease Neuroimaging Initiative (2013). **Inverse Consistent Surface Fluid Registration Applied to Study ApoE4 Effects on Hippocampal Atrophy**, OHBM, Seattle, WA, June 2013.
641. James H. Cole<sup>1,2</sup>, Christina P. Boyle<sup>3</sup>, Andrew Simmons<sup>4,5</sup>, Sarah Cohen-Woods<sup>1,6</sup>, Margarita Rivera<sup>1,7</sup>, Peter McGuffin<sup>1</sup>, Paul M. Thompson<sup>3,8</sup>, Cynthia H. Y. Fu (2013). **Body Mass Index, but not FTO genotype, influences brain structure in Major Depressive Disorder**, OHBM, Seattle, WA, June 2013.
642. Xue Hua, Christina P. Boyle, Jaroslaw Harezlak, David Tate, Constantin Yiannoutsos, Ron Cohen, Giovanni Schifitto, Michael Taylor, Thomas Campbell, Eric Daar, Jeffry R. Alger, Elyse Singer, Bradford Navia, Paul M. Thompson and the HIV Neuroimaging Consortium (2013). **Brain metabolite disruptions linked to structural deficits in HIV patients on stable treatment**, OHBM, Seattle, WA, June 2013.
643. Priya Rajagopalan<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Xue Hua<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, Paul M. Thompson<sup>1,5</sup> and the Alzheimer's Disease Neuroimaging Initiative (2013). **Carriers of TREM2 Alzheimer risk gene show accelerated temporal lobe atrophy and cognitive decline**, OHBM, Seattle, WA, June 2013.

- 644.B. Sinclair, G. Blokland, **P. Thompson**, M. Wright, G. de Zubicaray, K. McMahon (2013). Genetic and Environmental Influences on Effective Connectivity in Working Memory Networks, OHBM, Seattle, WA, June 2013.
- 645.Neda Jahanshad<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Greig I. de Zubicaray<sup>9</sup>, Katie L. McMahon<sup>13</sup>, Nicholas G. Martin<sup>12</sup>, Margaret J. Wright<sup>12</sup>, Paul M. Thompson (2013). **Tract-wise Genetic Correlation of MRI Intracranial Volume and DTI Anisotropy**, OHBM, Seattle, WA, June 2013.
- 646.Boris A. Gutman<sup>1</sup>, Xue Hua PhD<sup>1</sup>, Arthur W. Toga PhD<sup>1</sup>, **Paul M. Thompson PhD<sup>1,8</sup>** for the Alzheimer's Disease Neuroimaging Initiative\* (2012). **Spatially regularized discriminant analysis boosts biomarker power in Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
- 647.Peter Kochunov, Neda Jahanshad, Charles Peterson, Bennett Landman, Thomas Nichols, **Paul M. Thompson**, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, David Glahn, John Blangero (2013) SOLAR-Eclipse computational tools for imaging genetic and mega-genetic analysis. OHBM, Seattle, WA, June 2013.
- 648.Kristian Eschenburg<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Anand A. Joshi<sup>3</sup>, Kevin Terashima<sup>2</sup>, Michael Jones<sup>2</sup>, Stella de Bode<sup>2</sup>, Susan Y. Bookheimer<sup>2</sup>, Noriko Salamon, **Paul M. Thompson** (2013). A Feasibility Study Analyzing Brain Connectivity in 5 Hemispherectomized Children, OHBM, Seattle, WA, June 2013.
- 649.DC Dean III, BA Jerskey, K Chen, H Protas, P Thiyyagura, A Roontiva, J O'Muircheartaigh, H Dirks, N Waskiewicz, K Lehman, AL Siniard, MN Turk, X Hua, SK Madsen, **PM Thompson**, AS Fleisher<sup>3,7,10</sup>, MJ Huentelman<sup>7,11</sup>, SCL Deoni, and EM Reiman (2013). Brain Alterations in Infants at Genetic Risk for Late-Onset Alzheimer's Disease, submitted to the **American Academy of Neurology (AAN)** 2013.
- 650.**Florence F Roussotte, Ph.D.; Neda Jahanshad, Ph.D.; Derrek P Hibar, B.S.; Elizabeth R Sowell, Ph.D.; Katie L McMahon, Ph.D.; Greig I de Zubicaray, Ph.D.; Margie J Wright, Ph.D.; Paul M Thompson, Ph.D.** (2013). A single nucleotide polymorphism associated with alcohol intake in the *RASGRF2* gene predicts similar patterns of regional brain volumes in young and elderly subjects (n = 1,316). Pacific Rim Conference on the Imaging Genetics of Aging, Turtle Bay, HI, April 2013.
- 651.Jessica Turner<sup>1, 2</sup>, Derrek Hibar<sup>3</sup>, Jerod Rasmussen<sup>4</sup>, Ole Andreassen<sup>5</sup>, Unn Kristin Haukvik<sup>5</sup>, Ingrid Agartz<sup>5</sup>, Steven G. Potkin<sup>4</sup>, Roel Ophoff<sup>3</sup>, Hilleke Hulshoff Pol<sup>6</sup>, Neeltje van Haren<sup>6</sup>, Oliver Gruber<sup>7</sup>, Bernd Krämer<sup>7</sup>, Stefan Ehrlich<sup>8</sup>, Johanna Hass<sup>8</sup>, Kathryn Alpert<sup>9</sup>, Lei Wang<sup>9</sup>, Godfrey D. Pearlson<sup>10, 11</sup>, David Glahn<sup>10, 11</sup>, Paul Thompson<sup>12</sup>, Theo G. van Erp<sup>4</sup> (2013). A Prospective Meta-Analysis of Brain Measures in Schizophrenia via the ENIGMA Consortium. ICOSR 2013.

#### **AAIC 2013 (10 abstracts)**

- 652.Kelvin K Leung<sup>1,2</sup>, Casper Nielsen<sup>1</sup>, Shona Clegg<sup>1</sup>, Ian Malone<sup>1</sup>, Jennifer Nicholas<sup>3</sup>, David M Cash<sup>1,2</sup>, Sebastien Ourselin<sup>1,2</sup>, **Paul M Thompson<sup>4</sup>**, Cliff R Jack<sup>5</sup>, Michael W Weiner<sup>6,7,8</sup>, Nick C Fox<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2013). Comparison of accelerated and non-accelerated MRI in ADNI: effects on measures of brain and ventricular volumes and rates of atrophy, AAIC meeting, 2013.
- 653.Kelvin K Leung<sup>1</sup>, Felix Woodward<sup>1</sup>, Paul M Thompson<sup>2</sup>, Nick C Fox<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative (2013). Effects of changing from non-accelerated to accelerated MRI in brain atrophy measurement, AAIC Conference, 2013.

- 654.Sona Babakchanian<sup>1, 2</sup>, Johanne Somme<sup>3</sup>, Hedieh Honarpisheh<sup>4</sup>, Kristy Hwang<sup>1, 2</sup>, Kristina Biado<sup>5</sup>, Spencer Tung<sup>5</sup>, Andrew Frew<sup>6</sup>, Jeffrey R. Alger<sup>1</sup>, Jonathan Wisco<sup>5</sup>, Stephen P. Schettler<sup>5</sup>, Chris Zarow<sup>7</sup>, Harry V. Vinters<sup>5</sup>, Paul M. Thompson<sup>1, 2, 8</sup>, Liana G. Apostolova<sup>1, 2</sup> (2013). **7-Tesla Hippocampal Maps Predict Neuronal Counts and Amyloid Burden, AAIC 2013.**
- 655.Meredith N. Braskie, Christina P. Boyle, Priya Rajagopalan, Boris A. Gutman, Arthur W. Toga, Cyrus A. Raji, Lewis H. Kuller, James T. Becker, Oscar L. Lopez, Paul M. Thompson (2013). **Exercise, TNF $\alpha$ , and volume of the aging brain, AAIC 2013.**
- 656.Jasmeer P Chhatwal, MD PhD<sup>1,2\*</sup>, Aaron P Schultz PhD<sup>1,2\*</sup>, Keith Johnson MD<sup>1,2,3</sup>, Tammie LS Benzinger MD PhD<sup>4,5</sup>, Clifford R Jack, Jr. MD<sup>6</sup>, Beau M Ances MD PhD<sup>5,7</sup>, Caroline A Sullivan BA<sup>1,2</sup>, Stephen P Salloway MD MS<sup>8</sup>, John M Ringman MD MS<sup>9</sup>, Robert A Koeppe PhD<sup>10</sup>, Daniel S Marcus PhD<sup>4,5</sup>, Paul M Thompson PhD<sup>9</sup>, Andrew J Saykin PsyD<sup>11</sup>, Stephen Correia PhD<sup>12</sup>, Peter R Schofield PhD<sup>13</sup>, Christopher C Rowe MD<sup>14</sup>, Nick C Fox MD<sup>15</sup>, Adam M Brickman PhD<sup>16</sup>, Richard Mayeux MD MS<sup>16</sup>, Eric McDade DO<sup>17</sup>, Randall Bateman MD<sup>7</sup>, Anne M Fagan PhD<sup>7</sup>, Allison M Goate DPhil<sup>18,19</sup>, Chengjie Xiong PhD<sup>20</sup>, Virginia D Buckles PhD<sup>7</sup>, John C Morris MD<sup>7</sup>, Reisa A Sperling MD MMsc<sup>1,2,21</sup> (2013). **Disrupted functional connectivity in autosomal dominant AD demonstrates network specificity and precedes structural changes: Findings from DIAN, AAIC 2013.**
- 657.Li Shen, Paul M. Thompson, Steven G. Potkin, David J. Stone, Sungeun Kim, Kwangsik Nho, Vijay K. Ramanan, Robert C. Green, Tatiana Foroud, Lindsay Farrer, Jason H. Moore, Lars Bertram, Michael W. Weiner, Andrew J. Saykin, for the Alzheimer's Disease Neuroimaging Initiative (2013). **A Review of Published Genetic Studies using ADNI Multimodality Quantitative Phenotypes: MRI, PET Fluid Biomarkers, Cognition, and Clinical Status, AAIC 2013.**
- 658.Liana G. Apostolova, Kristy S. Hwang, Leslie M. Ramirez, Renee Sears, Eric Klein, Fuying Gao, Steve Horvath, Paul M. Thompson, Jeffrey L. Cummings, Giovanni Coppola (2013). **A gene co-expression module in peripheral blood correlates with hippocampal atrophy in elderly subjects, AAIC 2013.**
- 659.T. Blazey, C. Jack, J. Ringman, A. Brickman, M. Raichle, R. Hornbeck, A. Saykin, S. Salloway, E. McDade, M. Rosser, N. Fox, P. Thompson, S. Correia, C. Rowe, M. Weiner, R. Mayeux, B. Ghetti, R. Sperling, K. Johnson, P. Schofield, C. Masters, R. Martins, P. Aisen, R. Bateman, N. Cairns, A. Goate, D. Marcus, A. Fagan, C. Xiong, V. Buckles, K. Moulder, J.C. Morris, T.L.S. Benzinger, for the DIAN Study Group (2013). **Prevalence and Growth of Cerebral Microhemorrhages in Autosomal Alzheimer's Disease, AAIC 2013.**
- 660.Kinnunen KM<sup>1</sup>, Ryan NS<sup>1</sup>, Cash DM<sup>1</sup>, Bastos-Leite A<sup>2</sup>, Finnegan S<sup>3</sup>, Cardoso MJ<sup>1</sup>, Leung KK<sup>1</sup>, Modat M<sup>1</sup>, Benzinger TLS<sup>4</sup>, Jack Jr. CR<sup>5</sup>, Raichle M<sup>4</sup>, Marcus D<sup>4</sup>, Ringman J<sup>6</sup>, **Thompson PM**<sup>6</sup>, Ghetti BF<sup>7</sup>, Salloway S<sup>8</sup>, Sperling R<sup>9</sup>, Schofield P<sup>10</sup>, Masters CL<sup>11</sup>, Martins R<sup>12</sup>, Mayeux R<sup>13</sup>, Weiner M<sup>14</sup>, Bateman R<sup>4</sup>, Fagan A<sup>4</sup>, Goate A<sup>4</sup>, Buckles V<sup>4</sup>, Morris JC<sup>4</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> for the DIAN study group (2013). Are early atrophy patterns gene-dependent in autosomal dominant familial Alzheimer's disease? AAIC 2013.
- 661.Cash DM<sup>1</sup>, Ridgway GR<sup>1</sup>, Modat M<sup>1</sup>, Ryan NS<sup>1</sup>, Kinnunen KM<sup>1</sup>, Cardoso MJ<sup>1</sup>, Benzinger TLS<sup>2</sup>, Jack Jr. CR<sup>3</sup>, Raichle M<sup>2</sup>, Marcus D<sup>2</sup>, Ringman J<sup>4</sup>, **Thompson PM**<sup>4</sup>, Ghetti BF<sup>5</sup>, Salloway S<sup>6</sup>, Sperling R<sup>7</sup>, Schofield P<sup>8</sup>, Masters CL<sup>9</sup>, Martins R<sup>10</sup>, Mayeux R<sup>11</sup>, Weiner M<sup>12</sup>, Bateman R<sup>2</sup>, Fagan A<sup>2</sup>, Goate A<sup>2</sup>, Buckles V<sup>2</sup>, Moulder K<sup>2</sup>, Morris JC<sup>2</sup>, Rossor MN<sup>1</sup>, Ourselin S<sup>1</sup>, Fox NC<sup>1</sup> for the DIAN study group (2013). Dissociating volume and intensity changes in Familial Alzheimer's Disease, AAIC 2013.
- 662.Martin Tesli<sup>1,2(\*\*)</sup> and Randi Egeland<sup>3(\*\*)</sup>, Ida S nderby<sup>4</sup>, Unn Haukvik<sup>1,6</sup>, Francesco Bettella<sup>1</sup>, Derrek Hibar<sup>7</sup>, Paul M. Thompson, Lars Morten Rimol<sup>1,6</sup>, Ingrid Melle<sup>1,2</sup>, Ingrid Agartz<sup>1,5,6</sup>, Srdjan Djurovic<sup>1,2,4</sup>, and Ole A. Andreassen<sup>1,2</sup> (2013). **Bipolar disorder risk gene variants and brain structural phenotypes**, Danish Psychiatric Association, Annual Congress of 2013 (Dansk Psykiatrisk Selskabs  rsm de) Nyborg, Norway,

March 9-10 2013.

663. *C Raji, MD, PhD, Los Angeles, CA; C Boyle, BS; O Lopez, MD; J T Becker, PhD; W T Longstreth, MD; H Gach, PhD; Paul Thompson (2013). Estrogen Use and Brain Structure in a Community Cohort of Elderly Women, RSNA 2013, submitted.*
664. **Paul Thompson, for the ENIGMA Consortium (2013). The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions, ACNP 2013, Dec. 2013; in the session ‘Multidimensional data integration and causality: A systems approach for unraveling the molecular architecture of mental disorders’, Hollywood, FL.**
665. *Cyrus A. Raji, MD, PhD; Christina Boyle, B.S.; Kirk Erickson, PhD; Oscar Lopez, MD; James T. Becker, PhD; William T. Longstreth, MD; H. Michael Gach, PhD; Lewis Kuller, MD, DrPH; Paul Thompson, PhD (2013). ACNP 2013, Dec. 2013.*

**SFN 2013 (13 abstracts)**

666. *Emily L. Dennis<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Nicholus M. Warstadt<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Omid Kohanim<sup>1</sup>, Talia Nir<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Grant Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Arthur W. Toga<sup>5</sup>, Margaret J. Wright<sup>3,4</sup>, Paul M. Thompson (2013). Obesity Gene *NEGR1* Associates with White Matter Integrity Differently in Young and Old Adults, Society for Neuroscience (SFN) 2013, San Diego.*
667. **Florence F. Roussotte, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, Paul M. Thompson for the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (2013). A single-nucleotide polymorphism (SNP) in the dopamine transporter gene, *DAT1*, is associated with increased risk for Alzheimer’s disease and cognitive impairment in the elderly. Society for Neuroscience (SFN) 2013, San Diego.**
668. *Talia M Nir<sup>1</sup>, Julio E Villalon-Reina<sup>1</sup>, Liang Zhan<sup>1</sup>, Gautam Prasad<sup>1</sup>, Shantanu H Joshi<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Alex D. Leow<sup>2</sup>, Paul M. Thompson (2013). Tensor distribution function measures along tractography-based maximum density paths increase Alzheimer’s disease classification accuracy, Society for Neuroscience (SFN) 2013, San Diego.*
669. *Cassandra D. Leonardo<sup>1</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Assawin Gongvatana<sup>2</sup>, Bradford Navia<sup>3,4</sup>, Ronald Cohen, Paul Thompson (2013). Brain network connectivity disruptions in HIV/AIDS, Society for Neuroscience (SFN) 2013, San Diego.*
670. *Liang Zhan<sup>1</sup>, Yalin Wang<sup>2</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Yan Jin<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson<sup>1</sup> for the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (2013). Highways and Traffic: Modeling Anatomical Network Breakdown in Alzheimer’s disease, Society for Neuroscience (SFN) 2013, San Diego.*
671. *Neda Jahanshad<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, and Paul M. Thompson<sup>1</sup> (2013). Common genetic influences on fiber integrity and regional brain volumes discovered by genetic correlation of MRI and DTI, Society for Neuroscience (SFN) 2013, San Diego.*
672. *Priya Rajagopalan<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael W. Weiner<sup>3, 4</sup>, Paul M. Thompson (2013). Plasma adipokines correlate with brain volumes in the elderly: An Alzheimer’s Disease Neuroimaging Initiative (ADNI) study, Society for Neuroscience (SFN) 2013, San Diego.*
673. *G. K. Reynolds<sup>1</sup>, T. M. Nir<sup>1</sup>, A. W. Toga<sup>1</sup>, Clifford R. Jack Jr<sup>2</sup>, Michael W. Weiner<sup>3</sup>, P. M. Thompson<sup>1</sup>, for the Alzheimer’s Disease Neuroimaging Initiative (2013). How does Alzheimer’s Disease disrupt local white matter*

microstructure in the brain? **Society for Neuroscience (SFN) 2013, San Diego.**

674. Nicholas M. Warstadt<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Arthur W. Toga<sup>8</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Grant Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margie J. Wright<sup>3,4</sup>, Paul M. Thompson (2013). Cholesterol-Associated Gene *CETP* Associations with White Matter Integrity in Young and Older Cohorts, **Society for Neuroscience (SFN) 2013, San Diego.**

675. Meredith N Braskie<sup>1</sup>, Omid Kohannim<sup>1</sup>, Neda Jahanshad<sup>1,2</sup>, Arthur W Toga<sup>1</sup>, Grant W Montgomery<sup>5</sup>, Katie L McMahon<sup>3</sup>, Greig I de Zubicaray<sup>4</sup>, Nicholas G Martin<sup>5</sup>, Margaret J Wright<sup>5</sup>, Paul M Thompson (2013). Mitochondrial genetic variants and white matter integrity in young adults, **Society for Neuroscience (SFN) 2013, San Diego.**

676. Madelaine Daianu<sup>1</sup>, Emily Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3,4</sup>, Paul M. Thompson<sup>1\*</sup> for the Alzheimer's Disease Neuroimaging Initiative (2013). **Sex Differences in Brain Connectivity in Normal Aging and Alzheimer's Disease, Society for Neuroscience (SFN) 2013, San Diego.**

677. Madsen SK, Priya Rajagopalan M.P.H.<sup>a</sup>, Shantanu H. Joshi Ph.D.<sup>a</sup>, Arthur W. Toga Ph.D.<sup>a</sup>, Thompson PM (2013). Elevated homocysteine is associated with thinner cortical gray matter in 803 elderly subjects, **Society for Neuroscience (SFN) 2013, San Diego.**

678. Yan Jin<sup>a,b</sup>, Yonggang Shi<sup>b</sup>, Liang Zhan<sup>a,b</sup>, Arthur W. Toga<sup>a,b</sup>, Greig I. de Zubicaray<sup>c</sup>, Katie L. McMahon<sup>c</sup>, Nicholas G. Martin<sup>d</sup>, Margaret J. Wright<sup>d</sup>, and Paul M. Thompson (2013). **Mapping genetic influences on white matter fiber tracts reveals 3D profile of heritability, Society for Neuroscience (SFN) 2013, San Diego.**

679. G. Prasad, I. Aganj, and P.M. Thompson. Synthesizing connectivity networks to improve classification of Alzheimer's disease. In Proceedings of the Society for Neuroscience, San Diego, CA, 2013.

### CTAD 2013

680. Sophie Sokolow, PhD<sup>1,2</sup>, Kristy S Hwang<sup>3,4</sup>, BS, Edmond Teng<sup>3,5</sup>, MD, PhD, Paul M. Thompson<sup>3,4,6</sup>, Clifford R. Jack, Jr.<sup>7</sup>, Leslie M. Shaw<sup>8</sup>, John Q. Trojanowski<sup>8</sup>, Holly D. Soares<sup>9</sup>, Michael W. Weiner<sup>10,11</sup> and Liana G. Apostolova, MD (2013). **Plasma biomarkers associated with the apolipoprotein E (APOE) genotype and Amyloid-beta imaging, CTAD 2013.**

### CROI 2014

681. Prasitsuebsai W<sup>1</sup>, Jahanshad N<sup>2</sup>, Valcour V<sup>3</sup>, Puthanakit T<sup>1,4</sup>, Linda Aurlpibul<sup>5</sup>, Sukalaya Lerdlum<sup>6</sup>, Pannee Visrutaratna<sup>7</sup>, Ananworanich J<sup>1, 8, 9</sup>, Thompson P<sup>3</sup> on behalf of the PREDICT Study Group (2014). **Brain Morphometry and Diffusion Tensor Imaging in HIV-exposed compared to unexposed Thai Children, submitted to CROI, Boston, MA, USA, 2014.**

682. Cassandra D. Leonardo<sup>1</sup>, Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1,2</sup>, Assawin Gongvatana<sup>2,5, 3</sup>, Bradford Navia<sup>4,5</sup>, Ronald Cohen<sup>3,6</sup>, and Paul M. Thompson<sup>1,2</sup> (2014). Disruptions in brain network connectivity associated with HIV/AIDS, **submitted to CROI, Boston, MA, USA, 2014.**

### SOBP 2014

683. Matthew D. Sacchet<sup>1,2</sup>, Gautam Prasad<sup>2,3</sup>, Lara C. Foland-Ross<sup>2</sup>, Shantanu H. Joshi<sup>4</sup>, J. Paul Hamilton<sup>5</sup>, Paul M. Thompson<sup>3</sup>, Ian H. Gotlib (2014). Automated Characterization of White Matter Connectivity in Major Depressive Disorder, **SOBP 2014.**



684. Matthew D. Sacchet<sup>1,2</sup>, Gautam Prasad<sup>2,3</sup>, Lara C. Foland-Ross<sup>2</sup>, **Paul M. Thompson**<sup>3</sup>, Ian H. Gotlib (2014). Support Vector Machines Can Identify Brain Network Anomalies in Major Depression, **SOBP 2014**.

685. Glahn D, Frangou S, **Thompson PM**, Garavan H (2014). Large-Scale Psychiatric Imaging Studies: Lesson Learned and Future Directions, **SOBP 2014**.

686. Lara C. Foland-Ross,<sup>1,2\*</sup> Matthew D. Sacchet,<sup>1,3</sup> Gautam Prasad,<sup>1</sup> Brooke Gilbert,<sup>3</sup> Paul Thompson, and<sup>1,2</sup> Ian H. Gotlib (2014). **Neurodevelopmental Trajectories in Youth at Risk for Major Depression**, SOBP 2014.

#### **ISMRM 2014**

687. Iman Aganj, Gautam Prasad, Priti Srinivasan, Anastasia Yendiki, **Paul Thompson**, Bruce Fischl (2014). Structural Brain Network Augmentation via Kirchhoff's Laws, ISMRM 2014.

688. L. Zhan<sup>1</sup>, A. Carpenter<sup>2</sup>, Y. Duchin<sup>3</sup>, N. Harel<sup>3</sup>, G. Sapiro<sup>4</sup>, P.M. Thompson<sup>1</sup>, C. Lenglet (2014). **Brain network efficiency deficits in multiple sclerosis: A pilot network analysis using 7-Tesla diffusion MRI**, ISMRM 2014.

689. **Anand A. Joshi, Syed Ashrafulla, David W. Shattuck, Katie L McMahon, Narelle K Hansell, Nicholas G Martin, Margaret J Wright, Paul M Thompson, Hanna Damasio and Richard M. Leahy (2014)**. Automated Brain Shape Analysis using the Anisotropic Global Point Signature, ISMRM 2014.

690. K.-K. Shen<sup>1</sup>, S. Rose<sup>1</sup>, J. Fripp<sup>1</sup>, K. L. McMahon<sup>2</sup>, G. I. de Zubicaray<sup>3</sup>, N. G. Martin<sup>4</sup>, P. M. Thompson<sup>5</sup>, M. J. Wright<sup>4</sup>, O. Salvado (2014). **HERITABILITY OF WHITE MATTER (WM) FIBRES BASED ON FIBRE ORIENTATION DISTRIBUTION (FOD) MEASUREMENTS ON HARDI DATA**, ISMRM 2014.

#### **HAI 2014 (Human Amyloid Imaging Conference 2014)**

691. Jasmeer P Chhatwal, MD PhD, Aaron P Schultz PhD, Keith Johnson MD, Tammie LS Benzinger MD PhD, Clifford Jack, Jr. MD, Beau M Ances MD PhD, Caroline A Sullivan BA, Stephen P Salloway MD MS, John M Ringman MD MS, Robert A Koeppe PhD, Daniel S Marcus PhD, **Paul Thompson PhD**, Andrew J Saykin PsyD, Stephen Correia PhD, Peter R Schofield PhD, Christopher C Rowe MD, Nick C Fox MD, Adam M Brickman PhD, Richard Mayeux MD MS, Eric McDade DO, Randall Bateman MD, Anne M Fagan PhD, Allison M Goate DPhil, Chengjie Xiong PhD, Virginia D Buckles PhD, John C Morris MD, Reisa A Sperling MD MMsc (2014). **Differential Temporal Patterns of Amyloid- $\beta$  and Functional Imaging Markers Across Mutation Types in Autosomal Dominant Alzheimer's Disease: Findings from the DIAN Study**, HAI 2014.

#### **IIGC (Imaging Genetics Conference, 2014)**

692. Mary Ellen Koran, Bo Li, Neda Jahanshad, Tricia A. Thornton-Wells, David C. Glahn, **Paul M. Thompson**, John Blangero, Thomas E. Nichols, Peter Kochunov, Bennett A. Landman (2014). Neuroimaging Genetics Study Design: A Comparison of the OpenMX and SOLAR Software Packages for Estimating Heritability of Neuroimaging Traits, IIGC Conference, Irvine, CA, Jan. 2014.

693. Neda Jahanshad<sup>1,2#</sup>, Peter Kochunov<sup>3#</sup>, Thomas E. Nichols<sup>4,5</sup>, Emma Sprooten<sup>6</sup>, René C. Mandl<sup>7</sup>, Laura Almasy<sup>8</sup>, Rachel M. Brouwer<sup>7</sup>, Joanne E. Curran<sup>8</sup>, Greig I. de Zubicaray<sup>10</sup>, Rali Dimitrova<sup>11</sup>, Peter T. Fox<sup>12</sup>, L. Elliot Hong<sup>3</sup>, Bennett A. Landman<sup>13</sup>, Hervé Lemaitre<sup>14</sup>, Nicholas G. Martin<sup>16</sup>, Katie L. McMahon<sup>17</sup>, Braxton D. Mitchell<sup>18</sup>, Rene L. Olvera<sup>19</sup>, Charles P. Peterson<sup>8</sup>, Jessika E. Sussmann<sup>21</sup>, Arthur W. Toga<sup>1</sup>, Joanna M. Wardlaw<sup>13</sup>, Margaret J. Wright<sup>14</sup>, Susan N. Wright<sup>3</sup>, Mark E. Bastin<sup>13,18</sup>, Andrew M. McIntosh<sup>21</sup>, René S. Kahn<sup>7</sup>, Ian J. Deary<sup>9</sup>, Hilleke E. Hulshoff Pol<sup>7</sup>, Douglas Williamson<sup>19</sup>, John Blangero<sup>8</sup>, Dennis van 't Ent<sup>22</sup>, David C. Glahn<sup>6</sup>, **Paul M.**

**Thompson** (2013). Joint modeling of multi-site white matter heritability estimates through meta and mega analyses, IIGC Conference, Irvine, CA, Jan. 2014.

#### **OHBM 2014**

694. Nicholas M. Warstadt<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Cassandra D. Leonardo<sup>1</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Matt A. Bernstein<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, and Paul M. Thompson<sup>1,6†</sup> for the Alzheimer's Disease Neuroimaging Initiative (ADNI)\* **Geriatric Depression and White Matter Integrity in Alzheimer's Disease Patients. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
695. Christina Boyle<sup>1</sup>, Cyrus A. Raji<sup>2</sup>, Kirk I. Erickson<sup>3</sup>, Oscar Lopez<sup>3</sup>, James T. Becker<sup>3</sup>, H. Michael Gach<sup>3</sup>, William T. Longstreth<sup>4</sup>, Leonid Teverovskiy<sup>3</sup>, Lewis Kuller<sup>5</sup>, Owen T. Carmichael<sup>6</sup>, Paul M. Thompson<sup>1</sup> **Estrogen Use, Brain Volume and Cognitive Function in a Cohort of Elderly Women. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
696. Cassandra D. Leonardo<sup>a</sup>, Talia M. Nir<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Arthur W. Toga<sup>a</sup>, Clifford R. Jack<sup>b</sup>, Michael W. Weiner<sup>c</sup>, Paul M. Thompson<sup>a,d</sup> and the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Longitudinal Diffusion Tensor Imaging reveals association between changes in fiber integrity and cognitive measures. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
697. Boris A. Gutman, Neda Jahanshad, Derrek Hibar, Cassandra Leonardo, Julio Villalon, Kristian Eschenberg, Talia Nir, Paul M. Thompson. **Continuous Connectomics: An Exploratory Framework for Connectivity Analysis in Brain Imaging. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
698. Neda Jahanshad<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>4</sup>, Alex W. Hewitt<sup>5</sup>, David A. Mackey<sup>5,6,7</sup>, Paul M. Thompson<sup>1,8</sup> **Widespread white matter associations with optic disc parameters. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
699. K. Eschenberg, J. Villalon-Reina, J. Ross, P. Thompson, T. Simon. **Integrity of the Structural Connectome in Turner Syndrome. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
700. Wade B.<sup>1</sup>, Joshi S.H.<sup>2</sup>, Pirnia T.<sup>2</sup>, Leaver A.M.<sup>2</sup>, Woods R.P.<sup>2,3</sup>, Thompson P.M.<sup>1</sup>, Espinoza R.<sup>3</sup>, Narr K.L.<sup>2,3</sup> **Effect of Electroconvulsive Therapy on Striatal Volumes in Major Depressive Disorder. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
701. Daniel A. Rinker, Derrek P. Hibar, Neda Jahanshad, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, the ADNI, Paul M. Thompson. **Multiple sclerosis risk gene associations with white matter integrity at 4 Tesla. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
702. Emily L. Dennis<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Grant Montgomery<sup>4</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>3,4</sup>, Paul M. Thompson<sup>1</sup> **Gene-based Test of MACROD2 Reveals Associations with White Matter Integrity in Healthy Young Adults. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
703. Yan Jin<sup>a</sup>, Yonggang Shi<sup>b</sup>, Liang Zhan<sup>a,b</sup>, Talia M. Nir<sup>a,b</sup>, Arthur W. Toga<sup>b</sup>, and Paul M. Thompson. **Automated Multi-atlas Labeling of the Fornix Applied to Track Alzheimer's Disease. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
704. Madelaine Daianu<sup>1,2</sup>, Neda Jahanshad<sup>1,2</sup>, Cassandra Leonardo<sup>2</sup>, Julio E. Villalon-Reina<sup>2</sup>, Elvira Jimenez<sup>1</sup>, Mario F. Mendez<sup>1,3</sup>, Aditi Joshi<sup>1</sup>, Paul M. Thompson. **Diffusion Tensor Connectivity Measures Detect White Matter**

- Changes in Frontotemporal Dementia and Alzheimer's Disease. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
705. Xue Hua<sup>1,2</sup>, Derrek P. Hibar<sup>1,2</sup>, Omid Kohannim<sup>1,4</sup>, Neda Jahanshad<sup>1,2</sup>, Paul M. Thompson<sup>1,2,3</sup> and the Alzheimer's Disease Neuroimaging Initiative. **Alzheimer's Disease Amyloid Pathology Susceptibility Genes Predict Brain Atrophy over 24 Months. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
706. Julio Villalon-Reina<sup>1</sup>, Kristian Eschenburg<sup>1</sup>, Maria Jalbrzikowski<sup>2</sup>, Leila Kushan<sup>2</sup>, Talia Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Paul Thompson<sup>1</sup>, Tony Simon<sup>3</sup>, Carrie Bearden. **STRUCTURAL SMALL WORLDNESS IS ALTERED IN 22q11.2 DELETION SYNDROME: VALIDATION USING TWO DATASETS. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
707. Emily L. Dennis<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Claudia Kernan<sup>2</sup>, Talin Babikian<sup>2</sup>, Christopher Giza<sup>3</sup>, Robert Asarnow<sup>2</sup>, Paul M. Thompson. **Decreased Integrity of the Corpus Callosum Following Traumatic Brain Injury in Pediatric Patients. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
708. Omid Kohannim<sup>1,2</sup>, Xue Hua<sup>1,3</sup>, Paul M. Thompson<sup>1,3,4</sup> and the Alzheimer's Disease Neuroimaging Initiative. **Boosting Alzheimer's Clinical Trial Power with an Updated, Unbiased Tensor-Based Morphometry Approach. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
709. Jessica Turner<sup>1,2</sup>, Theo van Erp<sup>3</sup>, Derrek Hibar<sup>4</sup>, Paul Thompson<sup>5</sup>, and the ENIGMA Schizophrenia Working Group (full author list at <http://enigma.ini.usc.edu/>). **Subcortical and cortical variations in schizophrenia: the ENIGMA SZ Working Group. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
710. Talia M. Nir<sup>1</sup>, Kristina A. Uban<sup>2</sup>, Megan M. Herting<sup>2</sup>, Ram Yoge<sup>3</sup>, Paige L. Williams<sup>4</sup>, Kathleen M. Malee<sup>5</sup>, John G. Csenansky<sup>5</sup>, Lei Wang<sup>5</sup>, Sharon Nichols<sup>6</sup>, Yanling Huo<sup>4</sup>, Neda Jahanshad<sup>1</sup>, Paul M Thompson<sup>1</sup>, Elizabeth R. Sowell<sup>2,7</sup>, for the Pediatric HIV/AIDS Cohort Study. **Altered Structural White Matter Networks in Youth with Perinatally Acquired HIV. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
711. Derrek Hibar<sup>1</sup>, Lars Westlye<sup>2</sup>, Paul Thompson<sup>1</sup>, Ole Andreassen<sup>2</sup>, and the ENIGMA Bipolar Disorder Working Group (full author list at <http://enigma.ini.usc.edu/>). **ENIGMA Bipolar disorder working group findings from 1,747 cases and 2,615 controls. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
712. Christopher R. K. Ching, Derrek P. Hibar, Neda Jahanshad, Xue Hua, Paul M. Thompson for the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Oxidative stress regulating gene *GPXI* associated with regional brain volumes in the elderly (N=740). OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
713. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Martin Reuter<sup>3</sup>, Eric S. Darr<sup>4</sup>, Thomas B. Campbell<sup>5</sup>, Giovanni Schifitto<sup>6</sup>, Elyse Singer<sup>7</sup>, Ron Cohen<sup>8</sup>, Xue Hua<sup>1</sup>, David F. Tate, Bradford A. Navia<sup>9</sup>, Paul M. Thompson<sup>1</sup> **Comparison of Subcortical Morphometry in Alzheimer's Disease and HIV + Subjects. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
714. Neda Jahanshad<sup>1#</sup>, Peter Kochunov<sup>3#</sup>, Thomas E Nichols<sup>4,5</sup>, Emma Sprooten<sup>6</sup>, René C Mandl<sup>7</sup>, Laura Almas<sup>8</sup>, Rachel M Brouwer<sup>7</sup>, Joanne E Curran<sup>8</sup>, Greig I de Zubicaray<sup>10</sup>, Rali Dimitrova<sup>11</sup>, Peter T Fox<sup>12</sup>, L Elliot Hong<sup>3</sup>, Bennett A Landman<sup>13</sup>, Hervé Lemaitre<sup>14</sup>, Michelle Luciano<sup>9,15</sup>, Nicholas G Martin<sup>16</sup>, Katie L McMahon<sup>17</sup>, Braxton D Mitchell<sup>18</sup>, Rene L Olvera<sup>19</sup>, Charles P Peterson<sup>8</sup>, Jessika E Sussmann<sup>11</sup>, Arthur W Toga<sup>1</sup>, Joanna M Wardlaw<sup>9,15</sup>, Margaret J Wright<sup>16</sup>, Susan N Wright<sup>3</sup>, Mark E Bastin<sup>9,15</sup>, Andrew M McIntosh<sup>11</sup>, Dorret I Boomsma<sup>20</sup>, René S Kahn<sup>7</sup>, Anouk den Braber<sup>20</sup>, Eco JC de Geus<sup>20</sup>, Ian J Deary<sup>9</sup>, Douglas Williamson<sup>19</sup>, John Blangero<sup>8</sup>, Hilleke E Hulshoff Pol<sup>7</sup>, Dennis van 't Ent<sup>20</sup>, David C Glahn<sup>6</sup>, Paul M Thompson<sup>1,2</sup> **Using meta and mega analyses to find regional heritability estimates from 2203 scans - from the ENIGMA-DTI working group. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**

715. Madelaine Daianu<sup>1,2</sup>, Neda Jahanshad<sup>2</sup>, Kristian M. Eschenburg<sup>2</sup>, Julio Villalon-Reina<sup>2</sup>, Talia M. Nir<sup>2</sup>, Hongwei Dong<sup>2</sup>, Russell Jacobs<sup>3</sup>, Berislav V. Zlokovic<sup>4</sup>, Paul M. Thompson<sup>1, 2, 5</sup> **Mapping Brain Connectivity with Diffusion Tensor Imaging in Human Tau Mutant Mice. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
716. Liang Zhan, Bryon A. Mueller, Christophe Lenglet, Essa Yacoub, Guillermo Sapiro, Noam Harel, Kelvin O. Lim, Paul M. Thompson. **Brain Network denoising using Principal Component Analysis. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
717. Liang Zhan<sup>1, 2</sup>, Adam Carpenter<sup>3</sup>, Yuval Duchin<sup>4</sup>, Noam Harel<sup>4</sup>, Guillermo Sapiro<sup>5</sup>, Paul M Thompson<sup>1, 2</sup>, Christophe Lenglet<sup>4</sup> **A pilot investigation of brain networks in multiple sclerosis using 7-Tesla diffusion MRI. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
718. Sarah K Madsen, Teena D Moody, Alex Zai, Paul M Thompson, Jamie D Feusner. **Generalized psychophysiological interaction for body image processing compared in related disorders. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
719. Neda Jahanshad<sup>1</sup>, Wasana Prasitsuebsai<sup>2</sup>, Victor G. Valcour<sup>3</sup>, Thanyawee Puthanakit<sup>1,4</sup>, Akash Desai<sup>3</sup>, Talia M. Nir<sup>1</sup>, Stephanie Catella<sup>3</sup>, Marie-Claude Couture<sup>3</sup>, Stephen J. Kerr<sup>2, 5</sup>, Linda Aurpibul<sup>6</sup>, Pope Kosalaraksa<sup>7</sup>, Rawiwan Hansudewechakul<sup>8</sup>, Suparat Kanjanavanit<sup>9</sup>, Chaiwat Ngampiyaskul<sup>10</sup>, Jurai Wongsawat<sup>11</sup>, Wicharn Luesomboon<sup>12</sup>, Kanchana Pruksakaew<sup>2</sup>, Mantana Pothisri<sup>13</sup>, Kattiya Ratanadilok<sup>14</sup>, Sukalaya Lerdlum<sup>13</sup>, Pannee Visrutaratna<sup>15</sup>, Jintanat Ananworanich<sup>1,16</sup>, Paul M. Thompson<sup>1</sup>, on behalf of the SEARCH 012 and PREDICT Study Groups. **MRI and DTI reveal no differences between brain structures of HIV-exposed and unexposed HIV-negative children. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
720. Meredith N. Braskie<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Kristian Eschenburg<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Lachlan Strike<sup>2</sup>, Grant W. Montgomery<sup>2</sup>, Katie L. McMahon<sup>3</sup>, Greig I. de Zubicaray<sup>4</sup>, Nicholas G. Martin<sup>2</sup>, Margaret J. Wright<sup>2</sup>, Paul M. Thompson **Young adults with Alzheimer's disease risk gene CLU-C have lower default mode network synchronicity. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
721. Emily L. Dennis<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Kristian Eschenburg<sup>1</sup>, Arthur W. Toga<sup>1</sup>, Lachlan Strike, Katie L. McMahon<sup>2</sup>, Greig I. de Zubicaray<sup>3</sup>, Nicholas G. Martin<sup>4</sup>, Margaret J. Wright<sup>3,4</sup>, Paul M. Thompson<sup>1,5</sup> **Sex Differences in Functional Connectivity of the Executive Control Network. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
722. Sarah Madsen<sup>1</sup>, Boris Gutman<sup>2</sup>, Priya Rajagopalan<sup>2</sup>, Arthur Toga<sup>2</sup>, Paul Thompson<sup>2</sup>, The ADNI. **Cortisol is associated with thinner cortical gray matter in 512 elderly ADNI participants. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
723. Sarah K. Madsen Letty Liang Christina P Boyle Priya Rajagopalan Anne R Cappola James T Becker Oscar L Lopez Paul M. Thompson **Thyroid Hormones are related to Brain Structure Six Years Later in 437 Euthyroid Elderly. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
724. Matthew D Sacchet<sup>1\*</sup>, Lara C Foland-Ross<sup>1\*</sup>, Gautam Prasad<sup>1,2</sup>, Brooke Gilbert<sup>1</sup>, Paul M Thompson<sup>2</sup>, Ian H Gotlib<sup>1</sup> **Using Structural Neuroimaging to Predict the Onset of Major Depression in Adolescence.**
725. Matthew D Sacchet<sup>1</sup>, Gautam Prasad<sup>1,2</sup>, Lara C Foland-Ross<sup>1</sup>, Paul M Thompson<sup>2</sup>, Ian H Gotlib<sup>1</sup> **Characterizing abnormal brain networks in Major Depressive Disorder using Machine Learning. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**

726. Matthew D Sacchet<sup>1</sup>, Gautam Prasad<sup>1,2</sup>, Lara C Foland-Ross<sup>1</sup>, Shantanu H Joshi<sup>3</sup>, J Paul Hamilton<sup>4</sup>, Paul M Thompson<sup>2</sup>, Ian H Gotlib<sup>1</sup> **Automated Identification of Abnormal Fiber Tracts in Major Depressive Disorder. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
727. Derrek Hibar, Neda Jahanshad, Cassandra Leonardo, Neeltje van Haren, Roel Ophoff, Jessica Turner, Theo van Erp, Katie McMahon, Greig de Zubicaray, Nicholas Martin, Sarah Medland, Margaret Wright, Paul Thompson. **Cortical thickness reliability measures evaluated with standardized protocols, the ENIGMA Consortium. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
728. Kochunov, Jahanshad, Sprooten, Williams, Goldman, Greig I. de Zubicaray, Katie L. McMahon, Nicholas G. Martin, Margaret J. Wright, Thompson and Glahn. **Genetic distance within human populations and cerebral white matter microstructure: An Enigma-DTI study. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
729. Florence F. Roussotte, Boris A. Gutman, Derrek P. Hibar, Neda Jahanshad, Sarah K. Madsen, Paul M. Thompson, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) **A RASGRF2 variant predicts larger cortical volumes but faster ventricular expansion in the elderly. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
730. Florence F. Roussotte, Boris A. Gutman, Sarah K. Madsen, Katherine L. Narr, Paul M. Thompson, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) **A dopamine transporter variant predicts dementia risk, cognitive decline, and ventricular expansion. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
731. Florence F. Roussotte, Boris A. Gutman, Sarah K. Madsen, John B. Colby, Paul M. Thompson, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) **CLU genetic variant affects ventricular expansion and surface morphology in the elderly. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
732. Florence F. Roussotte, Boris A. Gutman, Sarah K. Madsen, John B. Colby, Katherine L. Narr, Paul M. Thompson, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) **ApoE-ε4 is associated with ventricular expansion and surface morphology in dementia and normal aging. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
733. Gautam Prasad<sup>1,2</sup>, Josh Burkart<sup>4</sup>, Matthew D. Sacchet<sup>1,3</sup>, Lara C. Foland-Ross<sup>1</sup>, Paul M. Thompson<sup>2</sup>, and Ian H. Gotlib<sup>1,3</sup> **Understanding Major Depression Using Dynamic Models based on N-Body Simulations.**
734. Gautam Prasad<sup>1,2</sup>, Matthew D. Sacchet<sup>1,3</sup>, Lara C. Foland-Ross<sup>1</sup>, Paul M. Thompson<sup>2</sup>, and Ian H. Gotlib<sup>1,3</sup> **Classifying Major Depression Using Brain Connectivity with Augmented Data from Alzheimer's Disease. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
735. Gautam Prasad<sup>1,2</sup>, Matthew D. Sacchet<sup>1,3</sup>, Lara C. Foland-Ross<sup>1</sup>, Ian H. Gotlib<sup>1,3</sup>, and Paul M. Thompson<sup>2</sup> **Optimizing Brain Connectivity Classification of Major Depression Using EPIC. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
736. Gautam Prasad<sup>1,2</sup>, Shantanu H. Joshi<sup>3</sup>, and Paul M. Thompson. **Improved Brain Connectivity Disease Classification by Iteratively Reorganizing Models. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
737. Pamela Douglas<sup>1</sup>, Boris Gutman<sup>2</sup>, Paul Thompson<sup>2</sup>, Mark Cohen (2014). **Relevance of Caudate Symmetry in Classifying ADHD. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
738. Alex Leow, MD, PhD; Liang Zhan, PhD; Teena Moody, PhD; Jesse Brown, PhD; Paul Thompson, PhD; Jamie Feusner, MD. **Constructing task connectome using functional-by-structural mapping and stochastic graph analysis. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**

739. Peter Kochunov, Neda Jahanshad, Charles Peterson, Emma Sprooten, René C Mandl, Susan N. Wright, Thomas E. Nichols, Rachel M Brouwer, Joanne E Curran, Bennett Landman, Hervé Lemaitre, Colin A. Hodgkinson, David Goldman, Douglas Williamson, Ahmad Hariri, Elliot Hong, Elliot Stein, Jessika E Sussmann, Joanna M Wardlaw, Yihong Yang, Katie L. McMahon, Greig I. de Zubicaray, Lorna Lopez, Andrew M McIntosh, Ian J Deary, Hilleke E Hulshoff Pol, Nicholas G. Martin, Paul M. Thompson, Margaret J. Wright, David G. Glahn and John Blangero. **Replication of genetic associations for white matter in 2250 children and adults using Mega-Genetic Analysis and ENIGMA-DTI. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
740. Martine Hoogman, Maarten Mennes and Marcel Zwiers and the ENIGMA ADHD working group (full author list at <http://enigma.ini.usc.edu/>). **Brain structure and ADHD across the life span: an ENIGMA collaboration. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
741. Cyrus Raji, MD, PhD, Los Angeles, CA; W Dai, PhD; O Lopez, MD; H Gach, PhD; L H Kuller, MD; P Thompson, PhD; et al. (2014). **Application of a Support Vector Machine Learning Classification Method towards the Accurate Identification of Alzheimer's Dementia, RSNA 2014, submitted.**
742. Emily L. Dennis<sup>1</sup>, Yan Jin<sup>1</sup>, Julio E. Villalon<sup>1</sup>, Claudia L. Kernan<sup>2</sup>, Richard B. Mink<sup>3</sup>, Talin Babikian<sup>2</sup>, Christopher C. Giza<sup>4</sup>, Robert F. Asarnow<sup>2</sup>, **Paul M. Thompson** (2014). Tract-based Analysis of Callosal Disruption in Moderate/Severe Pediatric Traumatic Brain Injury, National Neurotrauma Conference, 2014.

#### **SFN 2014 (16 abstracts)**

743. B. FRANKE<sup>1</sup>, M. HOOGMAN<sup>2</sup>, M. ZWIERS<sup>2</sup>, M. MENNES<sup>2</sup>, For the Enigma-ADHD Working Group (2014). Brain structure in ADHD across the life span: the ENIGMA ADHD working group, submitted to the Society for Neuroscience (SFN) 2014.
744. Derrek P. Hibar, Lars T. Westlye, Theo G. M. van Erp, Jerod Rasmussen, Cassandra D. Leonardo, Unn K. Haukvik, Cecilie Bhandari Hartberg, Ingrid Agartz, Anders M. Dale, Oliver Gruber, Bernd Krämer, Sarah Trost, Benny Liberg, Carl Johan Ekman, Martin Ingvar, Mikael Landén, Scott C. Fears, Nelson B. Freimer, Carrie E. Bearden, and the Costa Rica/Colombia Consortium for Genetic Investigation of Bipolar Endophenotypes, David C. Glahn, Godfrey D. Pearlson, Louise Emsell, Joanne Kenney, Cathy Scanlon, Colm McDonald, Dara M. Cannon, Jorge Almeida, Amelia Versace, Xavier Caseras, Natalia S. Lawrence, Mary L. Phillips, Danai Dima, Giuseppe Delvecchio, Sophia Frangou, Theodore Satterthwaite, Daniel Wolf, Josselin Houenou, Chantal Henry, Ulrik F. Malt, Erlend Bøen, Torbjørn Elvsåshagen, Allan Young, Adrian J. Lloyd, Guy M. Goodwin, Clare E. Mackay, Corin Bourne, Amy Bilderbeck, Lucija Abramovic, Marco P. Boks, Neeltje E. M. van Haren, Roel Ophoff, René Kahn, Michael Bauer, Andrea Pfennig, Martin Alda, Tomas Hajek, Benson Mwangi, Jair C. Soares, Rali Dimitrova, Jess E. Sussmann, Saskia Hagenaars, Heather C. Whalley, Andrew M. McIntosh, Paul M. Thompson, Ole A. Andreassen for the ENIGMA Bipolar Disorder Working Group (2014). **ENIGMA Bipolar disorder working group findings from 1,745 cases and 2,613 controls**, submitted to the Society for Neuroscience (SFN) 2014.
745. Theo G. M. van Erp<sup>1\*</sup>, Derrek P. Hibar<sup>2\*</sup>, Jerod M. Rasmussen<sup>1</sup>, David C. Glahn<sup>3,4</sup>, Godfrey D. Pearlson<sup>3,4</sup>, Ole A. Andreassen<sup>5</sup>, Ingrid Agartz<sup>5,6,36</sup>, Lars T. Westlye<sup>5,7</sup>, Unn K. Haukvik<sup>5</sup>, Anders M. Dale<sup>8,9</sup>, Cecilie B. Hartberg<sup>5,6</sup>, Oliver Gruber<sup>10</sup>, Bernd Kraemer<sup>10</sup>, David Zilles<sup>10,11</sup>, Gary Donohoe<sup>12,13</sup>, Sinead Kelly<sup>13</sup>, Colm McDonald<sup>14</sup>, Derek W. Morris<sup>12,13</sup>, Dara M. Cannon<sup>14</sup>, Aiden Corvin<sup>13</sup>, Marise W. J. Machielsen<sup>15</sup>, Laura Koenders<sup>15</sup>, Lieuwe de Haan<sup>15</sup>, Dick J. Veltman<sup>16</sup>, Theodore D. Satterthwaite<sup>17</sup>, Daniel H. Wolf<sup>17</sup>, Ruben C. Gur<sup>17</sup>, Raquel E. Gur<sup>17</sup>, Steven G. Potkin<sup>1</sup>, Daniel H. Mathalon<sup>18,19</sup>, Bryon A. Mueller<sup>20</sup>, Adrian Preda<sup>1</sup>, Fabio Macciardi<sup>1</sup>, Stefan Ehrlich<sup>21,22,23</sup>, Esther Walton<sup>21</sup>, Johanna Hass<sup>21</sup>, Vince D. Calhoun<sup>24,25</sup>, Henry J. Bockholt<sup>24,26,27</sup>, Scott R. Sponheim<sup>28</sup>, Jody M. Shoemaker<sup>24</sup>, Neeltje E. M. van Haren<sup>29</sup>, Hilleke E. Hulshoff Pol<sup>29</sup>, Roel A. Ophoff<sup>29,30</sup>, René S. Kahn<sup>29</sup>, Roberto Roiz-Santiañez<sup>31,32</sup>, Benedicto Crespo-Facorro<sup>31,32</sup>, Lei Wang<sup>33,34</sup>,

- Kathryn I. Alpert<sup>33</sup>, Erik G. Jönsson<sup>35</sup>, Rali Dimitrova<sup>36</sup>, Catherine Bois<sup>36</sup>, Heather C. Whalley<sup>36</sup>, Andrew M. McIntosh<sup>36</sup>, Stephen M. Lawrie<sup>36</sup>, Ryota Hashimoto<sup>37</sup>, Paul M. Thompson<sup>2\*</sup>, and Jessica Turner<sup>24,38\*</sup> for the ENIGMA – Schizophrenia Working Group (2014). ENIGMA Schizophrenia Working Group Findings from 2,028 Cases and 2,540 Controls, submitted to the Society for Neuroscience (SFN) 2014.
746. ENIGMA-DTI working group (2014). **Study of candidate gene effects on white matter microstructure in 4000+ individuals - from the ENIGMA-DTI working group**, Society for Neuroscience (SFN) 2014.
747. L. SCHMAAL<sup>1,2</sup>, D. J. VELTMAN<sup>2</sup>, D. P. HIBAR<sup>3</sup>, ;. FOR THE ENIGMA-MDD WORKING GROUP (2014). Subcortical brain volume abnormalities in major depressive disorder: prospective meta-analytic findings from the ENIGMA major depressive disorder working group, submitted to the Society for Neuroscience (SFN) 2014.
748. Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Russell Jacobs<sup>2</sup>, Berislav V. Zlokovic<sup>3</sup>, Axel Montagne<sup>3</sup>, Paul M. Thompson (2014). Diffusion tensor imaging detects widespread white matter alterations in pericyte-deficient mice, submitted to the Society for Neuroscience (SFN) 2014.
749. Liang Zhan<sup>1,2</sup>, Neda Jahanshad<sup>2</sup>, Emma Sprooten<sup>3,4</sup>, Yan Jin<sup>2</sup>, John Blangero<sup>5</sup>, Reese McKay<sup>3,4</sup>, David Glahn<sup>3,4</sup>, Paul M. Thompson (2014). Normalization effects on brain networks derived from different tractography methods for ENIGMA, submitted to the Society for Neuroscience (SFN) 2014.
750. Christopher R. K. Ching, Derrek P. Hibar, Neda Jahanshad, Nicholus Warstadt, Benson Mwangi, Jair Soares, Paul M. Thompson (2014). **Bipolar disorder: differences between clinical subtypes and medication effects on subcortical volumes associated with emotional and reward processing**, submitted to the Society for Neuroscience (SFN) 2014.
751. Cassandra D. Leonardo<sup>a</sup>, Talia M. Nir<sup>a</sup>, Neda Jahanshad<sup>a</sup>, Kristian M. Eschenburg<sup>a</sup>, Clifford R. Jack<sup>b</sup>, Michael W. Weiner<sup>c</sup>, Paul M. Thompson<sup>a,d,h</sup>, and the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Increased rate of white matter integrity loss in Alzheimer's disease patients: a one-year follow up study from the Alzheimer's Disease Neuroimaging Initiative**, submitted to the Society for Neuroscience (SFN) 2014.
752. Brandalyn Riedel, Sarah K. Madsen, Paul M. Thompson, Roberta Diaz Brinton (2014). Screening for Alzheimer's: *Identifying at-risk individuals by applying clustering techniques to plasma measures*, submitted to the Society for Neuroscience (SFN) 2014.
753. Emily L. Dennis<sup>1</sup>, Yan Jin<sup>1</sup>, Julio E. Villalon<sup>1</sup>, Claudia L. Kernan<sup>2</sup>, Richard Mink<sup>3</sup>, Talin Babikian<sup>2</sup>, Christopher C. Giza<sup>4</sup>, Robert Asarnow<sup>2</sup>, Paul M. Thompson<sup>1,2</sup> (2014). Tract-based Analysis of White Matter Disruption in Moderate/Severe Pediatric Traumatic Brain Injury, submitted to the Society for Neuroscience (SFN) 2014.
754. Rinker, D. A.; Fennema-Notestine, C; Panizzon, M.; Fiecas, M; Chen, C.H.; Dale, A.M.; Thompson, P.M.; Kremen, W.S. (2014). White-matter integrity and cognitive flexibility in normal aging, submitted to the Society for Neuroscience (SFN) 2014.
755. **Florence F. Roussotte\***, Boris A. Gutman, Derrek P. Hibar, Sarah K. Madsen, Paul M. Thompson for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2014). Alzheimer's disease risk variant in *TREM2* affects ventricular expansion patterns in dementia and normal aging, Society for Neuroscience (SFN) 2014.
756. Benjamin S.C. Wade<sup>1</sup>, Shantanu H. Joshi<sup>2</sup>, Martin Reuter<sup>3</sup>, Eric S. Darr<sup>4</sup>, Thomas B. Campbell<sup>5</sup>, Giovanni Schifitto<sup>6</sup>, Elyse Singer<sup>7</sup>, Ron Cohen<sup>8</sup>, Xue Hua<sup>1</sup>, David F. Tate, Bradford A. Navia<sup>9</sup>, Paul M. Thompson<sup>1</sup> **Comparison of Subcortical Morphometry in Alzheimer's Disease and HIV + Subjects**. Society for Neuroscience (SFN) 2014.

757. Gautam Prasad<sup>1</sup>, Shantanu H. Joshi<sup>3</sup>, and Paul M. Thompson (2014). Capturing Brain Connectivity in Alzheimer's disease by evolving the human connectome, Society for Neuroscience (SFN) 2014.
758. Talia M. Nir<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Victor G. Valcour<sup>2</sup>, Akash Desai<sup>2</sup>, Stephanie Catella<sup>2</sup>, Paul M Thompson, on behalf of the SEARCH 012 and PREDICT Study Groups: Wasana Prasitsuebsai<sup>2</sup>, Thanyawee Puthanakit<sup>1,4</sup>, Stephen J. Kerr<sup>2, 5</sup>, Linda Aurpibul<sup>6</sup>, Pope Kosalaraksa<sup>7</sup>, Rawiwan Hansudeweckakul<sup>8</sup>, Suparat Kanjanavanit<sup>9</sup>, Chaiwat Ngampiyaskul<sup>10</sup>, Jurai Wongsawat<sup>11</sup>, Wicharn Luesomboon<sup>12</sup>, Kanchana Pruksakaew<sup>2</sup>, Mantana Pothisri<sup>13</sup>, Kattiya Ratanadilok<sup>14</sup>, Sukalaya Lerdlum<sup>13</sup>, Pannee Visrutaratna<sup>15</sup>, Jintanat Ananworanich<sup>1,16</sup> (2014). **Altered structural white matter in children with perinatally acquired HIV**, Society for Neuroscience (SFN) 2014.
759. Christopher D. Whelan<sup>1</sup>, Derrek P. Hibar<sup>2</sup>, Jason L. Stein<sup>2</sup>, Douglas Speed<sup>3</sup>, The ILAE Consortium on Genetics of Complex Epilepsies, Sanjay M. Sisodiya<sup>3</sup>, Mike Johnson<sup>3</sup>, Erin Heinzen<sup>4</sup>, David Goldstein<sup>4</sup>, Norman Delanty<sup>1,5</sup>, Sarah E. Medland<sup>6</sup>, Barbara Franke<sup>7</sup>, Paul M. Thompson<sup>2</sup>, Gianpiero Cavalleri (2014). Investigating polygenic contributions of common hippocampal variants to epilepsy predisposition, ASHG, June 2014.
760. Daianu M, Jimenez E, Thompson PM, Mendez MF (2014). Disrupted Neural Networks may influence the Pathophysiology of Frontotemporal Dementia, ICFTD Conference, 2014.
761. Lindberg O, Erik S, Jimmy L, Thompson P, Blennow K, Nägga K, Hansson O (2014). **Cognitively normal subjects with low  $\beta$ -amyloid levels in cerebral spinal fluid have faster age-related hippocampal atrophy**, ADPD Conference, 2014.
- CNS 2015 (11 abstracts)**
762. Joshua Faskowitz, Christopher Ching, Jair C. Soares, Paul M. Thompson, Neda Jahanshad (2015). **Brain White Matter Integrity in Bipolar Disorder Subtypes assessed with Diffusion Tensor Imaging**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
763. Talia M. Nir<sup>1</sup>, Jean-Paul Fouché<sup>2</sup>, Victor G. Valcour<sup>3</sup>, Cecilia M. Shikuma<sup>4</sup>, Kalpana J. Kallianpur<sup>4</sup>, Jintanat Ananworanich<sup>5</sup>, Jaroslaw Harezlak<sup>6</sup>, Giovanni Schifitto<sup>7</sup>, Neda Jahanshad<sup>1</sup>, Bradford A. Navia<sup>8</sup>, Dan J. Stein<sup>2</sup>, Ronald A. Cohen (2015). CD4 counts predict brain white matter integrity in people living with HIV: A meta-analysis by the ENIGMA HIV working group, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
764. Madelaine Daianu<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4,5</sup>, Matthew A. Bernstein<sup>3</sup>, Paul M. Thompson<sup>1,2</sup> and the Alzheimer's Disease Neuroimaging Initiative (2015). Spectral Graph Theory Shows Brain Network Disconnection in *APOE-4* Risk Gene Carriers, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
765. Dan Rinker, Talia M. Nir, Neda Jahanshad, Derrek P. Hibar, The ADNI, Artemis Zavaliangos-Petropulu, Paul M. Thompson (2015). Cognitive flexibility, white matter and healthy aging: A DTI study of 231 participants. CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
766. Derrek P. Hibar, Christopher R. K. Ching, Benson Mwangi, Jair C. Soares, Paul M. Thompson (2015). **Cortical Thinning in Bipolar Disorder Subtypes**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.



767. Christopher R. K. Ching, Derrek P. Hibar, Benson Mwangi, Jair C. Soares, Paul M. Thompson (2015). **Bipolar disorder: Analysis of subcortical structures involved in emotional and reward processing and the effects of widely prescribed medications**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
768. Christina P. Boyle<sup>1</sup>, Cyrus A. Raji<sup>1,2</sup>, Kirk I. Erickson<sup>3</sup>, Oscar L. Lopez<sup>4</sup>, James T. Becker<sup>3,4,5</sup>, H. Michael Gach<sup>6</sup>, W. T. Longstreth<sup>7</sup>, Mikhail Popov<sup>5</sup>, Lewis Kuller<sup>8</sup>, Owen T. Carmichael<sup>9</sup>, Paul M. Thompson (2015). **Use of Conjugated Estrogen, Premarin, May Preserve Brain Structure**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
769. Benjamin S.C. Wade<sup>1</sup>, Victor G. Valcour<sup>2</sup>, Edgar Busovaca<sup>3</sup>, Pardis Esmaeili-Firidouni<sup>3</sup>, Shantanu H. Joshi<sup>4</sup>, Yalin Wang<sup>5</sup>, Paul M. Thompson (2015). **Mapping Abnormal Subcortical Brain Morphometry in an Elderly HIV+ Cohort**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
770. VG Baboyan, EL Dennis, Y Jin, L Zhan, T Babikian, CC Giza, R Asarnow, PM Thompson (2015). **An Analysis of Temporal Lobe Projection Fibers in Traumatic Brain Injury**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
771. Adam Mezher<sup>1</sup>, Madelaine Daianu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Talia M. Nir<sup>1</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Matthew Bernstein<sup>2</sup>, Paul M. Thompson (2015). **Lateralization of the executive function in the asymmetric Alzheimer's disease connectome**, March 28-31, 2015, San Francisco, CA, USA.
772. Sarah K. Madsen<sup>1</sup>, Greg Ver Steeg<sup>2</sup>, Adam Mezher<sup>1</sup>, Neda Neda Jahanshad<sup>1</sup>, Talia N. Nir<sup>1</sup>, Xue Hua<sup>1</sup>, Boris A. Gutman<sup>1</sup>, Aram Galstyan<sup>2</sup>, Paul M. Thompson (2015). **Predicting Cognitive Decline in the Elderly From 500+ Heterogeneous Biomarkers Using Machine Learning**, March 28-31, 2015, San Francisco, CA, USA.

#### SOBP 2015 (10 abstracts)

773. Derrek P. Hibar, Lars T. Westlye, Nhat Trung Doan, Neda Jahanshad, Christopher R.K. Ching, Esther Walton, Unn K. Haukvik, Cecilie Bhandari Hartberg, Ingrid Agartz, Anders M. Dale, Oliver Gruber, Bernd Krämer, Sarah Trost, Benny Liberg, Carl Johan Ekman, Martin Ingvar, Mikael Landén, Scott C. Fears, Nelson B. Freimer, Carrie E. Bearden, and the Costa Rica/Colombia Consortium for Genetic Investigation of Bipolar Endophenotypes, David C. Glahn, Godfrey D. Pearlson, Louise Emsell, Joanne Kenney, Cathy Scanlon, Colm McDonald, Dara M. Cannon, Jorge Almeida, Amelia Versace, Xavier Caseras, Natalia S. Lawrence, Mary L. Phillips, Danai Dima, Giuseppe Delvecchio, Sophia Frangou, Theodore Satterthwaite, Daniel Wolf, Josselin Houenou, Chantal Henry, Ulrik F. Malt, Erlend Bøen, Torbjørn Elvsåshagen, Allan H. Young, Adrian J. Lloyd, Guy M. Goodwin, Clare E. Mackay, Corin Bourne, Amy Bilderbeck, Lucija Abramovic, Marco P. Boks, Neeltje E. M. van Haren, Roel Ophoff, René Kahn, Michael Bauer, Andrea Pfennig, Martin Alda, Tomas Hajek, Benson Mwangi, Jair C. Soares, Thomas Nickson, Rali Dimitrova, Jess E. Sussmann, Saskia Hagenaars, Heather C. Whalley, Andrew M. McIntosh, **Paul M. Thompson**, Ole A. Andreassen for the ENIGMA Bipolar Disorder Working Group (2015). **Cortical thickness and surface area differences in bipolar disorder subtypes**, SOBP 2015, Toronto. **Authors abbreviated for submission, to: Derrek P. Hibar<sup>1</sup>, Nhat Trung Doan<sup>2</sup>, Neda Jahanshad<sup>1</sup>, Lars T. Westlye<sup>2</sup>, Paul M. Thompson<sup>1</sup>, Ole A. Andreassen<sup>2</sup>, the ENIGMA Bipolar Disorder Working Group.**
774. **Lianne Schmaal<sup>1</sup>**, Dick J. Veltman<sup>1</sup>, Theo G.M. van Erp<sup>2</sup>, Philipp G. Sämann<sup>3</sup>, Thomas Frodl<sup>4,5</sup>, Neda Jahanshad<sup>6</sup>, Elizabeth Loehrer<sup>7</sup>, Henning Tiemeier<sup>7,8</sup>, Albert Hofman<sup>7</sup>, Wiro J. Niessen<sup>9,10</sup>, Meike W. Vernooij<sup>7,9</sup>, M. Arfan Ikram<sup>7,9,11</sup>, Katharina Wittfeld<sup>12</sup>, Hans J. Grabe<sup>12,13,14</sup>, Andrea Block<sup>13</sup>, Katrin Hegenscheid<sup>15</sup>, Henry Völzke<sup>16</sup>, David Hoehn<sup>3</sup>, Michael Czisch<sup>3</sup>, Jim Lagopoulos<sup>17</sup>, Sean N. Hatton<sup>17</sup>, Ian B. Hickie<sup>17</sup>, Roberto Goya-Maldonado<sup>18</sup>, Bernd Krämer<sup>18</sup>, Oliver Gruber<sup>18</sup>, Baptiste Couvy-Duchesne<sup>19,20,21</sup>, Miguel E. Rentería<sup>19</sup>, Lachlan T. Strike<sup>19</sup>, Natalie T. Mills<sup>19,22</sup>, Greig I. de Zubicaray<sup>20</sup>, Katie L. McMahon<sup>21</sup>, Sarah E. Medland<sup>19</sup>, Nicholas G. Martin<sup>19</sup>, Nathan A. Gillespie<sup>23</sup>, Margaret J. Wright<sup>19</sup>, Geoffrey B. Hall<sup>24,25</sup>, Glenda M. MacQueen<sup>26</sup>, Eva Maria

- Frey<sup>4</sup>, Angela Carballedo<sup>27</sup>, Laura S. van Velzen<sup>1</sup>, Marie Jose van Tol<sup>28</sup>, Nic J. van der Wee<sup>29,30</sup>, Ilya M. Veer<sup>31</sup>, Henrik Walter<sup>31</sup>, Knut Schnell<sup>32</sup>, Elisabeth Schramm<sup>33,34</sup>, Claus Normann<sup>33</sup>, Dieter Schoepf<sup>35</sup>, Carsten Konrad<sup>36</sup>, Bartosz Zurowski<sup>37</sup>, Thomas Nickson<sup>38</sup>, Andrew M. McIntosh<sup>38,39</sup>, Martina Pappmeyer<sup>38,40</sup>, Heather C. Whalley<sup>38</sup>, Jessika E. Sussmann<sup>38</sup>, Beata R. Godlewska<sup>41</sup>, Philip J. Cowen<sup>41</sup>, Felix H. Fischer<sup>42,43</sup>, Matthias Rose<sup>42,44</sup>, Brenda W.J.H. Penninx<sup>1</sup>, Paul M. Thompson<sup>6</sup>, and Derrek P. Hibar<sup>6</sup> for the ENIGMA-Major Depressive Disorder Working Group (2015). **Subcortical Brain Alterations in Major Depressive Disorder: findings from the ENIGMA Major Depressive Disorder Working Group, SOBP 2015, Toronto. Authors abbreviated for submission, to:** Lianne Schmaal<sup>1</sup>, Dick J. Veltman<sup>1</sup>, Theo G. M. van Erp<sup>2</sup>, Brenda W. J. H. Penninx<sup>1</sup>, Paul M. Thompson<sup>3</sup>, Derrek P. Hibar<sup>3</sup>, for the ENIGMA Major Depressive Disorder Working Group.
775. Theo G. M. van Erp<sup>1\*</sup>, Derrek P. Hibar<sup>2\*</sup>, Jerod M. Rasmussen<sup>1</sup>, David C. Glahn<sup>3,4</sup>, Godfrey D. Pearlson<sup>3,4</sup>, Ole A. Andreassen<sup>5</sup>, Ingrid Agartz<sup>5,6,35</sup>, Lars T. Westlye<sup>5,7</sup>, Unn K. Haukvik<sup>5</sup>, Anders M. Dale<sup>8,9</sup>, Ingrid Melle<sup>5</sup>, Cecilie B. Hartberg<sup>5,6</sup>, Oliver Gruber<sup>10</sup>, Bernd Kraemer<sup>10</sup>, David Zilles<sup>10,11</sup>, Gary Donohoe<sup>12,13</sup>, Sinead Kelly<sup>13</sup>, Colm McDonald<sup>14</sup>, Derek W. Morris<sup>12,13</sup>, Dara M. Cannon<sup>14</sup>, Aiden Corvin<sup>13</sup>, Marise W. J. Machielsen<sup>15</sup>, Laura Koenders<sup>15</sup>, Lieuwe de Haan<sup>15</sup>, Dick J. Veltman<sup>16</sup>, Theodore D. Satterthwaite<sup>17</sup>, Daniel H. Wolf<sup>17</sup>, Ruben C. Gur<sup>17</sup>, Raquel E. Gur<sup>17</sup>, Steven G. Potkin<sup>1</sup>, Daniel H. Mathalon<sup>18,19</sup>, Bryon A. Mueller<sup>20</sup>, Adrian Preda<sup>1</sup>, Fabio Macciardi<sup>1</sup>, Stefan Ehrlich<sup>21,22,23</sup>, Esther Walton<sup>21</sup>, Johanna Hass<sup>21</sup>, Vince D. Calhoun<sup>24,25</sup>, Henry J. Bockholt<sup>24,26,27</sup>, Scott R. Sponheim<sup>28</sup>, Jody M. Shoemaker<sup>24</sup>, Neeltje E. M. van Haren<sup>29</sup>, Hilleke E. Hulshoff Pol<sup>29</sup>, Roel A. Ophoff<sup>29,30</sup>, René S. Kahn<sup>29</sup>, Roberto Roiz-Santiañez<sup>31,32</sup>, Benedicto Crespo-Facorro<sup>31,32</sup>, Lei Wang<sup>33,34</sup>, Kathryn I. Alpert<sup>33</sup>, Erik G. Jönsson<sup>5,35</sup>, Rali Dimitrova<sup>36</sup>, Catherine Bois<sup>36</sup>, Heather C. Whalley<sup>36</sup>, Andrew M. McIntosh<sup>36</sup>, Stephen M. Lawrie<sup>36</sup>, Ryota Hashimoto<sup>37</sup>, Paul M. Thompson<sup>2\*</sup>, and Jessica Turner<sup>24,38\*</sup> for the ENIGMA – Schizophrenia Working Group<sup>39</sup> (2015). **Brain Volume Abnormalities Based on the Comparison of 2,028 Cases and 2,540 Controls by the ENIGMA Schizophrenia Working Group, SOBP 2015, Toronto. Authors abbreviated for submission, to:** Theo G. M. van Erp<sup>1</sup>, Derrek P. Hibar<sup>2</sup>, Steven G. Potkin<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Jessica A. Turner<sup>3,4</sup>, ENIGMA - Schizophrenia Working Group.
776. Rachel M. Brouwer<sup>1</sup>, David C. Glahn<sup>2</sup>, Derrek P. Hibar<sup>3</sup>, Xue Hua<sup>3</sup>, Neda Jahanshad<sup>3</sup>, Carol E. Franz<sup>4</sup>, Karen Mather<sup>5</sup>, Wei Wen<sup>5</sup>, Dorret I. Boomsma<sup>6</sup>, John H. Gilmore<sup>7</sup>, Nitin Gogtay<sup>8</sup>, René S. Kahn<sup>1</sup>, William S. Kremen<sup>4</sup>, Perminder S. Sachdev<sup>5</sup>, Margie J. Wright<sup>9</sup>, Paul M. Thompson<sup>3#</sup>, Hilleke E. Hulshoff Pol<sup>#</sup> (2015). **Genetic influences on brain plasticity: first results of the ENIGMA Plasticity Working Group, SOBP 2015, Toronto.**
777. **Martine Hoogman, (+67 authors) for the ENIGMA ADHD Working Group, SOBP 2015, Toronto.**
778. Christopher D. Whelan<sup>1</sup>, Doug Speed<sup>2</sup>, Carolien DeKovel<sup>3</sup>, Jonathan Bradfield<sup>4</sup>, Gui Hongsheng<sup>5</sup>, Costin Leu<sup>6</sup>, Derrek P. Hibar<sup>1</sup>, Jason L. Stein<sup>1</sup>, The ILAE Consortium on Genetics of Complex Epilepsies, Sanjay Sisodiya<sup>7</sup>, Michael Johnson<sup>8</sup>, David Goldstein<sup>9</sup>, Norman Delanty<sup>1,10</sup>, Sarah E. Medland<sup>11</sup>, Barbara Franke<sup>12</sup>, Paul M. Thompson<sup>2</sup>, Gianpiero Cavalleri (2015). Investigating polygenic contributions of common hippocampal variants to epilepsy predisposition, **SOBP 2015, Toronto.**
779. Christopher R. K. Ching<sup>1, 2</sup>, Boris A. Gutman<sup>2</sup>, Derrek P. Hibar<sup>2</sup>, Neda Jahanshad<sup>2</sup>, Benson Mwangi<sup>3</sup>, Jair C. Soares<sup>3</sup>, Paul M. Thompson (2015) **Subcortical shape differences in bipolar disorder subtypes, SOBP 2015, Toronto.**
780. Sarah K. Madsen, Greg Ver Steeg, Adam Mezher, Neda Jahanshad, Talia M. Nir, Xue Hua, Boris A. Gutman, Aram Galstyan, Paul M. Thompson (2015). Predicting Cognitive Decline with Information-Theoretic Clustering of Brain MRI and Blood Tests, **SOBP 2015, Toronto.**
781. L. Zhan<sup>1, 2</sup>, N. Jahanshad<sup>2</sup>, J. Faskowitz<sup>2</sup>, D. Zhu<sup>2</sup>, G. Prasad<sup>2</sup>, N.G. Martin<sup>3</sup>, G.I. de Zubicaray<sup>4</sup>, K.L. McMahon<sup>5</sup>, M.J. Wright<sup>3</sup>, P.M. Thompson (2015). Genetic investigation of diffusion MRI derived brain network topology in 548 twins, **SOBP 2015, Toronto.**

782.L. Zhan<sup>1,2</sup>, Y. Liu<sup>3</sup>, J. Zhou<sup>3</sup>, J. Ye<sup>3</sup>, P.M. Thompson<sup>2</sup> (2015). A novel classification framework for mild cognitive impairment subtypes using diffusion MRI, **SOBP 2015, Toronto**.

#### **AD/PD Conference 2015**

783.Derrek P. Hibar, Nathan Pankratz, Tatiana Foroud, Paul M. Thompson and the ENIGMA Consortium (2015). **Boosting power to detect Parkinson's disease genetic risk variants by conditioning on genetic determinants of brain structure**, International Conference on Alzheimer's Disease and Parkinson's disease (AD/PD 2015), Nice, France, 2015.

784.Daniel A. Rinker, Miguel Renteria, Derrek P. Hibar, Neda Jahanshad, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, Paul M. Thompson (2015). Multiple sclerosis polygenic risk score is associated with white matter integrity in 398 healthy young adults. International Conference on Alzheimer's Disease and Parkinson's disease (AD/PD 2015), Nice, France, 2015.

#### **OHBM 2015 ABSTRACTS (53 ABSTRACTS; abstracts on ENIGMA are in yellow)**

785.Boyle CP, Chen JA, Parikshak NN, Stein JL, Horvath S, Miller BL, Geschwind DH, Coppola G, Thompson PM. Patterns of Atrophy in Alzheimer's Disease, Frontotemporal Dementia, and Progressive Supranuclear Palsy. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

786.Boyle CP, Raji CA, Erickson KI, Lopez OL, Becker JT, Gach HM, Longstreth WT, Popov M, Kuller L, Carmichael OT, Thompson PM. Use of Estrogen May Preserve Brain Structure Despite Progression of Dementia. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

787.Braskie MN, Dennis EL, Montgomery GW, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Thompson PM (2015). *Alzheimer's disease risk gene TREM2 and lower synchronicity of fMRI signal in young adults*. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

788.Brouwer RM, Glahn DC, Hibar DP, Hua X, Jahanshad N, Franz CE, Hansell NK, Koenis MMG, Mather K, Panizzon MS, Strike LT, Swagerman S, Thalamuthu A, Wen W, Boomsma DI, Gilmore JH, Gogtay N, RS Kahn, Kremen WS, Sachdev PS, Wright MJ, Thompson PM, Hulshoff Pol HE. Genetic influences on longitudinal changes in subcortical volumes: results of the ENIGMA Plasticity Working Group. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

789.Chen X, Jahanshad N, Thompson P, Essen DV, Kochunov P, Nichols T. Accelerated Bivariate Heritability Inference Using ERV. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

790.Ching CRK, Gutman BA, Hibar DP, Jahanshad N, Mwangi B, Soares JC, Thompson PM. Shape modeling reveals subcortical differences in large cohort of bipolar subtypes. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.

791.Ching CRK, Hibar DP, Jahanshad N, Hua X, McMahon KL, de Zubicaray GI, Wright MJ, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative. Oxidative stress regulating genetic variant linked to protective effect on elderly brain volumes. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.

792.Ching CRK, Gutman BA, Nir TM, Hua X, Jahanshad N, Harezlak J, Tate DF, Schifitto G, Gongvatana A, Zhong J, Zhu T, Taylor MJ, Campbell TB, Daar ES, Alger JR, Singer E, Cohen RA, Navia B, Thompson PM. High-

- resolution shape analysis reveals subcortical morphometry and lymphocyte relationships in HIV+. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
793. Daianu M, Jacobs RE, Zlokovic BV, Montagne A, Thompson PM. SNR and Angular Error for 7T Multi-shell Hybrid Diffusion Imaging (HYDI) in the Mouse Connectome. Organization for Human Brain Mapping (OHBM) 2015.
794. Daianu M, Jahanshad N, Mezher A, Nir TM, Jack CR Jr, Weiner MW, Bernstein MA, Thompson PM. Reduced global connectivity, but a relatively preserved rich club network in Alzheimer's disease. Organization for Human Brain Mapping (OHBM) 2015.
795. Dennis EL, Baboyan V, Hua X, Jack Jr. CR, Weiner MW, Thompson PM for the DoD-ADNI Initiative (2015). Volumetric Brain Abnormalities in Vietnam Veterans with PTSD. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
796. Dennis EL, Jin Y, Villalon-Reina JE, Kernan C, Babikian T, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow R, Thompson PM (2015). Tract-based Analysis of White Matter Alterations in Pediatric TBI: Mapping Individual Abnormalities. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
797. Dennis EL, Prasad G, Jack Jr. CR, Weiner MW, Thompson PM for the DoD-ADNI Initiative (2015). Dimension Reduction using EPIC Reveals Abnormal Brain Structural Connectivity in PTSD. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
798. De Reus M, van den Heuvel M, Reeß TJ, Koch K, Thompson PM, Jahanshad N (2015) Towards an ENIGMA connectome atlas: comparing connection prevalence across sites. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
799. Dima D, Papachristou E, Turner J, Glahn DC, Hibar DP, van Erp TGM, Medland SE, Thompson PM, Frangou S, ENIGMA Lifespan Working Group. Subcortical brain volumes across the lifespan based on 10,722 people aged 2 to 92. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
800. Faskowitz J, Jahanshad N, Hansell NK, Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Thompson PM (2015). *CD56+ Natural Killer Cell Counts Associate with Reductions in White Matter Fractional Anisotropy*. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
801. Fouche JP, Jahanshad N, Joska J, Paul R, Hoare J, Valcour VG, Woods AJ, Porges E, Thompson PM, Navia B, Stein D, Cohen RA (2015) A meta-analysis by the ENIGMA-HIV working group: CD4 counts predict subcortical volume loss in HIV-positive individuals. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
802. Guadalupe T, Baboyan VG, Crivello F, Franke B, Grabe H, Hibar DP, Jahanshad N, Medland SE, Renteria M, Sisodiya S, Tzourio-Mazoyer N, Whelan C, Wittfeld K, Zwiers MP, Thompson PM, Mazoyer M, Fisher S, Francks C (2015) Sex and handedness effects on human subcortical and hippocampal asymmetries meta-analyzed in 5101 individuals aged 14 to 90: ENIGMA-Lateralization, Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
803. Gutman BA, Ching CRK, Kelly S, Alpert K, Corvin A, van Erp T, Turner J, Thompson P, Wang L (2015) *Meta-Analysis of Subcortical Shape Reveals Differences Between Schizophrenia Patients and Controls*. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

804. Gutman BA, Looi J, Ching CRK, Thompson PM (2015) *Subcortical Shape Differences across Neurodegenerative Diseases* Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
805. Hibar DP, Westlye L, Doan NT, Jahanshad N, Ching CRK, Walton E, Haukvik UK, Hartberg CB, Agartz I, Dale AM, Gruber O, Krämer B, Trost S, Liberg B, Ekman CJ, Ingvar M, Landén M, Fears SC, Freimer NB, Bearden CE, and the Costa Rica/Colombia Consortium for Genetic Investigation of Bipolar Endophenotypes, Glahn DC, Pearlson GD, Emsell L, Kenney J, Scanlon C, McDonald C, Cannon DM, Almeida J, Versace A, Caseras X, Lawrence NS, Phillips ML, Dima D, Delvecchio G, Frangou S, Satterthwaite T, Wolf D, Houenou J, Henry C, Malt UF, Bøen E, Elvsåshagen T, Young AH, Lloyd AJ, Goodwin GM, Mackay CE, Bourne C, Bilderbeck A, Abramovic L, Boks MP, van Haren NEM, Ophoff R, Kahn R, Bauer M, Pfennig A, Alda M, Hajek T, Mwangi B, Soares JC, Nickson T, Dimitrova R, Sussmann JE, Hagenaars S, Whalley HC, McIntosh AM, Thompson PM, Andreassen OA, for the ENIGMA - Bipolar Disorder Working Group. Cortical thickness and surface area differences in bipolar disorder subtypes. Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
806. Hoogman M, Bralten J, Mennes M, Zwiers M, van Hulzen K, Schweren L, Hibar D, The ENIGMA-ADHD working Group, Thompson P, Franke B (2015). Subcortical volumes across the life span in ADHD: an ENIGMA collaboration. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
807. Jahanshad N, Kochunov P, Armstrong N, Bastin M, Bearden C, Brouwer R, Deary I, Fears S, Franke B, Fullerton J, Hariri A, Hashimoto R, Hellard SL, Hibar D, Kelly S, Knickmeyer R, Knodt A, Lemaitre H, MCINTOSH A, Schumann G, Sprooten E, Roberts G, Pol HH, Nyberg L, Wen W, vanHulzen K, Zwiers M, Szeszkó P, Nichols T, ADNI, Wright M, Håberg AK, Thompson P, Glahn D. Meta-analyzing genome-wide associations with white matter microstructure – the ENIGMA-DTI group. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
808. Jahanshad N, Hibar D, Faskowitz J, Medland S, McMahon K, Zubicaray Gd, Martin N, Wright M, Thompson P. Voxelwise Meta Analysis for Multi-Site Brain Mapping. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
809. Kelly S, Jahanshad N, Agartz I, Andreassen O, Fatouros-Bergman H, Brouwer R, Cahn W, Calhoun V, Cannon D, Castrillon G, Chiapponi C, Corvin A, Doan N.T, Ehrlich S, Crespo-Facorro B, Flyckt L, Fukunaga M, Glahn D, Gollub R, Gur R, Tordesillas-Gutierrez D, Hashimoto R, Hatton S, Hibar D, Hickie I, Horáček J, Lopez Jaramillo C, Jönsson E, Kahn R, Kubicki M, Knöchel C, Oertel-Knöchel V, Kikinis Z, Langen C, Lagopoulos J, Lyall A, Magnotta V, Mandl R, McDonald C, Melicher T, Newell D, Pasternak O, Piras F, Pearlson G, Hulshoff Pol H, Roalf D, Roiz-Santiañez R, De Rossi P, Rotenberg D, Satterthwaite T, Spalletta G, Spaniel F, Stäblein M, Tønnessen S, Vanegas A, Vargas C, Voineskos A, Westlye L, White T, Zhao J, Thompson P, Turner J, Donohoe G, The ENIGMA-Schizophrenia DTI working group, (2015). White Matter Differences in Schizophrenia: Meta-analytic findings from ENIGMA-SZ DTI. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
810. Kochunov P, Jahanshad N, Thompson P, Glahn D, Van Essen DC et al. (2015). Large-scale efforts are underway to map the profile of genetic effects in the human brain. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
811. Li B, Jie Shi, Boris A. Gutman, Paul M. Thompson, Richard J. Caselli, Yalin Wang (2015). Longitudinal study of Genetic Influence of APOE e4 on hippocampal atrophy with conformal geometry, Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.

- 812.Madsen SK, Adamson C, Peraza L, Walterfang M, Velakoulis D, Seal M, Looi JCL, Thompson PM (2015). Associations between Corpus Callosum Morphometry and Regional Cortical Thickness in 834 Older Adults, Honolulu, Hawaii, June 14-18 2015.
- 813.Madsen SK, Riedel BC, Shalvarjian K, Peraza L, Azatian Y, Hua X, Brinton RD, Thompson PM (2015). Liver Enzyme Bilirubin, Brain Structure, and Alzheimer's Disease Pathology in 636 Older Adults, Honolulu, Hawaii, June 14-18 2015.
- 814.Mezher A, Ching CRK, Daianu M, Hua X, Jahanshad N, Jack CR Jr., Weiner MW, Jagust WJ, Bernstein MA, Thompson PM (2015). Amyloid- $\beta$  Plaque Burden Predicts Rates of Cortical Atrophy in Temporal Lobes 12 and 24 Months Later, Honolulu, Hawaii, June 14-18 2015.
- 815.Nir TM, Neda Jahanshad, Christopher R. K. Ching, Xue Hua, Jaroslaw Harezlak, Giovanni Schifitto, Assawin Gongvatana, Jianhui Zhong, Tong Zhu, Ronald A. Cohen, Bradford Navia, Paul M. Thompson (2015). Altered structural white matter networks are associated with processing speed in HIV+ people, Honolulu, Hawaii, June 14-18 2015.
- 816.Nir TM, Neda Jahanshad, Arvin Saremi, Wasana Prasitsuebsai, Akash Desai, Stephanie Catella, Sukalya Lerdlum, Pannee Visrutaratna, Kanchana Pruksakaew, Linda Aurpibul, Thanyawee Puthanakit, Stephen J. Kerr, Paul M. Thompson, Victor G. Valcour, Jintanat Ananworanich, on behalf of the SEARCH 012 and PREDICT Study Groups (2015). Local brain-volume variation in children with perinatally acquired HIV via tensor-based morphometry, Honolulu, Hawaii, June 14-18 2015.
- 817.Patel V, Thompson PM, Salamon N (2015). Denoising on Anisotropy Metrics Computed from DW-MRI, Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
- 818.Prasad G, Mezher A, Thompson PM. Classification of Alzheimer's Disease Connectivity Through Unlabeled Parkinson's Disease Data. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
- 819.Prasad G, Mezher A, Corbin C, Thompson PM. Association of Olfactory Scores and White Matter in Parkinson's Disease Using Maximum Density Paths. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
- 820.Prasad G, Jahanshad N, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Thompson PM. Refining the Structural Connectome to Classify Sex Differences. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
- 821.Prasad G, Mackey L, Mezher A, Thompson PM. Simplifying the Connectome for Alzheimer's Disease and Parkinson's Disease Classification. Organization for Human Brain Mapping (OHBM), Honolulu, Hawaii, June 14-18 2015.
- 822.Riedel BC, Madsen SK, Ching CRK, Hua X, Brinton RD, Thompson PM. Plasma lymphocyte percent as an early risk marker for pre-clinical Alzheimer's disease. Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
- 823.Rinker DA, Hibar DP, Jahanshad N, The International Multiple Sclerosis Genetics Consortium (IMSGC), the ENIGMA Consortium, Beecham AH, Oksenberg JR, McCauley JL, Thompson PM (2015). Genetic pleiotropy between subcortical brain volumes and multiple sclerosis risk variants: a preliminary analysis. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

824. Schmaal L, Dick J, Veltman, Theo G. M. van Erp, Brenda W. J. H. Penninx, Paul M. Thompson, Derrek P. Hibar, for the ENIGMA Major Depressive Disorder Working Group (2015). Structural Brain Alterations in Major Depression: findings from the ENIGMA Major Depressive Disorder Working Group, Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
825. Shi J, Cynthia M. Stonnington, Paul M. Thompson, Kewei Chen, Boris A. Gutman, Cole Reschke, Leslie C. Baxter, Eric M. Reiman, Richard J. Caselli, Yalin Wang (2015). Ventricular Shape Morphometry in Mild Cognitive Impairment studied with Diffeomorphic Surface Registration, Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
826. Stein J, Franke B, Hibar D, van Hulzen K, Nichols TE, Arias-Vásquez A, Sarah Medland S, Thompson P, The ENIGMA2 Consortium, The SZ working group Psychiatric Genetics Consortium. Evaluating Overlap between Genetic Influences on Schizophrenia Risk and Subcortical Brain Volumes. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
827. Van Erp T\*, Hibar DP\*, Rasmussen JM, Glahn DC, Pearlson GD, Andreassen OA, Agartz I, Westlye LT, Haukvik UK, Dale AM, Melle I, Hartberg CB, Gruber O, Kraemer B, Zilles D, Donohoe G, Kelly S, McDonald C, Morris DW, Cannon DM, Corvin A, Machielsen MWJ, Koenders L, de Haan L, Veltman DJ, Satterthwaite TD, Wolf DH, Gur RC, Gur RE, Potkin SG, Mathalon DH, Mueller BA, Preda A, Macciardi F, Ehrlich S, Walton E, Hass J, Calhoun VD, Bockholt HJ, Sponheim SR, Shoemaker JM, van Haren NEM, Hulshoff Pol HE, Ophoff RA, Kahn RS, Roiz-Santiañez R, Crespo-Facorro B, Wang L, Alpert KI, Jönsson EG, Rali Dimitrova, Catherine Bois, Whalley HC, McIntosh AM, Lawrie SM, Hashimoto R, Thompson PM\*, and Jessica Turner\* for the ENIGMA – Schizophrenia Working Group (2015). **ENIGMA Schizophrenia Working Group Brain Volume Comparison between 2,028 Cases and 2,540 Controls**, Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
828. Villalon-Reina JE, Talia M. Nir, Neda Jahanshad, Artemis Zavaliangos-Petropulu, Matt A. Bernstein, Clifford R. Jack Jr., Michael W. Weiner, Paul M. Thompson, for the Alzheimer’s Disease Neuroimaging Initiative (ADNI). Classification of Alzheimer’s Disease using Nearest Shrunken Centroids on white matter DWI features. Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
829. Wade BSC, Joshi SH, Gutman BA, Narr KL, Thompson PM. Disease Classification using Subcortical Surface Shape with Guided Regulated Random Forests. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
830. Whelan CD, Speed D, deKovel C, Bradfield J, Hongsheng G, Leu C, ILAE Consortium on Complex Epilepsies, Hibar DP, Stein J, Johnson M, Sisodiya S, Goldstein D, Delanty N, Medland S, Franke B, Thompson PM, Cavalleri GL. Polygenic contributions of ENIGMA2 hippocampal SNPs in 8,835 epilepsy patients and 29,037 controls. Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
831. Whelan CD, Hibar DP, Kelly S, Jahanshad N, Thompson PM. Test-test reliability & between version agreement of automatically-extracted hippocampal subfields. Organization for Human Brain Mapping (OHBM) annual meeting, Honolulu, Hawaii, June 14-18 2015.
832. Zavangalios-Petropulu A, Jahanshad N, Faskowitz J, Garavan H, Conrod P, Thompson PM. Lower cortical thickness in healthy adults who use multiple substances of abuse. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
833. Zhan L, Jahanshad N, Faskowitz J, Zhu D, Prasad G, Martin NG, de Zubicaray GI, McMahon KL, Wright MJ, Thompson PM. Genetic analysis of diffusion MRI derived brain network topology in 548 twins. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.

- 834.Zhan L, Liu Y, Jahanshad N, Nir TM, Valcour VG, Ye J, Thompson P. Boosting the power to detect HIV effects on brain connectivity using High-Order SVD. Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18 2015.
- 835.Zhu D, Zhan L, Faskowitz J, Daianu M, Jahanshad N, Zubicaray G, McMahon K, Martin N, Wright M, Thompson PM (2015). Genetic Analysis of Brain Structural Connectivity via DICCCOL Models in 522 Twins, OHBM 2015.
- 836.Zhu D, Lin B, Faskowitz J, Ye J, Thompson PM (2015). Embedded Sparse Learning of fMRI Data via Group-wise Dictionary Optimization, OHBM 2015.

#### **AAIC 2015 (Alzheimer's Disease Imaging Conference)**

- 837.Xiaohui Yao, Jingwen Yan, Sungeun Kim, Kwangsik Nho, Shannon L. Risacher, Tatiana M. Foroud, **Paul M. Thompson**, Steven G. Potkin, Nadeem Sarwar, Robert C. Green, Arthur W. Toga, Michael W. Weiner, Andrew J. Saykin, Li Shen, for the Alzheimer's Disease Neuroimaging Initiative (2015). **Genetic Findings using ADNI Multimodal Quantitative Phenotypes: A 2014 Update, submitted to AAIC Conference, 2015.**
- 838.Julia A Scott, PhD<sup>1</sup>, Pauline Maillard, PhD<sup>1</sup>, Meredith N Braskie, PhD<sup>2</sup>, Duygu Tosun, PhD<sup>3</sup>, **Paul Thompson, PhD<sup>2</sup>**, Michael W Weiner, MD<sup>3</sup>, Charles DeCarli, MD<sup>1</sup> and Owen T Carmichael, PhD<sup>4</sup> (2015). **Cerebral Amyloid Is Associated with Poorer Integrity of White Matter Lesions, Penumbra, and Healthy White Matter in the Elderly, submitted to AAIC Conference, 2015.**

#### **SFN 2015 (21 abstracts)**

- 839.*Justin A. Galvis, Julio E. Villalon, Gautam Prasad, Conor Corbin, Talia M. Nir, Leila Kushan-Wells, Carrie E. Bearden, Paul M. Thompson (2015). White Matter Microstructure Differences in Adolescents with Autism, Psychosis and 22q11.2 Deletion Syndrome, SFN Conference 2015.*
- 840.Madelaine Daianu, Zvart Abaryan, Russell E. Jacobs, Terrence Town, Paul M. Thompson. Axonal Diameter Estimated with 7-Tesla Hybrid Diffusion Imaging in Transgenic Alzheimer Rats. SfN 2015, *submitted.*
- 841.Talia M Nir, Julio E Villalon-Reina, Boris Gutman, Liang Zhan, Neda Jahanshad, Clifford R Jack Jr, Michael Weiner, Paul M. Thompson, **Alzheimer's disease classification with novel microstructural metrics from diffusion-weighted MRI**, SFN 2015, *submitted.*
- 842.Daniel A. Rinker, Gautam Prasad, Miguel Renteria, Neda Jahanshad, Derrek P. Hibar, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, Paul M. Thompson. Relating white matter "potholes" to polygenic risk for Multiple Sclerosis. SfN 2015
- 843.Joshua Faskowitz, Derrek P. Hibar, Paul M. Thompson, Neda Jahanshad. Test-retest reliability of cortical parcellations in 165 healthy adults for multi-site analyses in the ENIGMA consortium. SFN 2015, *submitted.*
- 844.Daniel Schonfeld, Talia M. Nir, Neda Jahanshad, Christopher R.K. Ching, Xue Hua, Assawin Gongvatana, Bradford Navia, Ronald A. Cohen, Paul M. Thompson. Denoising of Diffusion MRI Boosts Power to detect Hepatitis C effects on the Brain in HIV+ adults, SFN 2015, *submitted.*
- 845.Zvart Abaryan, Fiona Wilkes, Christopher RK Ching, Boris A Gutman, Sarah K Madsen, Mark Walterfang, Julie Stout, Andrew Churchyard, Phyllis Chua, Dennis Velakoulis, Gary Egan, Jeffrey CL Looi, Paul M Thompson, Nellie Georgiou-Karistianis. Striatal shape differs before and after symptom onset in Huntington's disease and relates to clinical severity: the IMAGE HD study. SFN 2015, *submitted.*



846. Christopher RK Ching, Boris A Gutman, Talia M. Nir, Daniel Schonfeld, Neda Jahanshad, Xue Hua, Assawin Gongvatana, Bradford Navia, Ronald A. Cohen, Paul M. Thompson. High-resolution shape analysis in HIV+ adults reveals associations between neurocognitive performance and subcortical morphometry. SFN 2015, submitted.
847. Artemis Zavaliangos-Petropulu, Neda Jahanshad, Cliff Jack, Michael Weiner, Matthew A. Bernstein, Paul M. Thompson. Comparison of Diffusion Weighted Imaging Protocols for Investigating Alzheimer's Disease in ADNI. SFN 2015, submitted.
848. Brandalyn C. Riedel, Dajiang Zhu, Neda Jahanshad, Joshua Faskowitz, Roberta Diaz Brinton, and Paul M. Thompson (2015). Differential white matter connectivity abnormalities in elderly carriers of the Alzheimer's risk allele APOE- $\epsilon$ 4 by cognitive status. *Neuroscience 2015 Abstracts, Chicago, IL: Society for Neuroscience, 2015*.
849. Vatche Baboyan, Adam Mezher, Emily L. Dennis, Madelaine Daianu, Yan Jin, Talin Babikian, Christopher Giza, Robert F. Asarnow, Paul M. Thompson. Disruptions to White Matter Microstructure of the Default Mode Network in Pediatric Traumatic Brain Injury. SFN 2015, submitted.
850. Christopher D Whelan, Christopher RK Ching, Boris A Gutman, Zvart Abaryan, Saud Alhusaini, Andrew Fagan, Colin P Doherty, Norman Delanty, Gianpiero L. Cavalleri and Paul M Thompson. Subcortical shape modeling provides sensitive markers of structural abnormality in non-lesional temporal lobe epilepsy. SFN 2015, submitted.
851. Anjanibhargavi Ragothaman, Christopher R. K. Ching, Adam Mezher, Zvart Abaryan, Paul M. Thompson, Boris A. Gutman. Striatal and thalamic shape alterations in Parkinson's disease, SfN 2015.
852. Arvin Saremi<sup>1</sup>, Wasana Prasitsuebsai MD<sup>2</sup>, Neda Jahanshad PhD<sup>1</sup>, Talia M. Nir BS<sup>1</sup>, Katherine Clifford BA<sup>6</sup>, Linda Aurrpibul, MD<sup>3</sup>, Paul M. Thompson PhD<sup>1,9</sup>, Kanchana Pruksakaew MSc<sup>2</sup>, Sukalaya Lerdlum MD<sup>4</sup>, Pannee Visrutaratna MD<sup>5</sup>, Stephen J. Kerr PhD<sup>2</sup>, Thanyawee Puthanakit MD<sup>2,4</sup>, Robert Paul PhD<sup>7</sup>, Jintanat Ananworanich MD PhD<sup>2,8,10</sup> Victor G. Valcour MD PhD<sup>6,10</sup> on behalf of the SEARCH 012 and the PREDICT Study Groups (2015). White Matter Abnormalities in HIV+ Children and Associations with Processing Speed, SFN submitted.
853. **Florence F. Roussotte\***, Katherine L. Narr, Paul M. Thompson (2015). The C677T variant in *MTHFR* modulates associations between cognitive functioning and mood scores in old age: implications for vascular risk factors as treatment targets for both age-related cognitive decline and geriatric depression. SFN, submitted.
854. Sinead Kelly<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Joshua Faskowitz<sup>1</sup>, Christopher Ching<sup>1</sup>, Derrek P. Hibar<sup>1</sup>, Benson Irungu, Jair Soares, Paul M. Thompson (2015). White matter microstructural differences in bipolar disorder detected using ENIGMA-DTI protocols for data harmonization, SFN, submitted.
855. Anthony J. Krafnick<sup>1</sup>, Daniel A. Rinker<sup>2</sup>, Timothy T. Brown<sup>3</sup>, Arthur W. Toga<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Kristi A. Clark (2015). Effect of ADHD candidate risk SNPs on cortical thickness in typical children and young adults, SFN, submitted.
856. Yan Jin<sup>1,3</sup>, Chao Huang<sup>2</sup>, Hongtu Zhu<sup>2</sup>, Paul M. Thompson (2015). 3-D Tract-based Regression Analysis of White Matter Abnormalities in Alzheimer's Disease, SFN, submitted.
857. Boris Gutman, Neda Jahanshad, Pamela Douglas, Paul M. Thompson (2015). Mapping subcortical shape heritability to empower genetic association studies, SFN, submitted.

858.E. L. DENNIS<sup>1</sup>, M. ELLIS<sup>2,4</sup>, S. MARION<sup>4</sup>, Y. JIN<sup>1</sup>, C. KERNAN<sup>2</sup>, T. BABIKIAN<sup>2</sup>, R. MINK<sup>5</sup>, C. BABBITT<sup>6</sup>, J. JOHNSON<sup>7</sup>, C. GIZA<sup>8</sup>, R. ASARNOW<sup>2,3</sup>, P. THOMPSON<sup>1</sup>. Callosal function in pediatric traumatic brain injury linked to disrupted white matter integrity. Society for Neuroscience 2015, submitted.

#### **ASHG 2015 (American Society for Human Genetics)**

859.Michelle K Lupton<sup>1</sup>, Lachlan Strike<sup>1,2,3</sup>, Wei Wen<sup>4</sup>, Karen A Mather<sup>4</sup>, Nicola J Armstrong<sup>5</sup>, Anbupalam Thalamuthu<sup>4</sup>, Katie L McMahon<sup>2</sup>, Greig I de Zubicaray<sup>3</sup>, Amelia A Assareh<sup>4</sup>, Andrew Simmons<sup>6</sup>, Petroula Proitsi<sup>6</sup>, John F Powell<sup>6</sup>, Grant W Montgomery<sup>1</sup>, Derrek P Hibar<sup>7</sup>, Eric Westman<sup>8</sup>, Magda Tsolaki<sup>9</sup>, Iwona Kloszewska<sup>10</sup>, Hilikka Soininen<sup>11</sup>, Patrizia Mecocci<sup>12</sup>; Bruno Velas<sup>13</sup>, Simon Lovestone<sup>6,14</sup>, the Alzheimer's Disease Neuroimaging Initiative, Henry Brodaty<sup>4</sup>, David Ames<sup>15</sup>, Julian N Trollor<sup>4</sup>, Nicholas G Martin<sup>1</sup>, Paul M Thompson<sup>7</sup>, Perminder S Sachdev<sup>4</sup>, Margaret J Wright<sup>1</sup>. **The use of genetic risk factors to assess prodromal brain changes in Alzheimer's disease**, ASHG 2015.

#### **Behavioral Genetics Association (BGA) 2015**

860.Baptiste Couvy-Duchesne; Lachlan Strike; Paul Thompson; Katie McMahon; Greig de Zubicaray; Nick G. Martin; Ian Hickie; Margaret Wright; **Non-linear association of anxiety-depression (SPHERE) score with cortical surface and surface area**, BGA 2015, June 2015, San Diego, CA.

861.Dennis EL, Talin Babikian, Jeffry Alger, Yan Jin, Jeffrey Johnson, Christopher Babbitt, Richard Mink, Christopher Giza, **Paul M. Thompson**, Robert Asarnow (2015). *Integrated DWI and MRS Reveal White Matter Dysfunction in Pediatric TBI*, International Neurotrauma Society Conference (INTS), 2016, Cape Town, South Africa.

#### **RANZCP 2016**

862.**J.C.L. Looi<sup>1,2</sup>, D. Velakoulis<sup>2</sup>, P.M. Thompson<sup>3</sup>, M. Walterfang<sup>2</sup>, B.D. Power<sup>4</sup>, R. Molina-Ruiz<sup>5</sup>, A.F. Santillo<sup>6</sup>, N. Georgiou-Karistianis<sup>7</sup>, C. Nilsson<sup>8</sup>, D. van Westen<sup>9</sup>, L.O. Wahlund (2016). AUSSIE: THE AUSTRALIAN US SCANDINAVIAN SPANISH IMAGING EXCHANGE FOR NEUROPSYCHIATRIC NEUROIMAGING**, Royal Australia and New Zealand Congress on Psychaitry, Hong Kong, May 2016.

863.**J.C.L. Looi<sup>1,2</sup>, D. Velakoulis<sup>2</sup>, P.M. Thompson<sup>3</sup>, M. Walterfang<sup>2</sup>, B.D. Power<sup>4</sup>, R. Molina-Ruiz<sup>5</sup>, A. Santillo<sup>6</sup>, N. Georgiou-Karistianis<sup>7</sup>, C. Nilsson<sup>8</sup>, D. van Westen<sup>9</sup>, L.O. Wahlund (2016). THE SHAPE AND FORM OF NEUROPSYCHIATRIC DISEASE IN THE BRAIN**, Royal Australia and New Zealand Congress on Psychaitry, Hong Kong, May 2016.

864.**PM Thompson (2016). ENIGMA-ND: THE ENIGMA NEUROIMAGING GENETICS PROJECT FOR NEUROPSYCHIATRIC DISEASE AND AUSSIE**, Royal Australia and New Zealand Congress on Psychiatry, Hong Kong, May 2016.

#### **CNS 2016**

865.Brandalyn C. Riedel, Roberta D. Brinton, Paul M. Thompson (2016). **Elucidating the role of ABO blood type in risk for Alzheimer's Disease**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.

866.Christopher R. K. Ching, Boris A Gutman, Artemis Zavaliangos-Petropulu, Daqiang Sun, Rachel K. Jonas, Leila Kushan, Paul M. Thompson, Carrie E. Bearden (2016). **22q11.2 Deletion Syndrome: Novel subcortical**

**shape analysis reveals subtle variations associated with IQ and psychiatric diagnosis**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.

867. Dan Rinker, Neda Jahanshad, Derrek P. Hibar, The ADNI, Paul M. Thompson (2016). **Catechol-O-Methyltransferase (COMT) variant is associated with performance on neuropsychological test of executive processing speed in 379 participants**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.
868. Artemis Zavaliangos-Petropulu, Neda Jahanshad, Talia M. Nir, Clifford R Jack Jr., Michael W. Weiner, Matt A. Bernstein, Paul M. Thompson (2016). **Annual Changes in DTI Metrics Correlate with MMSE Score Decline in the Elderly**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.
869. Faisal M. Rashid, Emily L. Dennis, Monica U. Ellis, Sarah D. Marion, Yan Jin, Talin Babikian, Claudia Kernan, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Paul M. Thompson, Robert Asarnow (2016). **Effects of Disruption in White Matter Integrity Shown Chronically in Pediatric Traumatic Brain Injury**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.

#### **CROI 2016**

870. Schonfeld D et al. (2016). **Meta-Analysis of Large HIV Cohort Reveals CD4 Effects on Longitudinal Brain Atrophy**, 2016 Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA, USA, February 22-25, 2016.
871. Ching C et al. (2016). **NeuroHIV: A Novel High-Resolution Subcortical Shape Analysis**, 2016 Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA, USA, February 22-25, 2016. [CROI Scholar Award].
872. Daniel A. Rinker, Derrek P. Hibar, Josh Cheung, Neda Jahanshad, ENIGMA2, Paul M. Thompson (2016). **Genetic pleiotropy between regional brain volumes and cardiovascular disease risk variants**, 3<sup>rd</sup> International Conference on Heart & Brain, Paris, France, Feb. 25-27 2016.
873. Jahanshad N, ...58 authors in total from the ENIGMA-DTI Working Group, ... **Thompson PM**, Glahn D, Nichols TE, Kochunov P (2016). **Do candidate genes for psychiatric disorders consistently influence white matter microstructure? A mega-analysis of 6165 individuals from the ENIGMA-DTI Consortium, submitted to SOBP 2016, Atlanta, GA, USA.**

#### **OHBM 2016 (55 abstracts) – in a separate book**

874. Boyle CP, Erickson KI, Lopez OL, Becker JT, Gach HM, Longstreth Jr. WT, Popov M, Carmichael OT, Thompson PM (2016) 'Factors Associated With Cortical Morphometry in Older Females Revealed by Canonical Correlation Analysis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
875. Cheung JW, Hibar DP, Jahanshad N, Nalls MA, Pankratz N, Foroud T, Singleton AB, Thompson PM (2016) 'Genetic overlap between variants influencing Parkinson's disease risk and brain volumes', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

876. Faskowitz J, McMahon KL, de Zubicaray GI, Wright MJ, Thompson PM, Jahanshad N (2016) 'Big Data harmonization on a voxelwise scale: reliability of tensor-based morphometry', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
877. Harrison M\*, Prasad G\*, Jahanshad N, Hafzalla G, Faskowitz J, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Thompson PM (2016) 'Optimizing the discovery of genetically influenced brain connectivity networks using EPIC', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
878. Nir TM, Valcour VG, Jahanshad N, Prasitsuebsai W, Pruksakaew K, Clifford K, Lerdlum S, Pothisri M, Visrutaratna P, Aurbibul L, Puthanakit T, Kosalaraksa P, Ananworanich J, Thompson PM, on behalf of the SEARCH 012 and PREDICT Study Groups (2016) 'Altered Brain Structure in Children with Perinatally Acquired HIV', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
879. Nir TM, Villalon-Reina JE, Thompson PM, Jahanshad N (2016) 'Anatomic Filtering of Structural Connectome Fibers to Improve Alzheimer's Disease Classification', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
880. Dennis EL, Babikian T, Alger JR, Villalon-Reina JE, Rashid F, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, Thompson PM (2016) 'Tract-Based Spectroscopy Reveals White Matter Damage in Pediatric TBI', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
881. Dennis EL, Chen L, Lancaster S, Swanson C, Haswell C, Thompson PM, Morey RA (2016) 'Decreased Hippocampal Subfield Volumes in Post-Traumatic Stress Disorder', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
882. Dennis EL, Logue M, Ashley-Koch A, Garrett M, Lancaster S, Hauser M, McLaughlin K, Peverill M, Sheridan M, Harpaz-Rotem I, Levy I, Wrocklage K, Krystal J, Abdallah C, Thompson P, Jahanshad N, Thomaes K, Veltman D, Koch S, Geuze E, Stein D, Ipser J, Ressler K, Stevens J, Miller M, van Rooij S, and Morey RA, for the PGC-ENIGMA PTSD Workgroup (2016) 'Altered Subcortical Volumes Post Traumatic Stress Disorder: A PGC-ENIGMA PTSD Study of 11 cohorts', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
883. Rinker DA, Daianu M, Ver Steeg G, Galstyan A, Thompson PM (2016) 'Information-theoretic discovery and clustering of ASL, structural, and cognitive markers of brain aging', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
884. Villalon-Reina JE, Galvis J, Jahanshad N, Nir TM, Corbin C, Colvert G, Kushan L, Jonas R, Van Amelsvoort T, Bakker G, Campbell LE, McCabe KL, Vorstman J, Gras L, Simon T, Thompson PM, Bearden CE (2016) 'White Matter differences in 22q11.2 Deletion Syndrome: ENIGMA working group meta-analysis findings.', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
885. Moyer D, Gutman B, Jahanshad N, Thompson PM (2016) 'Cluster Weighted Regressions for Connectome Analysis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
886. Whelan CD, Adams S, Alhusaini S, Bargalló N, Bartolini E, Bernasconi A, Bernhardt B, Blackmon K, Calvo A, Carr S, Cavalleri GL, Cendes F, Cerasa A, Cherubini A, Concha L, Cook MJ, Cruces R, Depondt C, Desmond P, Devinsky O, Föcke N, Foley S, Gambardella A, Guerrini R, Hamandi K, Hibar DP, Jackson G, Jahanshad N, Kälviäinen R, Keller SS, Kotikalapudi R, Kwan P, Labate A, Ladbon-Bernasconi N, Langner S, Lenge M, Leyden K, Liu M, Loi RQ, Mascalchi M, McDonald C, Meletti S, Mirandola L, Morita M, Naylor J, O'Brien T, Pariente JC, Ren Y, Richardson M, Ruggieri A, Rummel C, Saavalainen T, Seeck M, Semmelroch M, Severino MS, Striano P, Thesen T, Thomas R, Tondelli M, Tortora D, Vaudano AE, Velakoulis D, Vivash

- L, Vulliemoz S, Weber B, Wiest R, Yasuda C, Zhang J, Thompson PM and Sisodiya S, for the ENIGMA-Epilepsy Working Group. (2016) 'ENIGMA-Epilepsy: Worldwide brain structural comparisons in 1,738 epilepsy cases and 1,358 controls ', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 887.Hibar DP, Westlye LT, Doan NT, Thompson PM, Andreassen OA for the ENIGMA Bipolar Disorder Working Group (2016) 'Cortical thinning with longer duration of illness in 2,272 bipolar patients versus 2,662 controls', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 888.Gurholt TP, Raballo A, Lonning V, Westlye LT, Andreassen OA, Agartz I (2016) 'Neuroimaging of Early-Onset Psychosis from an ENIGMA perspective', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 889.van Rooij D, Anagnostou E, Auzias G, Behrmann M, Calderoni S, Daly E, Deruelle C, Dinstein I, Dimartino A, Durston S, Ecker C, Fair D, Fitzgerald J, Freitag C, Gallagher L, Gori I, Haar S, Hoekstra L, Jalbrzikowski M, Lerch J, Luna B, McGrath J, Muratori F, Murphy C, Murphy D, O'Hearn K, Oranje B, Retico A, Rubia K, Shook D, Taylor M, Tosetti M, Wallace G and Buitelaar J (2016) 'Subcortical brain volume development over age in ASD: results from the ENIGMA ASD working group.', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 890.Gutman B, Hatton S, Dannlowski U, Gotlib IH, Walter H, Hickie I, Soares JC, Lagopoulos J, Sacchet M, Veer IM, Grotegerd D, Wu MJ, Mwangi B, Kugel H, Redlich R, Baune B, Wittfeld K, Grabe H, Saemann P, Gruber O, Goya-Maldonado R, Kraemer B, Walter M, Li M, Harrison B, Liu K, Ching C, Zavaliangos-Petropulu A, Saremi A, Jahanshad N, Isaev D, Thompson PM, Veltman D, Schmaal L, for ENIGMA Major Depressive Disorder Working Group (2016) 'Subcortical Shape alterations in Major Depressive Disorder: ENIGMA findings in 1636 subjects', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 891.Ragothaman A, Zavaliangos-Petropulu A, Saremi A, Ching CRK, Thompson PM, Gutman BA (2016) 'Mapping Subcortical Shape Change Rates in Alzheimer's Disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 892.Schmaal L, Hibar DP, Thompson PM, Veltman DJ, on behalf of the ENIGMA Major Depressive Disorder Working Group (2016) 'Cortical Brain Alterations in Major Depressive Disorder in Adolescence and Adulthood: findings from the ENIGMA Major Depressive Disorder Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 893.Mackey S, Charani B, Alia-Klein N, Batalla A, Brooks S, Cousijn J, Dagher A, de Ruiter M, Desrivieres S, Feldstein-Ewing S, Gillespie N, Goldstein RZ, Goudriaan AE, Heitzeg MM, Hutchison K, Li CSR, London E, Lorenzetti V, Luijten M, Martin-Santos R, Momenan R, Morales A, Paulus MP, Paus T, Pearlson G, Schluter R, Schmaal L, Schumann G, Sjoerds Z, Stein D, Stein EA, Sinha R, Solowij N, Tapert S, Uhlmann A, Veltman DJ, van Holst R, Walter H, Wright MG, Yucel M, Yurgelun-Todd D, Hibar DP, Jahanshad N, Thompson PM, Glahn DC, Garavan H and Conrod P (2016) 'ENIGMA Addiction Working Group: Comparing Cortical Volume In Addicted and Non-Addicted Individuals', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 894.Desrivieres S, Jia T, Ruggeri B, Liu Y, Sarkisyan D, Syvänen AC, Axelsson T, Bakalkin G, Thompson PM, ENIGMA Epigenetics Working Group, Gunter Schumann, IMAGEN consortium (2016) 'Identifying epigenetic markers affecting the brain (ENIGMA-Epigenetics)', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

- 895.Sønderby IE, Doan NT, Gustafsson O, Hibar D, Agartz I, Djurovic S, Fladby T, Jönsson E, Sando SB, Westlye LT, Thompson PM, Andreassen OA, ENIGMA-CNV working group (2016) 'Coupling subcortical brain volumes with CNVs: A preliminary mega-analysis in ENIGMA-CNV', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 896.Fouche JP, Jahanshad N, Woods AJ, Levine A, Ances B, Nakamoto B, Brew B, Shikuma C, Hinken C, Ching C, Porges ES, Hoare J, Harezlak J, Ananworanich J, Heaps J, Chaganti J, Kallianpur K, Pruksakaew K, Clifford K, Wendelken L, Paul R, Kuhn T, Valcour VG, Prasitsuebsai W, Joska J, Thompson PM, Navia B, Cohen RA, Stein DJ (2016) 'The ENIGMA-HIV Group: Association of CD4 Levels with Brain Structure in HIV-positive Adults', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 897.Hoogman M, Bralten J, Onnink M, Mennes SE, Zwiers M, Hibar DP, The ENIGMA-ADHD working Group, Thompson PM, Franke B (2016) 'A large scale study of cortical measures in ADHD across the life span: an ENIGMA-ADHD collaboration', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 898.de Zwarte SMC, Brouwer RM, Hillegers MHJ, Cahn W, Hulshoff Pol HE, Wang L, Alpert KI, Alda M, Hajek T, Mitchell PB, Roberts G, Schofield PR, Fullerton J, Soares JC, Mwangi BI, Murray RM, McDonald C, Gruber O, Richter A, Turner JA, Glahn DC, van Erp TGM, Jahanshad N, Hibar DP, Thompson PM, Kahn RS & van Haren NEM (2016) 'Brain volumes in first-degree family members of schizophrenia or bipolar patients: an ENIGMA meta-analysis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 899.Boedhoe PSW, Schmaal L, Abe Y, Ameis S, Arnold P, Batistuzzo MC, Benedetti F, Beucke JC, Bose A, Bollettini I, Brem S, Calvo A, Cheng Y, Cho KK, Dallaspezia S, Denys D, Fitzgerald KD, Fouche JP, Giménez M, Gruner P, Hanna GL, Hibar DP, Hoexter MQ, Huyser C, Ikari K, Jahanshad N, Kathmann N, Kaufmann C, Koch K, Kwon JS, Lazaro L, Liu Y, Lochner C, Marsh R, Martínez-Zalacáin I, Mataix-Cols D, Menchón JM, Minuzzii L, Nakamae T, Nakao T, Narayanaswamy JC, Piras F, Piras F, Pittenger C, Reddy YCJ, Sato JR, Simpson HB, Soreni N, Soriano-Mas C, Spalletta G, Stevens MC, Szeszko PR, Tolin DF, Venkatasubramanian G, Veltman DJ, Walitza S, Wang Z, van Wingen GA, Yun JY, Xu J, Xu X, Zhao Q, ENIGMA-OCD working group, Thompson PM, Stein DJ and van den Heuvel OA (2016) 'Age-specific subcortical volumetric abnormalities in Obsessive-Compulsive Disorder (OCD): findings from the ENIGMA-OCD Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 900.Brouwer RM, Panizzon MS, Glahn DC, Hibar DP, Hua X, Jahanshad N, Abramovic L, de Zubicaray GI, Franz CE, Hansell NK, Hickie IB, Koenis MMG, Mather K, McMahon KL, Strike LT, Swagerman SC, Thalamuthu A, Wen W, Boomsma DI, Gilmore JH, Gogtay N, Kahn RS, Kremen WS, Sachdev PS, Wright MJ, Thompson PM, Hulshoff Pol HE.(2016) 'Genetic influences on longitudinal changes in brain volumes from the ENIGMA Plasticity Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 901.Kelly S, van Velzen L, Hatton S, Aleman A, Baune BT, Cheng Y, Dannlowski U, Deppe M, Frodl T, Glahn D, Gotlib IH, Groenewold N, Grotegerd D, Guo W, Ho T, Ikram KM, Kugel H, Kunugi H, Lagopoulos J, Lett TA, McIntosh A, McMahon KL, Martin NG, Meinert S, Nickson T, Ota M, Portella MJ, Sacchet M, Saemann P, Stein D, Tozzi L, Veltman DJ, Walter H, Walter M, Wright MJ, Yang T, de Zubicaray GI, Thompson PM, Jahanshad N, Schmaal L (2016) 'White Matter Differences in Major Depression: Meta-analytic findings from ENIGMA-MDD DTI', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
- 902.Kelly S, Jahanshad N, P Hibar DP, Agartz I, Alloza C, Andreassen O, Arango C, Bouix S, Bousman C, Brouwer R, Bruggemann J, Calhoun V, Cannon D, Carr V, Castrillón G, Catts S, Chiapponi C, K Cho KK, Corvin A, Crespo-facorro B, Croypley V, De Rossi P, Dickie E, Doan NT, Ehrlich S, Fatouros-Bergman H, Flyckt L, Fouche J, Fukunaga M, Gill M, Glahn D, L Gollub RL, C Gur RC, Hashimoto R, Hatton S, Henskens

- F, Hickie I, L Hong EL, Horacek J, Howells F, Hulshoff Pol H, Seidman LJ, Jablensky A, Jansen P, Janssen J, Jönsson E, Kikinis Z, Kirra L, Klauser P, Knöchel C, Kochunov P, Kubicki M, Kwon J, Lagopoulos J, Langen C, Lawrie S, Lenroot R, Lopezjaramillo C, Lyall A, Magnotta V, Mandl R, W McCarley RW, McCarthy-Jones S, McDonald C, McIntosh A, Melicher T, I Meshulam-Gately RI, T Michie PT, Mowry B, Newell D, Oertel-Knöchel V, Oestreich L, Pantelis C, Pasternak O, Pearlson G, Pereira A, Pineda J, Piras F, Rasser P, Roalf D, Roiz R, Rotenberg D, Satterthwaite T, Savadjiev P, Schall U, Scott R, Seal M, Shannon-Weickert C, E Shenton ME, Spalletta G, Spaniel F, Stäblein M, Stein D, Sundram S, Tordesillas D, D Vargas CD, Velakoulis D, Voineskos A, W Weickert TW, Westlye L, Whalley H, White T, J Whitford TJ, Wojcik J, Yamamori H, Zalesky A, Zhao J, van Erp T, Turner J, M Thompson PM, Donohoe G (2016) 'ENIGMA-Schizophrenia DTI: Meta-analysis of FA measures in 3,031 cases and controls from 14 countries', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
903. Pauling M, Sarrazin S, Jahanshad N, Hibar DP, Henry C, Hajek T, Alda M, Soares JC, Mwangi B, Ching C, Faskowitz J, Ophoff R, van Haren N, Abramovic L, Caseras X, Lopez-Jaramillo, Mitchell, Roberts G, Fullerton J, Wen W, Breakspear M, Schofield P, Elvsashagen T, Malt U, Boen E, McDonald C, Cannon D, Najt P, Phillips ML, Versace A, Almeida J, McIntosh A, Whalley H, Sussmann J, Nickson T, Agartz I, Haukvik U, Westlye LT, Pearlson G, Glahn D, Yao N, Busatto GF, Zanetti MV, Rosa P, Benedetti F, Delvecchio G, Brambilla P, Polosan M, Eyler LT, Howells F, Stein D, Wessa M, Linke J, Dannlowski U, Grotegerd D, Thompson PM, Andreassen OA, Houenou J, for the ENIGMA-Bipolar Disorder DTI Working Group (2016) 'Bipolar disorder and white matter microstructure: ENIGMA Bipolar disorder DTI results', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
904. van Erp TGM, Hibar DP, Walton E, Schmaal L, Jiang W, Agartz I, Alpert KI, Andreassen OA, Beard L, Bertolino A, Bockholt HJ, Aurora B, Borgwardt S, Cairns MJ, Calhoun VD, Cannon D, Carr VJ, Catts S, Chiapponi C, Cooper G, Corvin A, Crespo-Facorro B, Croyley V, Dale AM, Haan Lde, de Rossi P, Zwarte Sde, Di Giorgio A, Dickie E, Doan NT, Donohoe G, Ehrlich S, Fatouros-Bergman H, Flyckt L, Fukunaga M, Fullerton JM, Glahn DC, Green MJ, Gur RE, Gur RC, Gurholt TP, Gutman B, Hartberg CB, Hashimoto R, Haukvik UK, Henskens F, Hong E, Hoschl C, Howells F, Hulshoff Pol HE, Jablensky A, Jahanshad N, Janssen J, Jönsson EG, Kahn RS, Kelly S, King MD, Knöchel C, Kochunov P, Koenders L, Koops S, Kwon JS, Lawrie SM, Lenroot RK, Loughland C, Macciardi F, Mathalon DH, McDonald C, McIntosh AM, McKenna PJ, Michie P, Morris DW, Mowry B, Mueller BA, Neilson E, Oertel-Knöchel V, Okada N, Ophoff RA, Pantelis C, Pearlson GD, Piras F, Pomarol-Clotet E, Potkin SG, Preda A, Quidé Y, Raballo A, Radua J, Rasser PE, Richter A, Roiz-Santiañez R, Rotenberg D, Salvador R, Satterthwaite TD, Schall U, Schofield PR, Scott RJ, Seal M, Shen L, Shoemaker JM, Skoch A, Sommer IEC, Spalletta G, Spaniel F, Sponheim SR, Stein D, Stäblein M, Tomecek D, Tooney P, Uhlmann A, Amelsvoort Tvan, van Haren NEM, Veltman DJ, Voineskos A, Wang L, Weickert CS, Weickert TW, Westlye LT, Whalley HC, Whelan CD, Wolf DH, Yamamori H, Yao N, Yun J, Zilles D, Thompson PM, Turner JA (2016) 'An ENIGMA Schizophrenia Working Group Meta-Analysis of Cortical Thickness/Area in over 6000 Subjects', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
905. Gupta V, Harrison M, Prasad G, Thompson PM, ADNI (2016)', Multimodal analysis of Alzheimer's disease using diffusion and anatomic MRI', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
906. Pizzagalli F, Auzias G, Faskowitz JI, Kochunov P, Glahn DC, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Jahanshad N, Thompson PM (2016) 'Heritability of 492 cortical sulci measures in 1459 adults', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
907. Daianu M, Ver Steeg G, Riedel B, Zavaliangos-Petropulu A, Galstyan A, Thompson PM (2016) 'Modeling dependencies in weak biomarkers of Alzheimer's disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

908. Ching C, Gutman B, Zavaliangos-Petropulu A, Sun D, Jonas R, Lin A, Kushan L, van Amelsvoort T, Bakker G, Kates W, Campbell L, McCabe K, Daly E, Gudbrandsen M, Murphy C, Murphy D, Craig M, Vorstman J, Fiksinski A, Gras L, Thompson PM, Bearden C, for the 22q11.2 ENIGMA Working Group (2016) '22q11.2 Gene Dosage Effects on Subcortical Brain Structure: The ENIGMA 22q11.2 Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
909. Riedel BC, Brinton RD, Thompson PM (2016) 'White blood cell counts and regional brain volumes in Alzheimer's disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
910. Wade BSC, Valcour VG, Prasitsuebsai W, Clifford K, Saremi A, Gutman BA, Jahanshad N, Nir TM, Ananworanich J, Watson C, Puthanakit T, Aupibul L, Thompson PM (2016) 'PREDICT Shape abstract', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
911. Wade BSC, Velez C, Drennon AM, Bolzenius J, Thompson PM, Lewis J, Ritter J, York G, Tate DF (2016) 'Volumetric and Shape Analyses of Brain Structure in Military Service Members with Mild Brain Trauma', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
912. Isaev D, Gutman BA, Jahanshad N, Nir TM, Thompson PM (2016) 'Connectome registration via iterative spectral refinement', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
913. Kochunov P, Ganjgahi H, Winkler A, Kelly S, Shukla D, Du X, Jahanshad N, Rowland L, O'Donnell P, Xie Z, Paciga S, Schubert C, Thompson PM, Nichols TE, Hong E (2016) 'Heterochronicity of White Matter Development and Aging and Susceptibility to Schizophrenia', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
914. Stein J, Shatokhina N, Hibar DP, Jahanshad N, Thompson PM (2016) 'ENIGMA-Vis: Updated interactive visualization of genetic influences on brain structure', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
915. Corbin C, Villalon-Reina JE, Galvis J, Nir TM, Jahanshad N, Jonas R, Kushan L, Thompson PM, Bearden CE (2016) 'White Matter Structural Alterations Mapped In Patients With 22q11.2 Deletion Syndrome', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
916. Wang J, Braskie MN, Hafzalla G, Faskowitz J, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Yu C, Thompson PM (2016) 'Common OXTR gene variant impacts structure and function of default mode network in healthy humans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
917. Jin Y, Huang C, Daianu M, Zhan L, Zhu H, Thompson PM (2016) '3-D Tract-Specific Functional Analysis of White Matter Integrity in Alzheimer's Disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
918. Roussotte FF, Hua X, Narr KL and Thompson PM (2016) 'The C677T variant in MTHFR mediates associations between blood and CSF neurodegeneration biomarkers', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
919. Liew SL, Jahanshad N, Anglin J, Kim B, Nho H, Li J, Rondina J, Borich M, Boyd L, Cramer S, Lang C, Sanossian N, Soekadar S, Ward N, Winstein C, Thompson PM (2016) 'ENIGMA Stroke Recovery Working Group: Big Data Approaches to Predict Stroke Recovery from MRI Scans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016



920. Zhang J, Stonnington CM, Li Q, Shi J, Bauer III RJ, Gutman BA, Chen K, Reiman EM, Caselli RJ, Thompson PM, Ye J, Wang Y (2016) 'Patch-based Sparse Coding and Multivariate Surface Morphometry for Alzheimer's Disease Prognosis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
921. Shiroishi MS, Faskowitz J, D'Amore F, Emami A, Cen S, Lerner A, Toga AW, Jacobs RE, Zlokovic B, Law M, Thompson PM, and Jahanshad N (2016) 'Structural Brain Effects of Cancer Derived From Clinically-Indicated Contrast-Enhanced MRI Scans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
922. Strike LT, Hansell NK, Couvy-Duchesne B, Thompson PM, Martin NG, de Zubicaray G, McMahon KL, Wright MJ (2016) 'Genetic influences on the cerebral cortex', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
923. Sämann P, Höhn D, Elbau I, Czisch M, Jahanshad N, Whelan CD, Hibar D, Veltman D, Schmaal L, Thompson PM (2016) 'ENIGMA-MDD hippocampal subfield analysis of first episode and recurrent Major Depressive Disorder', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
924. Gutman B, Adams HHH, Hibar DP, Vernooij MW, Ikram MA, Jahanshad N, Thompson PM (2016) 'Mapping Common Genetic Variants onto Subcortical Surface Models', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
925. Prasad G, Harrison M, Faskowitz J, Jahanshad N, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, and Thompson PM (2016) 'Optimizing Cortical Thickness Measures to Boost Heritability', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
926. Faskowitz J, Pizzagalli F, Jahanshad N, Ching C, Mwangi B, Soares J, Thompson PM (2016) 'Cortical investigation of bipolar disorder reveals inferior frontal gyral and sulcal abnormalities', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
927. *Sonja de Zwarte, Rachel Brouwer, Manon Hillegers, Wiepke Cahn, Hilleke Hulshoff Pol, Kathryn Alpert, Lei Wang, Fergus Kane, Marco Picchioni, Elvira Bramon, Colm McDonald, Robin Murray, Tomas Hajek, Martin Alda, Gloria Roberts, Philip Mitchell, Peter Schofield, Janice Fullerton, Benson Mwangi, Jair Soares, Anja Richter, Oliver Gruber, Aurora Bonvino, Annabella Di Giorgio, Alessandro Bertolino, Emma Neilson, Stephen Lawrie, Xavier Caseras, Scott Fears, Carrie Bearden, David Glahn, Theo van Erp, Neda Jahanshad, Derrek Hibar, Paul Thompson, Jessica Turner, René Kahn, Neeltje van Haren (2016). BRAIN VOLUMES IN FAMILY MEMBERS OF SCHIZOPHRENIA OR BIPOLAR PATIENTS: AN ENIGMA META-ANALYSIS*, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
928. Sergey Plis<sup>1</sup>, Anand Sarwate<sup>2</sup>, Dylan Wood<sup>3</sup>, Christopher Dieringer<sup>1</sup>, Drew Landis<sup>4</sup>, Cory Reed<sup>1</sup>, Sandeep Panta<sup>1</sup>, Jessica Turner<sup>5</sup>, Jody Shoemaker<sup>3</sup>, Kim Carter<sup>3</sup>, Paul Thompson<sup>6</sup>, Vince Calhoun (2016). COINSTAC: A privacy enabled model for leveraging and processing decentralized brain imaging data, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
929. Binish Patel<sup>1</sup>, Habib Ganjgahi<sup>2</sup>, Sung Yu<sup>3</sup>, Xu Chen<sup>2</sup>, Neda Jahanshad<sup>4</sup>, Paul Thompson<sup>4</sup>, Bennett Landman<sup>5</sup>, Dennis Ent<sup>6</sup>, Anouk den Braber<sup>6</sup>, Eco de Geus<sup>6</sup>, Rachel Brouwer<sup>7</sup>, Hilleke Hulshoff Pol<sup>7</sup>, Greig de Zubicaray<sup>8</sup>, Katie McMahon<sup>8</sup>, Nicholas Martin<sup>9</sup>, Margaret Wright<sup>9</sup>, David Glahn<sup>10</sup>, David Van Essen<sup>11</sup>, Thomas Nichols<sup>12</sup>, Peter Kochunov (2016). Homogenizing Estimates of Heritability Among SOLAR-Eclipse, OpenMx, APACE, and Per Leopard Software, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.

930. Anjanibhargavi Ragothaman<sup>1</sup>, Artemis Zavaliangos-Petropulu<sup>2</sup>, Arvin Saremi<sup>2</sup>, Christopher Ching<sup>3</sup>, Paul Thompson<sup>4</sup>, Boris Gutman (2016). Mapping Subcortical Shape Change Rates in Alzheimer's Disease, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.

#### AAIC 2016

931. Xiaohui Yao, Jingwen Yan, Michael Ginda, Katy Borner, Sungeun Kim, Kwangsik Nho, Shannon L. Risacher, Tatiana M. Foroud, Steven G. Potkin, Paul M. Thompson, Jason H. Moore, Michael W. Weiner, Andrew J. Saykin, Li Shen, for the Alzheimer's Disease Neuroimaging Initiative (2016). **The Growth and Impact of ADNI Genetics Publications as Measured by Science Mapping, AAIC 2016.**
932. Satizabal C\*, Hieab H. Adams\*, Derrek P. Hibar, CHARGE consortium, ENIGMA consortium, Arfan Ikram, Paul Thompson, Sudha Seshadri (2016). Genetic Determinants of MRI subcortical brain volumes: 24 novel loci identified through GWAS in 26,000 persons, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
933. Lorenzi M, Boris Gutman, Andre Altmann, Derrek P. Hibar, Neda Jahanshad, Daniel C. Alexander, Paul M. Thompson, and Sebastien Ourselin. Linking Gene Pathways and Brain Atrophy in Alzheimer's Disease. Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
934. Corlier F, Hafzalla GW, Rawat R, Kuller LH, Becker JT, Lopez OL, Thompson PM, Braskie MN. Aging Brain Structure is Related to Systemic Inflammation and Associated Genetic Variants, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA
935. Scott JA, Braskie MN, Tosun D, Thompson PM, Weiner MW, DeCarli C, Carmichael OT. MRI and CSF Biomarker Predictors of Executive Function and Memory in the Elderly. 2016. Submitted to Alzheimer's Association International Conference. Toronto, Canada.
936. Scott JA, Tosun D, Braskie MN, Maillard P, Thompson PM, Weiner MW, DeCarli C, Carmichael OT. Cerebral Amyloid is Associated with Greater White Matter Hyperintensity Accrual over 2 years in the Elderly. 2016. Submitted to Alzheimer's Association International Conference. Toronto, Canada.
937. Nho K, Ph.D.<sup>1,2,3\*</sup>, Sungeun Kim, Ph.D.<sup>1,2,3</sup>, Shannon L. Risacher, Ph.D.<sup>1,3</sup>, Li Shen, Ph.D.<sup>1,2,3</sup>, Paul M. Thompson, Ph.D.<sup>4</sup>, Frank Gunn-Moore Ph.D.<sup>5</sup>, and Andrew J. Saykin, Psy.D.<sup>1,2,3,6\*</sup>, for the Alzheimer's Disease Neuroimaging Initiative (2016). Whole brain surfaced-based analysis identified brain atrophy associated with SNPs in *FRMD6* linked to AD, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
938. Gutman B, Brandalyn Riedel, Anjani Ragothapalan, Paul M. Thompson, Sex Hormone Levels Moderate the Effects of Alzheimer's Disease on Subcortical Morphometry. Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.

#### Euthynidis Conference 2016

939. Marieke Klein<sup>1</sup>, Jason L. Stein<sup>2</sup>, ENIGMA2 consortium, ADHD working group of the Psychiatric Genomics Consortium, iPSYCH consortium, Anders Borglum<sup>3</sup>, Stephen V. Faraone<sup>4</sup>, Paul M. Thompson<sup>5</sup>, Sarah E. Medland<sup>6</sup>, Alejandro Arias-Vasquez<sup>1,7,8</sup>, Barbara Franke (2016). **Investigating the overlap between common genetic factors for ADHD and subcortical brain volumes**, Euthynidis Conference 2016.

#### ISTSS Conference 2016

940. Rajendra A. Morey<sup>1</sup>, Emily L. Dennis<sup>2</sup>, Allison Ashley-Koch<sup>3</sup>, Melanie Garrett<sup>3</sup>, Sarah Lancaster<sup>4</sup>, Mike Hauser<sup>3</sup>, Kate McLaughlin<sup>5</sup>, Matthew Peverill<sup>5</sup>, Margaret Sheridan<sup>6</sup>, Ilan Harpaz-Rotem<sup>7</sup>, Ifat Levy<sup>7</sup>, Kristen Wrocklage<sup>7</sup>, John Krystal<sup>7</sup>, Chadi Abdallah<sup>7</sup>, Paul M. Thompson<sup>1</sup>, Kathleen Thomaes<sup>8</sup>, Dick Veltman<sup>8</sup>, Saskia Koch<sup>9</sup>, Elbert Geuze<sup>10</sup>, Dan Stein<sup>11</sup>, Jonathan Ipser<sup>11</sup>, Kerry Ressler<sup>12</sup>, Jennifer Stevens<sup>12</sup>, Mark Miller<sup>2</sup>, Sanne van Rooij<sup>12</sup>, Jim Lagopoulos<sup>13</sup>, Regina McGlinchey<sup>14</sup>, William P. Millberg<sup>14</sup> and Mark Logue<sup>14</sup> for the PGC-ENIGMA PTSD Workgroup (2016). **Altered Subcortical Volumes in PTSD: Findings from PGC-ENIGMA PTSD, ISTSS Conference 2016.**

#### **ISBD/ISAD 2016**

941. Pauling M<sup>1,2</sup>, Sarrazin S<sup>1,2,3</sup>, Jahanshad N<sup>4</sup>, Hibar DP<sup>4</sup>, Henry C<sup>1,3</sup>, Hajek T<sup>5,6</sup>, Alda M<sup>6</sup>, Soares JC<sup>7</sup>, Mwangi B<sup>7</sup>, Ching C<sup>4</sup>, Faskowitz J<sup>4</sup>, Ophoff R<sup>8,9</sup>, van Haren NE<sup>9</sup>, Abramovic L<sup>9</sup>, Caseras X<sup>10</sup>, Foley S<sup>10</sup>, Lopez-Jaramillo C<sup>11</sup>, Mitchell PB<sup>12</sup>, Roberts G<sup>12</sup>, Fullerton JM<sup>12,13</sup>, Wen W<sup>12</sup>, Schofield PR<sup>12,13</sup>, Elvsashagen T<sup>14,15,16,17</sup>, Malt U<sup>15,18</sup>, Boen E<sup>15,19</sup>, Doan NT<sup>15,19</sup>, McDonald C<sup>20</sup>, Cannon DM<sup>20</sup>, Najt P<sup>20</sup>, Phillips ML<sup>21</sup>, Versace A<sup>21</sup>, Almeida J<sup>21,22</sup>, McIntosh A<sup>23</sup>, Whalley H<sup>23</sup>, Sussmann J<sup>23</sup>, Nickson T<sup>23</sup>, Agartz I<sup>14,15</sup>, Haukvik U<sup>14,15</sup>, Westlye LT<sup>14,15</sup>, Pearlson G<sup>24,25</sup>, Glahn D<sup>24,25</sup>, Yao N<sup>24,25</sup>, Busatto GF<sup>26,27</sup>, Zanetti MV<sup>27,28</sup>, Rosa P<sup>27,28</sup>, Benedetti F<sup>29</sup>, Delvecchio G<sup>30</sup>, Brambilla P<sup>30</sup>, Polosan M<sup>31,32</sup>, Eyer LT<sup>33</sup>, Howells F<sup>34</sup>, Stein D<sup>34</sup>, Wessa M<sup>35</sup>, Linke J<sup>35</sup>, Dannlowski U<sup>36</sup>, Reppe J<sup>36</sup>, Deppe M<sup>37</sup>, Kugel H<sup>38</sup>, Baune B<sup>39</sup>, Grotegerd D<sup>36</sup>, Thompson PM<sup>4</sup>, Andreassen OA<sup>14,18</sup>, Houenou J<sup>1,2,3</sup>, for the ENIGMA-Bipolar Disorder DTI Working Group (2016). **Bipolar disorder and white matter microstructure: ENIGMA Bipolar disorder DTI results, ISBD/ISAD meeting 2016 (Amsterdam, July 2016).**

#### **BGA (Behavior Genetics Association) 2016**

942. Baptiste Couvy-Duchesne, Lachlan T. Strike, Narelle K. Hansell, Nicholas G. Martin, Katie L. McMahon, Greig I. de Zubicaray, Paul M. Thompson, Margaret J. Wright (2016). **Power of multivariate GWAS: real case scenarios using brain phenotypes from MRI, BGA 2016, Brisbane, June 2016.**

943. Narelle Hansell, Lachlan Strike, Katie McMahon, Nicholas Martin, Greig de Zubicaray, Paul Thompson, Margaret Wright (2016). **Genetic Covariation Among Hippocampal Subfields, Power of multivariate GWAS: real case scenarios using brain phenotypes from MRI, BGA 2016, Brisbane, June 2016.**

944. Lachlan Strike, Narelle Hansell, Baptiste Couvy-Duchesne, Paul Thompson, Nicholas Martin, Greig de Zubicaray, Katie McMahon, Margaret Wright (2016). Genetic contributions to brain structure, **BGA 2016, Brisbane, June 2016.**

945. Dirk Smit, Steve Malone, Scott Burwell, Eco de Geus, Derrek Hibar, Paul Thompson, Dorret Boomsma, Nicholas Martin, Sarah Medland, Bernice Porjesz, William Iacono (2016). ENIGMA-EEG: GWAS of brain function, **BGA 2016, Brisbane, June 2016.**

#### **RSNA 2016**

946. Priya Rajagopalan, ..., Paul Thompson (2016). Higher levels of stress hormone, Cortisol, is associated with larger ventricular volumes, in two independent elderly study cohorts, submitted to RSNA 2016.

#### **SFN 2016 (10 abstracts)**

947. Sinead Kelly<sup>1\*</sup>, Laura S. van Velzen<sup>2\*</sup>, Sean Hatton<sup>12</sup>, Andre Aleman<sup>17</sup>, Bernhard T. Baune<sup>25</sup>, Yuqi Cheng<sup>21</sup>, Udo Dannlowski<sup>4</sup>, Michael Deppe<sup>22</sup>, Baptiste Couvy Duchesne<sup>14</sup>, Thomas Frodl<sup>6</sup>, David Glahn<sup>18</sup>, Ian H. Gotlib<sup>11</sup>, Nynke Groenewold<sup>17,19</sup>, Dominik Grotegerd<sup>4</sup>, Wenbin Guo<sup>5</sup>, Tiffany Ho<sup>10</sup>, Harald Kugel<sup>23</sup>, Hiroshi Kunugi<sup>15</sup>, Jim Lagopoulos<sup>12</sup>, Tristram A. Lett<sup>7</sup>, Andrew McIntosh<sup>9</sup>, Katie L. McMahon<sup>26</sup>, Nicholas G. Martin<sup>14</sup>, Susanne Meinert<sup>24</sup>, Tom Nickson<sup>9</sup>, Miho Ota<sup>15</sup>, Maria J. Portella<sup>16</sup>, Matthew D. Sacchet<sup>11</sup>, Philipp Saemann<sup>13</sup>, Dan Stein<sup>19</sup>, Leonardo Tozzi<sup>3</sup>, Dick Veltman<sup>2</sup>, Henrik Walter<sup>7</sup>, Martin Walter<sup>8</sup>, Margaret J. Wright<sup>14</sup>, Tony T. Yang<sup>10</sup>, Greg I. de Zubicaray<sup>27</sup>, Paul M. Thompson<sup>1</sup>, Neda Jahanshad<sup>1#</sup>, Lianne Schmaal<sup>2#</sup> (2016). White Matter Differences in Major Depression: Meta-analytic findings of 1,330 cases and controls from the ENIGMA-MDD DTI working group, **SFN 2016**, San Diego, CA, USA.
948. \*S.-L. LIEW<sup>1</sup>, N. JAHANSHAD<sup>1</sup>, J. ANGLIN<sup>1</sup>, N. KHOSHAB<sup>2</sup>, B. KIM<sup>1</sup>, W. NAKAMURA<sup>1</sup>, H. NHOUNG<sup>1</sup>, J. RONDINA<sup>3</sup>, C. TRAN<sup>1</sup>, M. BORICH<sup>4</sup>, L. BOYD<sup>5</sup>, S. CRAMER<sup>2</sup>, M. A. DIMYAN<sup>6</sup>, E. ERMER<sup>6</sup>, C. E. LANG<sup>7</sup>, J. LI<sup>1</sup>, T. NICHOLS<sup>8</sup>, P. ROBERTS<sup>9</sup>, N. SANOSSIAN, S. SOEKADAR<sup>10</sup>, N. WARD<sup>3</sup>, L. T. WESTLYE<sup>11</sup>, C. WINSTEIN<sup>1</sup>, G. F. WITTENBERG<sup>6</sup>, P.M. THOMPSON (2016). **ENIGMA Stroke Recovery: Big data neuroimaging to predict stroke recovery**, **SFN 2016**, San Diego, CA, USA
949. **Christopher R. K. Ching, Boris A Gutman, Daqiang Sun, Rachel K. Jonas, Amy Lin, Leila Kushan, Paul M. Thompson, Carrie E. Bearden and the ENIGMA 22q11.2 Working Group** (2016). 22q11.2 deletion and duplication syndrome: A high-resolution subcortical shape analysis, **SFN 2016**, San Diego, CA, USA.
950. Talia M. Nir<sup>1</sup>, Artemis Zavaliangos-Petropulu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Liang Zhan<sup>2</sup>, Alex D. Leow<sup>3</sup>, Matt A. Bernstein<sup>4</sup>, Clifford R. Jack, Jr<sup>4</sup>, Michael W. Weiner<sup>5</sup>, Paul M. Thompson<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2016). **Diffusion Tensor Distribution Function Maps Boost Power to Detect Alzheimer's Disease Deficits in Low Resolution Data**, **SFN 2016**, San Diego, CA, USA.
951. Faisal Rashid<sup>1</sup>, Emily L. Dennis<sup>1</sup>, Julio Villalon-Reina<sup>1</sup>, Gautam Prasad<sup>1</sup>, Josh Faskowitz<sup>1</sup>, Talin Babikian<sup>2</sup>, Richard Mink<sup>3</sup>, Christopher Babbitt<sup>4</sup>, Jeffrey Johnson<sup>5</sup>, Christopher C. Giza<sup>6</sup>, Robert F. Asarnow<sup>2,7,8</sup>, Paul M. Thompson (2016). **Improved Group Differentiation of Adolescent Traumatic Brain Injury using Multimodal Registration and Automatic Multi-atlas Tract Extraction (autoMATE)**, **SFN 2016**, San Diego, CA, USA.
952. Brandalyn C. Riedel, Roberta D. Brinton, & Paul M. Thompson (2016). Towards multivariate genetic models predicting Alzheimer's disease risk, **SFN 2016**, San Diego, CA, USA.
953. Marc Harrison, Gautam Prasad, Anjanibhargavi Ragothaman, Paul Thompson (2016). **Improving Connectome Based Classification of Parkinson's Disease**, **SFN 2016**, San Diego, CA, USA.
954. Joshua Faskowitz<sup>1</sup>, Fabrizio Pizzagalli<sup>1</sup>, Benson Mwangi<sup>2</sup>, Peter Kochunov<sup>3</sup>, Jair Soares<sup>2</sup>, Paul M. Thompson, Neda Jahanshad (2016). Cortical abnormalities in patients with bipolar disorder more localized than in those with schizophrenia, **SFN 2016**, San Diego, CA, USA.
955. Arvin Saremi<sup>1</sup>, Neda Jahanshad PhD<sup>1</sup>, Wasana Prasitsuebsai MD<sup>2</sup>, Talia M. Nir BS<sup>1</sup>, Katherine Clifford BA<sup>6</sup>, Linda Aurpibul, MD<sup>3</sup>, Kanchana Pruksakaew MSc<sup>2</sup>, Sukalaya Lerdlum MD<sup>4</sup>, Pannee Visrutaratna MD<sup>5</sup>, Stephen J. Kerr PhD<sup>2</sup>, Thanyawee Puthanakit MD<sup>2,4</sup>, Robert Paul PhD<sup>7</sup>, Jintanat Ananworanich MD PhD<sup>2,8,10</sup>, Paul M. Thompson PhD<sup>1,9</sup>, Victor G. Valcour MD PhD<sup>6,10</sup> on behalf of the SEARCH 012 and the PREDICT Study Groups (2016). **Longitudinal Effects of Combination Antiretroviral Therapy on White Matter Microstructure during Childhood Brain Development**, **SFN 2016**, San Diego, CA, USA.
956. Corlier F, Hafzalla G, Kuller LH, Becker JT, Lopez OL, Thompson PM, Braskie MN (2016). Aging brain structure is related to systemic inflammation and cardiovascular risk, **SFN 2016**, San Diego, CA, USA.

## ISMRM 2016

957.Emily Dennis, Talin Babikian, Jeffry Alger, Faisal Rashid, Yan Jin, Jeffrey Johnson, Christopher Babbitt, Richard Mink, Christopher Giza, Robert Asarnow, Paul Thompson (2016). **Integrated DWI and MRS Improve Prediction of Cognitive Outcome in Pediatric TBI, ISMRM 2016.**

## MASAMB 2016

958. Marco Lorenzi, Boris Gutman, Paul Thompson, Daniel Alexander, Andre Altmann and Sebastien Ourselin (2016). Enabling secure multivariate large-scale multi-centric analysis through on-line learning: an imaging genetics case study using recursive partial least squares, [Mathematical and Statistical Aspects of Molecular Biology Workshop](#), University of Cambridge, UK.

959.Sook-Lei Liew<sup>1</sup>, PhD, OTR/L, Neda Jahanshad<sup>1</sup>, PhD, Julia Anglin<sup>1</sup>, BS, Panthea Heydari<sup>1</sup>, BS, Nima Khoshab<sup>2</sup>, MS, Bokkyu Kim<sup>1</sup>, MS, PT, William Nakamura<sup>1</sup>, BS, Heng Nhoung<sup>1</sup>, BA, Jane Rondina<sup>3</sup>, PhD, Catherine Tran<sup>1</sup>, BS, Lisa Aziz-Zadeh<sup>1</sup>, PhD, Michael Borich<sup>4</sup>, PhD, DPT, Lara Boyd<sup>5</sup>, PhD, PT, Michael A. Dimyan<sup>6</sup>, MD, Elsa Ermer<sup>6</sup>, PhD, Catherine E. Lang<sup>7</sup>, PhD, PT, Junning Li<sup>1</sup>, PhD, Thomas Nichols<sup>8</sup>, PhD, Pamela Roberts<sup>9</sup>, PhD, OTR/L, Nerses Sanossian<sup>1</sup>, MD, Surjo Soekadar<sup>10</sup>, MD, Nick Ward<sup>3</sup>, MD, Junping Wang<sup>11</sup>, MD, PhD, Lars T. Westlye<sup>12</sup>, PhD, Carolee J. Winstein<sup>1</sup>, PhD, PT, FAPTA, George F. Wittenberg<sup>6</sup>, MD, PhD, Steven C. Cramer<sup>2</sup>, MD, & Paul M. Thompson<sup>1</sup>, PhD (2016). **Effects of Lesion Hemisphere on Post-Stroke Motor Impairment: ENIGMA Stroke Recovery (N=343), International Stroke Conference, 2016.**

960.M. Hoogman<sup>1</sup>, J. Bralten<sup>1</sup>, M. Onnink<sup>1</sup>, E. Shumskaya<sup>1</sup>, M. Mennes<sup>2</sup>, M. Zwiers<sup>2</sup>, The ENIGMA-ADHD Working Group<sup>3</sup>, P. Thompson<sup>4</sup>, Stephen V. Faraone, PhD<sup>5,6</sup>, Philip Shaw, PhD<sup>7,8</sup>, B. Franke (2016). Cortical maturation delays characterize ADHD in a large-scale mega-analysis across the life span performed by the ENIGMA-ADHD Working Group, ACNP, Dec. 2016.

961.Mark W. Logue<sup>a</sup>, \*Sanne J.H. van Rooij<sup>c</sup>, \*Emily L. Dennis<sup>b</sup>, Sarah L. Davis<sup>d,e</sup>, Courtney C. Haswell<sup>d,e</sup>, Lauren A.M. Lebois<sup>f</sup>, Milissa L. Kaufman<sup>f</sup>, Jonathan D. Wolff<sup>f</sup>, Lauren O'Connor<sup>f</sup>, Staci A. Gruber<sup>f</sup>, Justin T. Baker<sup>f</sup>, Sherry R. Winternitz<sup>f</sup>, Kerry J. Ressler<sup>f,c</sup>, Jim Lagopoulos<sup>g</sup>, Elbert Gueze<sup>h</sup>, Jennifer S. Stevens<sup>c</sup>, Tanja Jovanovic<sup>c</sup>, Miranda Olff<sup>i</sup>, Laura Nawijn<sup>i</sup>, Mirjam van Zuiden<sup>i</sup>, Jessie L. Frijling<sup>i</sup>, Saskia B. Koch<sup>i</sup>, Richard A. Bryant<sup>j</sup>, Mayuresh Korgaonkar<sup>j</sup>, Mark W. Miller<sup>a</sup>, Jasmeet P. Hayes<sup>a</sup>, Jeffrey M. Spielberg<sup>a</sup>, Erika J. Wolf<sup>a</sup>, David H. Salat<sup>a</sup>, William P. Milberg<sup>a</sup>, Regina E McGlinchey<sup>a</sup>, Katie A. McLaughlin<sup>k</sup>, Margaret A. Sheridan<sup>l</sup>, Matthew Peeverill<sup>k</sup>, Israel Liberzon<sup>m</sup>, Anthony P. King<sup>m</sup>, Xin Wang<sup>m,n</sup>, Neda Jahanshad<sup>b</sup>, Paul M. Thompson<sup>b</sup>, Ilan Harpaz-Rotem<sup>o</sup>, Ifat Levy<sup>o</sup>, Chadi G. Abdullah<sup>o,p</sup>, Kristen Wrocklage<sup>p</sup>, John H. Krystal<sup>p</sup>, Dan Stein<sup>q</sup>, Jonathan Ipser<sup>q</sup>, Sheri Koopowitz<sup>q</sup>, Ruth Lanius<sup>r</sup>, Maria Densmore<sup>r</sup>, Dick J. Veltman<sup>i,s</sup>, Kathleen Thomaes<sup>s</sup>, Rajendra A. Morey<sup>d,e</sup> (2016). **Reduced Amygdala and Hippocampal Volume in Post-traumatic Stress Disorder from Multi-Site Investigation by ENIGMA and PGC Consortia**, ACNP, Dec. 2016.

## SOBP 2017 (3 abstracts)

962.Faisal M. Rashid, Emily L. Dennis, Monica U. Ellis, Talin Babikian, Julio E. Villalon Reina, Yan Jin, Alexander Olsen, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Paul M. Thompson, Robert F. Asarnow (2017). Diverging Cognitive Trajectories Shown in Pediatric Moderate to Severe Traumatic Brain Injury, **SOBP 2017**, San Diego, CA, USA.

963.Sonja de Zwarte, Rachel Brouwer, Manon Hillegers, Wiepke Cahn, Hilleke Hulshoff Pol, René Kahn, Kathryn Alpert, Lei Wang, Elvira Bramon, Fergus Kane, Robin Murray, Tomas Hajek, Martin Alda, Gloria Roberts, Philip Mitchell, Peter Schofield, Janice Fullerton, Anja Richter, Oliver Gruber, Aurora Bonvino, Alessandro Bertolino, Annabella Di Giorgio, Xavier Caseras, Ali Saffet Gonul, Mehmet Cagdas Eker, Fatma Simsek, Scott

Fears, Carrie Bearden, David Glahn, Theo van Erp, Paul Thompson, Ole Andreassen, Jessica Turner, Neeltje van Haren for the ENIGMA-Relatives Group (2017). ENIGMA-Relatives – Brain Volumes in First-Degree Relatives of Schizophrenia and Bipolar, **SOBP 2017**, San Diego, CA, USA.

964.Sinead Kelly\*, Laura S. van Velzen\*, Sean Hatton, Lyubomir I. Aftanas, Andre Aleman, Bernhard T. Baune, Elodie Boudes, Ivan Brack, Yuqi Cheng, Colm Connolly, Udo Dannlowski, Michael Deppe, Thomas Frodl, David Glahn, Ian H. Gotlib, Nynke Groenewold, Dominik Grotegerd, Wenbin Guo, Tiffany Ho, Harald Kugel, Hiroshi Kunugi, Bill Kremin, Jim Lagopoulos, Meng Li, Tristram A. Lett, Nicholas G. Martin, Frank MacMaster, Andrew McIntosh, Quinn McLellan, Katie L. McMahon, Susanne Meinert, Tom Nickson, Miho Ota, Maria J. Portella, Matthew D. Sacchet, Philipp Saemann, Dan Stein, Rose Swansburg, Leonardo Tozzi, Nic J.A. van der Wee, Steven J.A. van der Werff, Dick J. Veltman, Henrik Walter, Martin Walter, Margaret J. Wright, Tony T. Yang, Greig I. de Zubicaray, Paul M. Thompson, Neda Jahanshad, Lianne Schmaal (2017). White Matter Microstructural Differences in Major Depression: Meta-analytic findings from ENIGMA-MDD DTI, **SOBP 2017**, San Diego, CA, USA.

### **OHBM 2017 (37 abstracts)**

965.Marc B. Harrison, Brandalyn C. Riedel, Dajiang Zhu, Gautam Prasad, Neda Jahanshad, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Tim Hahn, Claas Kähler, Jim Lagopoulos, Sean N. Hatton, Pedro Rosa, Christopher G. Davey, Ben J. Harrison, Jair D. Soares, Benson Mwang, Danai Dima, James Cole, Cynthia Fu, Nynke Groenewold, Dan Stein, Philipp Saemann, Paul M. Thompson (2017). Large-Scale Classification of Recurrent Major Depression in Adults using EPIC, **OHBM 2017**, Vancouver, Canada, June 2017.

966.Julio E. Villalon Reina, Chris Ching, Xiaoping Qu, Neda Jahanshad, Talia M. Nir, Conor Corbin, Deydeep Kothapalli, Leila Kushan, Therese van Amelsvoort, Geor Bakker, Linda Campbell, Kathryn McCabe, Tony Simon, Paul M. Thompson, Kosha Ruparel, Wendy R. Kates, Carrie E. Bearden (2017). Diffusion Tensor Imaging in 22q11.2 Deletion Syndrome: ENIGMA Working Group Meta-analysis Findings, **OHBM 2017**, Vancouver, Canada, June 2017.

967.Conor K. Corbin, Julio E. Villalon Reina, Faisal M. Rashid, Talia M. Nir, Yan Jin, Katie L. McMahon, Greig I. de Zubicaray, Margaret J. Wright, Neda Jahanshad, Paul M. Thompson (2017). Automatic Clustering of White Matter Fibers with Outlier Detection, **OHBM 2017**, Vancouver, Canada, June 2017.

968.Franklin W. Feingold, Kevin S. King, Paul M. Thompson, Meredith N. Braskie (2017). White Matter Hyperintensity Segmentation, **OHBM 2017**, Vancouver, Canada, June 2017.

969.Talia M. Nir, Jean-Paul Fouché, Hei Y. Lam, Beau Ances, Bruce J. Brew, Joga Chaganti, Christopher R.K. Ching, Katherine Clifford, Lucette Cysique, Christine Fennema-Notestine, Igor Grant, Vikash Gupta, Jaroslav Harezlak, Jodi Heaps, Charles Hinken, Jacqueline Hoare, John Joska, Kalpana Kallianpur, Taylor Kuhn, Christine Lebrun-Frenay, Andrew Levine, Lydiane Mondot, Beau Nakamoto, Bradford Navia, Robert Paul, Xavier Penneec, Eric S. Porges, Wasana Prasitsuebsai, Kanchana Pruksakaew, Cecilia Shikuma, Michael J. Taylor, April D. Thames, Victor Valcour, Lauren Wendelken, Matteo Vassallo, Adam J. Woods, Paul M. Thompson, Neda Jahanshad, Ronald A. Cohen, Dan J. Stein (2017). ENIGMA-HIV DTI: International Effects of CD4+ Count on White Matter Microstructure in HIV+ Adults, **OHBM 2017**, Vancouver, Canada, June 2017.

970.Brandalyn C. Riedel, Neda Jahanshad, David A. Bennett, Paul M. Thompson (2017). Towards Elucidating the Role of ABCA1 Variants in Mediating Risk for Alzheimer's Disease, **OHBM 2017**, Vancouver, Canada, June 2017.

971. Faisal M. Rashid, Vikash Gupta, Paul M. Thompson (2017). FiberNet: A Deep Learning Framework for Clustering of White Matter Tracts, **OHBM 2017**, Vancouver, Canada, June 2017.
972. Dajiang Zhu, Qingyang Li, Brandalyn C. Riedel, Neda Jahanshad, Derrek P. Hibar, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Matthew D. Sacchet, Ian H. Gotlib, Pedro Rosa, Geraldo Busatto Filho, Maristela S. Schaufelberger, Fabio L. S. Duran, Steven van der Werff, Nic van der Wee, Tony Yang, Tiffany Ho, Ben J. Harrison, Christopher G. Davey, Jieping Ye, Paul M. Thompson (2017). Collaborative Classification of Major Depressive Disorder via Distributed LASSO across 8 International Cohorts, **OHBM 2017**, Vancouver, Canada, June 2017.
973. Daniel Rinker, Neda Jahanshad, Derrek Hibar, Katie McMahon, Greig de Zubicaray, Margaret Wright, Paul M. Thompson (2017). Multiple Sclerosis Risk Variants Affect White Matter Integrity in Regions with High Gene Expression, **OHBM 2017**, Vancouver, Canada, June 2017.
974. Boris Gutman, Anjani Ragothaman, Dmitry Isaev, Paul M. Thompson (2017). Alzheimer's and Parkinson's Disease: Morphometric Concordance in Striatal Shape Alterations, **OHBM 2017**, Vancouver, Canada, June 2017.
975. Sinead Kelly\*, Laura S. van Velzen\*, Sean Hatton, Lyubomir I. Aftanas, Andre Aleman, Bernhard T. Baune, Elodie Boudes, Ivan Brack, Yuqi Cheng, Colm Connolly, Udo Dannlowski, Michael Deppe, Thomas Frodl, David Glahn, Ian H. Gotlib, Nynke Groenewold, Dominik Grotegerd, Wenbin Guo, Tiffany Ho, Harald Kugel, Hiroshi Kunugi, Bill Kremin, Jim Lagopoulos, Meng Li, Tristram A. Lett, Nicholas G. Martin, Frank MacMaster, Andrew McIntosh, Quinn McLellan, Katie L. McMahon, Susanne Meinert, Tom Nickson, Miho Ota, Maria J. Portella, Matthew D. Sacchet, Philipp Saemann, Dan Stein, Rose Swansburg, Leonardo Tozzi, Nic J.A. van der Wee, Steven J.A. van der Werff, Dick J. Veltman, Henrik Walter, Martin Walter, Margaret J. Wright, Tony T. Yang, Greig I. de Zubicaray, Paul M. Thompson, Neda Jahanshad, Lianne Schmaal (2017). White Matter Microstructural Differences in Major Depression: Meta-analytic Findings from ENIGMA-MDD DTI, **OHBM 2017**, Vancouver, Canada, June 2017.
976. Bhim M Adhikari, Neda Jahanshad, Dinesh Shukla, Jessica Turner, Dominik Grotegerd, Axel Krug, Els Fieremans, Jelle Veraart, Premika S. W. Boedhoe, Odile A. van den Heuvel, Jonathan Ipser, David Glahn, L. Elliot Hong, Paul M. Thompson, Peter Kochunov (2017). Developing ENIGMA Resting State fMRI Analysis Pipeline, **OHBM 2017**, Vancouver, Canada, June 2017.
977. Brian Donohue, Habib Ganjgahi, Thomas E. Nichols, Neda Jahanshad, Paul M. Thompson, Anderson Winkler, David Glahn, John Blangero and Peter Kochunov (2017). Acceleration of Imaging Genetics Analyses using Graphical Processing Units (GPUs) in SOLAR-Eclipse, **OHBM 2017**, Vancouver, Canada, June 2017.
978. Christopher R. K. Ching, Julio Villalon, Xiaoping Qu, Boris A. Gutman, Anjanibhargavi Ragothaman, Dmitry Isaev, Daqiang Sun, Rachel K. Jonas, Amy Lin, Leila Kushan, Therese van Amelsvoort, Geor Bakker, Wendy R. Kates, Linda E. Campbell, Kathryn L. McCabe, Eileen Daly, Maria Gudbrandsen, Clodagh Murphy, Declan Murphy, Michael Craig, Jacob Vorstman, Ania Fiksinski, Liz Gras, Kosha Ruparel, David Roalf, Raquel Gur, J. Eric Schmitt, Tony J. Simon, Naomi J. Goodrich-Hunsaker, Anne S. Bassett, Eva W. C. Chow, Nancy Butcher, Paul M. Thompson, Carrie E. Bearden; The ENIGMA 22q11.2 Working Group (2017). Subcortical Shape and Volumetric Findings from ENIGMA 22q11.2 Working Group (N=778), **OHBM 2017**, Vancouver, Canada, June 2017.
979. Christopher R.K. Ching, Boris A. Gutman, Derrek P. Hibar, Paul M. Thompson, Ole Andreassen for The ENIGMA Bipolar Disorder Working Group (2017). Subcortical Shape Analysis from the ENIGMA Bipolar Disorder Working Group (N=3,028), **OHBM 2017**, Vancouver, Canada, June 2017.

- 980.Emily L. Dennis, Negar Fani, Seth Disner, Dmitry Isaev, Stefan Du Plessis, Courtney Haswell, Jonathan Ipser, Sinead Kelly, Saskia Koch, Peter Kochunov, Mark Logue, Danielle R. Miller, Mark W. Miller, Katie McLaughlin, Matthew Peverill, Annerine Roos, Soraya Seedat, Dan J. Stein, Paul M. Thompson, Steven J.A. van der Werff, Nic J.A. van der Wee, Neda Jahanshad and Rajendra A. Morey for the PGC-ENIGMA PTSD Working Group (2017). Decreased White Matter Integrity in PTSD: Preliminary Results from the PGC-ENIGMA-PTSD Working Group, **OHBM 2017**, Vancouver, Canada, June 2017.
- 981.Lauren E. Salminen, Neda Jahanshad, Emily L. Dennis, Ilan Harpaz-Rotem, Ifat Levy, Chadi G. Abdallah, Kristen Wrocklage, Jonathan Ipser, Sheri Koopowitz, Dan J. Stein, Stefan Du Pleiss, Soraya Seedat, Leigh van den Heuvel, Philipp G. Saemann, Faisal Rashid, Chelsea Swanson, Paul M. Thompson, Rajendra A. Morey (2017). Hippocampal Subfields in PTSD: Preliminary Results from the ENIGMA PTSD Working Group, **OHBM 2017**, Vancouver, Canada, June 2017.
- 982.Kuhn, T, Jin, Y, Huang, C, Nir, T.M., Gullett, J.M., Jones, J., Singer, E.J., Shattuck, D., Jahanshad, N., Bookheimer, S.Y., Hinkin, C.H., Zhu, H., Thompson, P.M., Thames, A.D. (2017). The Joint Effect of Aging and HIV Infection on Integrity of the Corpus Callosum, **OHBM 2017**, Vancouver, Canada, June 2017.
- 983.Artemis Zavaliangos-Petropulu, Emily L. Dennis, Sophia Thomopoulos, Greg Ver Steeg, Talin Babikian, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2017). Variable Clustering Reveals Associations Among Longitudinal Change in Subcortical Brain Volumes, Cognitive Scores, and Interhemispheric Transfer Time in Pediatric Traumatic Brain Injury, **OHBM 2017**, Vancouver, Canada, June 2017.
- 984.Artemis Zavaliangos-Petropulu, Emily Dennis, Anjanibhargavi Ragothaman, Christopher Ching, Boris Gutman, David Tate, Jeffrey Lewis, Gerald York, Paul Thompson (2017). The Effects of Post-Traumatic Stress Disorder Severity on Subcortical Brain Regions in Military Service Members with Mild Traumatic Brain Injury, **OHBM 2017**, Vancouver, Canada, June 2017.
- 985.Fabrizio Pizzagalli, Joshua I. Faskowitz, Peter Kochunov, Paul M. Thompson, Neda Jahanshad (2017). Genetic Analysis of the Hemodynamic Response Function in Motor Areas in 680 Subjects, **OHBM 2017**, Vancouver, Canada, June 2017.
- 986.Fabrizio Pizzagalli, Vikash Gupta, Joshua I. Faskowitz, Peter Kochunov, Paul M. Thompson, Neda Jahanshad (2017). Local Exploration of Human Brain Folding, **OHBM 2017**, Vancouver, Canada, June 2017.
- 987.Dmitry Petrov, Boris A. Gutman, Joshua I Faskowitz, Neda Jahanshad, Paul M. Thompson (2017). Using Structural Connectomes for the Classification of Twin Zygosity and Sibling/Non-sibling Pairs, **OHBM 2017**, Vancouver, Canada, June 2017.
- 988.Zhou Zhuang, Yan Jin, Hanghang Tong, Lei Shi, Yang Chen, Paul Thompson (2017). Path-Embedded Structural Human Brain Network Generation and Classification of Alzheimer's Disease, **OHBM 2017**, Vancouver, Canada, June 2017.
- 989.Sonja de Zwarte, Rachel Brouwer, Manon Hillegers, Wiepke Cahn, Hilleke Hulshoff Pol, René Kahn, Kathryn Alpert, Lei Wang, Elvira Bramon, Fergus Kane, Robin Murray, Tomas Hajek, Martin Alda, Gloria Roberts, Philip Mitchell, Peter Schofield, Janice Fullerton, Anja Richter, Oliver Gruber, Aurora Bonvino, Alessandro Bertolino, Annabella Di Giorgio, Xavier Caseras, Ali Saffet Gonul, Mehmet Cagdas Eker, Fatma Simsek, Scott Fears, Carrie Bearden, David Glahn, Theo van Erp, Paul Thompson, Ole Andreassen, Jessica Turner, Neeltje van Haren for the ENIGMA-Relatives Group (2017). ENIGMA-Relatives – Brain Volumes in First-Degree Relatives of Schizophrenia and Bipolar Patients, **OHBM 2017**, Vancouver, Canada, June 2017.



990. Jurong Ding, Xin Ding, Bo Hua, Qingsong Wang, Paul Thompson (2017). Functional Connectivity Alterations in Patients with Ischemic White Matter Lesions, **OHBM 2017**, Vancouver, Canada, June 2017.
991. Je-Yeon Yun, Premika S.W. Boedhoe, Yoshinari Abe, Stephanie H. Ameis, Paul D. Arnold, Marcelo C. Batistuzzo, Francesco Benedetti, Jan C. Beucke, Irene Bollettini, Anushree Bose, Silvia Brem, Anna Calvo, Yuqi Cheng, Kang Ik K. Cho, Sara Dallspezia, Damiaan Denys, Jean-Paul Fouché, Mónica Giménez, Patricia Gruner, Gregory L. Hanna, Derrek P. Hibar, Marcelo Q. Hoexter, Hao Hu, Chaim Huyser, Keisuke Ikari, Neda Jahanshad, Norbert Kathmann, Christian Kaufmann, Kathrin Koch, Luisa Lazaro, Christine Lochner, Paulo Marques, Rachel Marsh, Ignacio Martínez-Zalacáin, David Mataix-Cols, José M. Menchón, Luciano Minuzzi, Pedro Morgado, Pedro Moreira, Takashi Nakamae, Tomohiro Nakao, Janardhanan C. Narayanaswamy, Fabrizio Piras, Federica Piras, Christopher Pittenger, Y.C. Janardhan Reddy, Joao R. Sato, H. Blair Simpson, Noam Soreni, Carles Soriano-Mas, Gianfranco Spalletta, Michael C. Stevens, Philip R. Szeszko, David F. Tolin, Ganesan Venkatasubramanian, Susanne Walitza, Zhen Wang, Guido A. van Wingen, Jian Xu, Xiufeng Xu, Qing Zhao, ENIGMA OCD Working Group, Paul M. Thompson, Dan J. Stein, Odile A. van den Heuvel, Jun Soo Kwon (2017). An ENIGMA-OCD Working Group Meta-Analysis of Individualized Cortical-Subcortical Structural Covariance in 2,923 Participants, **OHBM 2017**, Vancouver, Canada, June 2017.
992. Christina P. Boyle, Greg Fleishman, Oscar L. Lopez, James T. Becker, Paul M. Thompson (2017). Comparing Nonlinear Registration Methods to Assess Brain Volume Loss with Aging, **OHBM 2017**, Vancouver, Canada, June 2017.
993. Liza van Eijk, Lachlan T. Strike, Katie L. McMahon, Paul M. Thompson, Greig I. de Zubicaray, Margaret J. Wright, Brendan P. Zietsch (2017). Brain Masculinity and its Relation to Autism Spectrum Traits, **OHBM 2017**, Vancouver, Canada, June 2017.
994. Aggie McMahon, Paul Thompson (2017). Enhancing Neuro Imaging Genetics through Meta Analysis: Collaborations for Reproducible Neuroscience, **OHBM 2017**, Vancouver, Canada, June 2017.
995. Daniel Moyer, Boris A. Gutman, Neda Jahanshad, Paul M. Thompson (2017). Connectivity Based Parcellation of the Cortex, **OHBM 2017**, Vancouver, Canada, June 2017.
996. Theo G.M. van Erp, Derrek P. Hibar, Esther Walton, Lianne Schmaal, Wenhau Jiang, Paul. M. Thompson, and Jessica A. Turner for the ENIGMA Schizophrenia Working Group (2017). Cortical Abnormalities in Schizophrenia: An ENIGMA Schizophrenia Working Group Meta-Analysis, **OHBM 2017**, Vancouver, Canada, June 2017.
997. George Karkashadze, Anatoly Anikin, Kirill Savostyanov, Vladimir Smirnov, Anait Gevorkyan, Olga Komarova, Olga Gundobina, Nato Vashakmadze, Andrey Surkov, Magda Karkashadze, Andrey Getman, Olga Kozhevnikova, Alexandr Pushkov, Anna Veselova, Dmitry Kapilushniy, Tina Gogberashvili, Goar Movsisyan, Liliya Osipova, Julia Ermolina, Tatiana Konstantinidi, Anastasia Solovieva, Alexey Firumyants, Mikhail Belyaev, Ekaterina Khrameeva, Boris A. Gutman, Vladimir L. Zelman, Paul M. Thompson, Alexander Baranov, Leyla Namazova-Baranova (2017). Cortical Morphometry in Gaucher Disease: Findings from the ENIGMA Storage Disease working group, **OHBM 2017**, Vancouver, Canada, June 2017.
998. Leyla Namazova-Baranova, George Karkashadze, Anatoly Anikin, Kirill Savostyanov, Vladimir Smirnov, Anait Gevorkyan, Olga Komarova, Olga Gundobina, Nato Vashakmadze, Andrey Surkov, Magda Kakrkashadze, Andrey Getman, Olga Kozhevnikova, Alexandr Pushkov, Anna Veselova, Dmitry Kapilushniy, Tina Gogberashvili, Goar Movsisyan, Liliya Osipova, Julia Ermolina, Tatiana Konstantinidi, Anastasia Solovieva, Alexey Firumyants, Mikhail Belyaev, Ekaterina Khrameeva, Boris Gutman, Vladimir Zelman, Paul Thompson, Alexandr Baranov, for the ENIGMA Storage Diseases Working Group (2017). Cortical

Morphometry and White Matter Integrity in Children with Hepatic Glycogen Storage Disease, **OHBM 2017**, Vancouver, Canada, June 2017.

999.Liang Zhan, Lisanne Jenkins, Ouri Wolfson, Johnson GadElkarim, Paul M. Thompson, Olusola Ajilore, Moo Chung, Alex Leow (2017). The Power of Negative Thinking: A Serious Treatment of Non-Trivial Edges, **OHBM 2017**, Vancouver, Canada, June 2017.

1000.Philipp Saemann, David Hoehn, Michael Czisch, Neda Jahanshad, Christopher Whelan, Derrek Hibar, Laura van Velzen, Laura Han, Ilya Veer, Henrik Walter, Katharina Wittfeld, Dick Veltman, Paul Thompson, Lianne Schmaal (2017). ENIGMA-MDD hippocampal subfield analysis of first episode and recurrent Major Depressive Disorder, **OHBM 2017**, Vancouver, Canada, June 2017.

1001.Liang Zhan, Lei Guo, Jin Yan, Emily Marzofka, Melissa Lamar, Alex D. Leow, Paul M. Thompson (2017). Brain Differential Structural Connectome, **OHBM 2017**, Vancouver, Canada, June 2017.

### **AAIC 2017**

1002.Nelly Joseph-Mathurin, Yi Su, Tyler M. Blazey, Mateusz Jasielec, Andrei Vlassenko, Karl Friedrichsen, Gloria J. Guzman, Christopher J. Owen, Brian A Gordon, Russ C. Hornbeck, Lisa Cash, Beau M. Ances, Marcus E. Raichle, Adam Brickman, Virginia Buckles, Nigel Cairns, Carlos Cruchaga, Anne Fagan, Alison Goate, Clifford Jack, William Klunk, Robert A. Koeppe, Dan S. Marcus, Richard Mayeux, Eric McDade, Katrina Paumier, John Ringman, Andrew J. Saykin, Paul M. Thompson, Chengjie Xiong, John C. Morris, Randall J. Bateman, Tammie L.S. Benzinger, and the Dominantly Inherited Alzheimer Network (2017). Utility of perfusion PET models as measure of neurodegeneration in an autosomal dominant Alzheimer's disease population: report from the DIAN study, AAIC 2017, London, UK, July 2017.

1003.J Gunter, K Thostenson, B Borowski, R Reid, A Arani, MA Bernstein, NC Fox, D Thomas, C Decarli, D Tosun, PM Thompson, M Weiner, CR Jack, Jr. (2017). ADNI-3 MRI Protocol, AAIC 2017, London, UK, July 2017.

1004.Robert I. Reid, PhD<sup>1</sup>, Bret J Borowski, R.T.(R)<sup>1</sup>, Kaely B. Thostenson, R.T.(R)<sup>1</sup>, Arvin Arani, PhD<sup>1</sup>, David L. Thomas, PhD<sup>2</sup>, David M. Cash, PhD<sup>2</sup>, Gary H. Zhang, PhD<sup>2</sup>, Jeffrey L. Gunter, PhD<sup>1</sup>, Matthew A. Bernstein, PhD<sup>1</sup>, Charles S. DeCarli, MD<sup>3</sup>, Nick C. Fox, MD<sup>2</sup>, Paul M. Thompson, PhD<sup>4</sup>, Duygu Tosun, PhD<sup>5</sup>, Michael Weiner, MD<sup>6</sup> and Clifford R. Jack Jr., MD (2017). **The ADNI3 Diffusion MRI Protocol – Basic + Advanced**, AAIC 2017, London, UK, July 2017.

### **SOBP 2017**

1005.Emily L. Dennis<sup>1</sup>, Negar Fani<sup>2</sup>, Seth Disner<sup>3</sup>, Dmitry Isaev<sup>1</sup>, Chadi Abdallah<sup>4</sup>, Maria Densmore<sup>5</sup>, Stefan Du Plessis<sup>6</sup>, Jessie L. Frijling<sup>7</sup>, Staci Gruber<sup>8</sup>, Courtney Haswell<sup>9</sup>, Jonathan Ipser<sup>10</sup>, Milissa Kaufman<sup>8</sup>, Sinead Kelly<sup>1</sup>, Saskia B.J. Koch<sup>7,11</sup>, Peter Kochunov<sup>12</sup>, Ruth Lanius<sup>5</sup>, Lauren AM Lebois<sup>7</sup>, Mark Logue<sup>13</sup>, Danielle R. Miller<sup>13,14</sup>, Mark W. Miller<sup>13,14</sup>, Katie McLaughlin<sup>15</sup>, Laura Nawijn<sup>7,16</sup>, Miranda Olf<sup>7</sup>, Matthew Peverill<sup>15</sup>, Kerry Ressler<sup>7</sup>, Annerine Roos<sup>17</sup>, Soraya Seedat<sup>6</sup>, Dan J. Stein<sup>10,17</sup>, Paul M. Thompson<sup>1</sup>, Sherry Winternitz<sup>7</sup>, Jonathan Wolff<sup>7</sup>, Steven J.A. van der Werff<sup>18</sup>, Nic J.A. van der Wee<sup>18</sup>, D.J.Veltman<sup>16</sup>, Mirjam van Zuiden<sup>7</sup>, Neda Jahanshad<sup>\*</sup> and Rajendra A. Morey<sup>\*</sup> for the PGC-ENIGMA PTSD Working Group (2017). Decreased White Matter

Integrity in PTSD: Preliminary Results from the PGC-ENIGMA PTSD Working Group, submitted to SOBP (late breaking abstract).

#### IAP 2017

1006. Watsamon Jantarabenjakul<sup>1,2</sup>, Jesdaporn Srisamer<sup>2</sup>, Tuangtip Theerawit<sup>2</sup>, Jiratchaya Sophonphan<sup>3</sup>, Montida Veeravigom<sup>1</sup>, Weerasak Chonchaiya<sup>1</sup>, Thanyawee Puthanakit<sup>1,2</sup>, Jintanat Anantaworanich<sup>4,5</sup>, Neda Jahanshad<sup>6</sup>, Paul M. Thompson<sup>6</sup>, Kathleen Malee<sup>7</sup>, Chitsanu Pancharoen<sup>1,2</sup> on behalf of DOET study (2017). **Neurodevelopmental and Behavioral Outcomes in Early Treated HIV-Infected Young Children**, IAS Pediatric Infectious Disease workshop, 2017.

#### SFN 2017 (4 abstracts) and WCPG 2017

1007. Martine Hoogman<sup>1</sup>, Marieke Klein<sup>1</sup>, Janita Bralten<sup>1</sup>, Elena Shumskaya<sup>1</sup>, Raymond K. Walters<sup>2,3,4</sup>, Jason L. Stein<sup>5</sup>, Hieab H. Adams<sup>6,7</sup>, the ENIGMA-ADHD Working Group, Enhancing Neuro Imaging Genetics through Meta Analysis (ENIGMA) Consortium, Neurology Working Group of the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium, ADHD Working Group of the Psychiatric Genomics Consortium, iPSYCH consortium, Anders Børglum<sup>8</sup>, Sarah E. Medland<sup>9</sup>, Jan Buitelaar<sup>10,11</sup>, Alejandro Arias-Vasquez<sup>1,11,12</sup>, Steve Faraone<sup>13,14</sup>, Philip Shaw<sup>15,16</sup>, Paul M. Thompson<sup>17</sup>, Barbara Franke (2017). Brain alterations in ADHD and their link to genetics, SFN 2017.

1008. Brandalyn C. Riedel<sup>1,2</sup>, David Bennett<sup>3</sup>, Neda Jahanshad<sup>1,2</sup> & Paul M. Thompson (2017). **Towards Multivariate Genetic Models Predicting Alzheimer's Disease Risk**, SFN 2017.

1009. Paul M. Thompson, M. Agnes McMahon, Neda Jahanshad, for the ENIGMA Consortium (2017). ENIGMA: Imaging & Genetics of 18 Brain Diseases in 50,000 People Worldwide, SFN 2017.

1010. Mark S. Shiroishi\*, Vikash Gupta\*, Joshua Faskowitz, Bavrina Bigjahan, Steven Y. Cen, Darryl H. Hwang, Alexander Lerner, Chia-Shang J. Liu, Orest B. Boyko, Paul M. Thompson, Neda Jahanshad (2017). **Towards creating a probabilistic atlas for contrast-enhanced T1-weighted MR images of the brain: a pilot study**, SFN 2017.

1011. Thompson PM (2017). ENIGMA, Big Data, and Neuroimaging Genetics in 50,000 People from 35 Countries: Challenges and Lessons Learned, **WCPG symposium abstract**, submitted.

1012. Villalon JE, ..., **Thompson PM**, Bearden C (2017). Diffusion MRI in 22q11.2 Deletion Syndrome: ENIGMA working group meta-analysis findings, 39th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC'17) to be held at the International Convention Center, JeJu Island, S. Korea, from 11-15 July 2017.

#### SciPy 2017

1013. Dmitry Petrov, Alexander Ivanov, Daniel Moyer, **Paul Thompson**, Mikhail Belayev (2017). Reskit — a library for creating and curating reproducible pipelines for scientific machine learning, Austin, TX, USA, July 2017.

#### Neurotrauma 2017

1014. **Dennis EL**, Babikian T, Alger J, Rashid F, Villalon-Reina JE, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2017). Magnetic Resonance

Spectroscopy Along Tract in Pediatric Traumatic Brain Injury. *Annual Symposium of the National Neurotrauma Society*: Park City, UT.

1015. **Dennis EL**, Rashid F, Ellis MU, Babikian T, Villalon-Reina JE, Vlasova R, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2017). Prolonged White Matter Degeneration in a Subset of Pediatric TBI Patients. *Annual Symposium of the National Neurotrauma Society*: Park City, UT.

#### **INS 2018**

1016. Lauren Salminen, Dick Veltman, Saskia Koch, Miriam van Zuiden, Miranda Olf, Dan Stein, Sheri Koopowitz, Jonathan Ipser, Kerry Ressler, Jennifer Stevens, Tanja Jovanovic, Sanne van Rooij, Steven van der Werff, Lauren Lebois, Seth Disner, Stefan Du Plessis, Soroya Seedat, Leigh van den Heuvel, Richard Bryant, Mayuresh Korgaonkar, Theo Van Erp, Israel Liberzon, Xin Wang, Tony King, Elbert Geuze, Katie McLaughlin, Chadi Abdallah, Kristen Wrocklage, Ilan Harpaz-Rotem, Ifat Levy, Philipp Saemann, Neda Jahanshad, Paul Thompson, Raj Morey (2017). **Hippocampal Subfield Abnormalities in Current and Lifetime PTSD: International Analysis from the PGC-ENIGMA PTSD Working Group, INS 2018.**
1017. Sook-Lei Liew<sup>1</sup>, PhD, OTR/L, Neda Jahanshad<sup>1</sup>, PhD, Julia Anglin<sup>1</sup>, BS, Panthea Heydari<sup>1</sup>, BS, Nima Khoshab<sup>2</sup>, MS, Bokkyu Kim<sup>1</sup>, MS, PT, William Nakamura<sup>1</sup>, BS, Heng Nhoung<sup>1</sup>, BA, Jane Rondina<sup>3</sup>, PhD, Catherine Tran<sup>1</sup>, BS, Lisa Aziz-Zadeh<sup>1</sup>, PhD, Michael Borich<sup>4</sup>, PhD, DPT, Lara Boyd<sup>5</sup>, PhD, PT, Michael A. Dimyan<sup>6</sup>, MD, Elsa Ermer<sup>6</sup>, PhD, Catherine E. Lang<sup>7</sup>, PhD, PT, Junning Li<sup>1</sup>, PhD, Thomas Nichols<sup>8</sup>, PhD, Pamela Roberts<sup>9</sup>, PhD, OTR/L, Nerses Sanossian<sup>1</sup>, MD, Surjo Soekadar<sup>10</sup>, MD, Nick Ward<sup>3</sup>, MD, Junping Wang<sup>11</sup>, MD, PhD, Lars T. Westlye<sup>12</sup>, PhD, Carolee J. Winstein<sup>1</sup>, PhD, PT, FAPTA, George F. Wittenberg<sup>6</sup>, MD, PhD, Steven C. Cramer<sup>2</sup>, MD, & Paul M. Thompson<sup>1</sup>, PhD (2016). **Subcortical Volumes Associated with Post-stroke Motor Performance Vary Across Impairment Severity, Time Since Stroke, and Lesion Laterality: An ENIGMA Stroke Recovery Analysis, International Stroke Conference, 2017.**

#### **ICAD 2017**

1018. Mendez MF, Daianu M, Melrose RJ, Jimenez EE, Thompson PM (2017). **Diffusion Tensor Imaging Structural Connectomes in Early-Onset Alzheimer's Disease Phenotypes, ICAD 2017, London, UK, July 2017.**

#### **AAN 2018 (American Academy of Neurology)**

1019. Mark Shiroishi, Vikash Gupta, Joshua Faskowitz, Bavrina Bigjahan, Steven Cen, Faisal Rashid, Darryl Hwang, Alexander Lerner, Orest Boyko, Chia-Shang Jason Liu, Meng Law, Paul Thompson, Neda Jahanshad (2018). The ENIGMA Cancer and Chemotherapy Working Group and Cancer-Related Cognitive Impairment, **AAN 2018**, Los Angeles, CA.
1020. Meral Tubi, Franklin Feingold, Fabian Corlier, Nicki Mostowfi, Paul Thompson, Meredith Braskie (2018). VEGF's Relationship to Brain Aging Biomarkers, **AAN 2018**, Los Angeles, CA.
1021. Conor Corbin, Vikash Gupta, Talia M. Nir, Julio E. Villalon, Faisal Rashid, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2018). White Matter Changes in

Parkinson's Disease Mapped with a Novel Tract Mapping Algorithm, **AAN 2018**, Los Angeles, CA.

- 1022.Brandalyn C. Riedel, Mario F. Mendez, Madelaine Daianu, Randy Desarzent, Rebecca J. Melrose, Elvira E. Jimenez, Paul M. Thompson (2018). White matter connectivity differences between typical amnesic and variant non-amnesic individuals with early-onset Alzheimer's disease (EOAD), **AAN 2018**, Los Angeles, CA.
- 1023.Boris A. Gutman, Joanna Bright, Christian Rummel, Cristiane S. Rocha, Ines Debove, Clarissa Yasuda, Rachel Paes Guimaraes, Felipe Bergo, Anelyssa D'Abreu, Kathleen Poston, Roland Wiest, Fernando Cendes, Paul M. Thompson, Ysbrand van der Werf, for the ENIGMA Parkinson's Disease Working Group (2018). Widespread Cortical Thinning in Parkinson's Disease: Findings from the ENIGMA-Parkinson's Disease Working Group, **AAN 2018**, Los Angeles, CA.
- 1024.Talia Nir, Sophia I. Thomopoulos, Neda Jahanshad, Robert Reid, Matt Bernstein, Bret Borowski, Clifford Jack, Jr., Michael Weiner, Paul Thompson (2018). Diffusion MRI Measures from the Updated ADNI3 Protocol are Associated with Cognitive Impairment in the Elderly, **AAN 2018**, Los Angeles, CA.
- 1025.Faisal Rashid, Emily L. Dennis, Monica U. Ellis-Blied, Talin Babikian, Jeffry Alger, Julio E. Villalon-Reina, Yan Jin, Alexander Olsen, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Paul M. Thompson, Robert F. Asarnow (2018). Understanding Divergent Trajectories in Pediatric Patients with Moderate to Severe Traumatic Brain Injury, **AAN 2018**, Los Angeles, CA.
- 1026.Emily L. Dennis, Elisabeth A. Wilde, Randall S. Scheibel, Maya Troyanskaya, Carmen Velez, Benjamin S.C. Wade, Ann Marie Drennon, Gerald E. York, Erin D. Bigler, Tracy J. Abildskov, Brian A. Taylor, Carlos A. Jaramillo, Blessen Eapen, Heather Belanger, Mary R. Newsome, Harvey S. Levin, Sidney R. Hinds II, William C. Walker, Paul M. Thompson, David F. Tate (2018). ENIGMA Military Brain Injury: A Preliminary Meta-Analysis of Diffusion MRI Measures, **AAN 2018**, Los Angeles, CA.

#### **ASNR 2017 - American Society of Neurorehabilitation**

- 1027.Artemis Zavaliangos-Petropulu<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Christopher R.K. Ching<sup>1,2</sup>, Dmitry Isaev<sup>1</sup>, Anjanibhargavi Ragothaman<sup>1</sup>, Boris Gutman<sup>1</sup>, Bokkyu Kim<sup>1</sup>, Andrew D. Robertson<sup>3</sup>, Jane Maryam Rondina<sup>4</sup>, Lisa Aziz-Zadeh<sup>1</sup>, Winston D. Byblow<sup>5</sup>, Steven C. Cramer<sup>6</sup>, Martin Domin<sup>7</sup>, Steven A. Kautz<sup>8</sup>, Amy Kuceyeski<sup>9</sup>, Catherine E. Lang<sup>10</sup>, Jingchun Liu<sup>11</sup>, Martin Lotze<sup>7</sup>, Bradley J. MacIntosh<sup>3</sup>, Ander Ramos-Murguialday<sup>12</sup>, Pamela Roberts<sup>13</sup>, Cathy M. Stinear<sup>5</sup>, Gregory Thielman<sup>14</sup>, Junping Wang<sup>11</sup>, Carolee Winstein<sup>1</sup>, George Wittenberg<sup>15</sup>, Chunshui Yu<sup>11</sup>, Paul M Thompson<sup>1</sup>, Sook-Lei Liew (2017). Subcortical Brain Shape Differences Relate to Post-Stroke Motor Behavior, **American Society of Neurorehabilitation Conference**, 2017.

## CINP 2018

1028.Boedhoe, P.S.W., Yun, J., Piras, F., the ENIGMA OCD working group, Kwon, J., Spalletta, G., Thompson, P.M., Stein, D.J., van den Heuvel, O.A. (2018). **Neuroimaging of Obsessive-Compulsive Disorder: Collaborative Findings from the ENIGMA-OCD working group**, CINP 2018, June 16-19 2018, Vienna, Austria.

## OHBM 2018 (28 abstracts; 20 from IGC, 8 additional abstracts from ENIGMA)

1029.Daniel Moyer, Greg ver Steeg, Paul M. Thompson (2018). How many tracks should we sample?, **OHBM 2018**, Singapore.

1030.Talia M. Nir, Hei Y. Lam, Arvin Saremi, Thanyawee Puthanakit, Linda Aurpibul, Robert Paul, Stephen Kerr, Katherine Clifford, Sukalya Lerdlum, Mantana Pothisri, Pannee Visrutaratna, Pope Kosalaraksa, Tulathip Suwanlerk, Paul M. Thompson, Victor G. Valcour, Jintanat Ananworanich, Neda Jahanshad, on behalf of the SEARCH 012 and PREDICT Study Groups (2018). Altered Brain Developmental Trajectories in Children with Perinatally Acquired HIV, **OHBM 2018**, Singapore.

1031.Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, MiHyun Jang, Tejal Patted, Victoria Knight, Chris Ching, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). ENIGMA-ODS: An Informatics Approach to Global Neuroscience from the ENIGMA Consortium, **OHBM 2018**, Singapore.

1032.Alyssa H. Zhu, Arvin Saremi, Paul M. Thompson, Neda Jahanshad (2018). Automated Multi-Modal Segmentation of the Midsagittal Corpus Callosum to Map Structural Development, **OHBM 2018**, Singapore.

1033.Sophia Thomopoulos, Talia Nir, Neda Jahanshad, Robert Reid, Matt Bernstein, Bret Borowski, Clifford Jack, Jr., Michael Weiner, Paul Thompson (2018). ADNI3 dMRI: White Matter Microstructure and its Relation to Alzheimer's Disease Severity Measures, **OHBM 2018**, Singapore.

1034.Watsamon Jantarabenjakul, Neda Jahanshad, Talia M.Nir<sup>3</sup>, Alyssa H. Zhu<sup>3</sup>, Arvin Saremi<sup>3</sup>, Conor Corbin<sup>3</sup>, Jesdaporn Srisamer, Tuangtip Theerawit<sup>2</sup>, Jiratchaya Sophonphan<sup>2</sup>, Montida Veeravigom<sup>1</sup>, Weerasak Chonchaiya<sup>1</sup>, Netsiri Dumrongpisutikul<sup>4</sup>, Pipat Saeyap<sup>5</sup>, Pannika Vorapaluk<sup>5</sup>, Thanyawee Puthanakit<sup>1,2</sup>, Jintanat Anantaworanich<sup>6,7</sup>, Kathleen Malee<sup>8</sup>, Paul M. Thompson<sup>3</sup>, Chitsanu Pancharoen<sup>1,2</sup> on behalf of DOET study (2018). Corpus callosum and gross motor deficit in early treated perinatally HIV-infected children, **OHBM 2018**, Singapore.

1035.Neda Jahanshad and the ENIGMA Cortical GWAS Consortium (2018). The ENIGMA Cortical GWAS Collaboration identifies 81 genetic loci influencing cortical structure, **OHBM 2018**, Singapore.

1036.Boris A. Gutman, Joanna Bright, Christian Rummel<sup>3</sup>, Cristiane S. Rocha<sup>5</sup>, Ines Debove<sup>4</sup>, Clarissa Yasuda<sup>6</sup>, Rachel Paes Guimaraes<sup>5</sup>, Felipe P. G. Bergo<sup>5</sup>,

- Anelyssa D'Abreu<sup>5,7</sup>, Kathleen Poston<sup>8</sup>, Roland Wiest<sup>3</sup>, Fernando Cendes<sup>5</sup>, Chris Vriend<sup>2,9</sup>, Premika Boedhoe<sup>2,9</sup>, Henk W. Berendse<sup>10</sup>, Odile A. van den Heuvel<sup>2,9</sup>, Anjani Ragothaman<sup>1</sup>, Neda Jahanshad<sup>1</sup>, Christopher R.K. Ching<sup>1</sup>, Paul M. Thompson<sup>1</sup>, Ysbrand van der Werf<sup>2</sup> (2018). Cortical Morphometry Effects of Parkinson's Disease: A Preliminary ENIGMA-Parkinson's Study, **OHBM 2018**, Singapore.
1037. Brandalyn Riedel, Paul Thompson, Alzheimer's Disease Neuroimaging Initiative (ADNI) (2018). Preliminary analyses on genetic variants associated with predicted brain age in ADNI, **OHBM 2018**, Singapore.
1038. Mark S. Shiroishi, Alyssa H. Zhu, Tanya Dorff, Bavrina Bigjahan, Alexander Lerner, Chia-Shang Jason Liu, Paul M. Thompson, Neda Jahanshad (2018). Brain morphometry in prostate cancer survivors from the ENIGMA Cancer & Chemotherapy Working Group, **OHBM 2018**, Singapore.
1039. Christopher R.K. Ching, Paul M. Thompson, Carrie E. Bearden, for the ENIGMA 22q11.2 Deletion Syndrome Working Group (2018). Convergent subcortical brain alterations in 22q11.2 deletion syndrome and schizophrenia, **OHBM 2018**, Singapore.
1040. Qifan Yang, Gennady V. Roshchupkin, Wiro J. Niessen, Sarah E. Medland, Alyssa H. Zhu, Paul M. Thompson, and Neda Jahanshad (2018). New 2StepLMM Using Left and Right Volumes as Repeat Measurements Improves Heritability Estimates, **OHBM 2018**, Singapore.
1041. Linda Ding, Alyssa Zhu, Arvin Saremi, Joshua Faskowitz, Asta Haberg, Paul Thompson, Neda Jahanshad (2018). Voxelwise Meta-Analysis of Brain Structural Association with Polygenic Risk for Alzheimer's Disease, **OHBM 2018**, Singapore.
1042. Fabrizio Pizzagalli, Guillaume Auzias, Jean-Francois Mangin, Denis Riviere, Peter Kochunov, Paul M. Thompson, Neda Jahanshad (2018). Improvement of sulcus-based morphometry sensitivity through new sulci aggregation, **OHBM 2018**, Singapore.
1043. Lauren E. Salminen, Alyssa H. Zhu, Brandalyn C. Riedel, Christopher R. K. Ching, Victoria Knight, Arvin Saremi, Faisal Rashid, Sophia I. Thomopoulos, Marc B. Harrison, Anjanibhargavi Ragothaman, Sarah E. Medland, Paul M. Thompson, Neda Jahanshad (2018). Neuroimaging Correlates of Maternal Smoking Later in Life: Analysis of the UK Biobank Cohort, **OHBM 2018**, Singapore.
1044. Vishal Patel, Paul M. Thompson, Arthur W. Toga (2018). A Deep Learning Approach to Spherical Deconvolution for Fiber Orientation in HARDI, **OHBM 2018**, Singapore.

1045. Natalia Shatokhina, Jason Stein, Neda Jahanshad, Sarah Medland, Katrina Grasby, Derrek Hibar, Janita Bralten, Barbara Franke, Peter Kochunov, Paul M. Thompson (2018). ENIGMA-Vis: A Portal to View Genetic Effects on the Human Brain Based on Large-Scale GWAS, **OHBM 2018**, Singapore.
1046. Emily L. Dennis, Elisabeth A. Wilde, Mary R. Newsome<sup>3,4</sup>, Randall S. Scheibel<sup>3,4</sup>, Maya Troyanskaya, Carmen Velez<sup>6</sup>, Benjamin S.C. Wade<sup>6,7</sup>, Ann Marie Drennon<sup>8</sup>, Gerald E. York<sup>9</sup>, Erin D. Bigler<sup>10</sup>, Tracy J. Abildskov<sup>10</sup>, Brian A. Taylor<sup>3,4,11</sup>; Carlos A. Jaramillo, Blessen Eapen<sup>12</sup>, Heather Belanger<sup>13,14</sup>, Rajendra Morey<sup>15</sup>, Courtney Haswell<sup>15</sup>, Harvey S. Levin, Sidney R. Hinds II<sup>16</sup>; William C. Walker<sup>8,17,18</sup>, Paul M. Thompson, David F. Tate (2018). Meta-Analysis of Diffusion MRI in the ENIGMA Military Brain Injury Group: Preliminary Results, **OHBM 2018**, Singapore.
1047. Emily L. Dennis, Negar Fani, Seth Disner, Dmitry Isaev<sup>1</sup>, Stefan Du Plessis<sup>4</sup>, Courtney Haswell<sup>5</sup>, Jonathan Ipser<sup>6</sup>, Sinead Kelly<sup>1</sup>, Saskia Koch<sup>7</sup>, Peter Kochunov<sup>8</sup>, Mark Logue<sup>9</sup>, Danielle R. Miller<sup>9,10</sup>, Mark W. Miller<sup>9,10</sup>, Katie McLaughlin<sup>11</sup>, Matthew Peverill<sup>11</sup>, Annerine Roos<sup>12</sup>, Soraya Seedat<sup>4</sup>, Dan J. Stein<sup>6</sup>, Paul M. Thompson<sup>1</sup>, Steven J.A. van der Werff<sup>13</sup>, Nic J.A. van der Wee<sup>13</sup>, Neda Jahanshad<sup>1\*</sup> and Rajendra A. Morey<sup>5\*</sup> for the PGC-ENIGMA PTSD Working Group (2018). Decreased White Matter Integrity in PTSD: Preliminary Results from the PGC-ENIGMA-PTSD Working Group, **OHBM 2018**, Singapore.
1048. Julio Villalón-Reina, Kenia Martínez, Xiaoping Qu, Talia M. Nir, Christopher Ching, Neda Jahanshad, Deydeep Kothapalli, Conor Corbin, Daqiang Sun, Amy Lin, Jennifer Forsyth, Leila Kushan, Ariana Vajdi, Maria Jalbrzikowski, Laura Hansen, Rachel K. Jonas, Therese van Amelsvoort, Geor Bakker, Wendy R. Kates, Kevin M. Antshel, Wanda Fremont, Linda E. Campbell, Kathryn L. McCabe, Eileen Daly, Maria Gudbrandsen, Clodagh Murphy, Declan Murphy, Michael Craig, Kieran C Murphy, Jacob Vorstman, Ania Fiksinski, Sanne Schuite-Koops, Kosha Ruparel, David Roalf, Raquel E. Gur, J. Eric Schmitt, Beverly Emanuel, Donna M. McDonald-McGinn, Tony J Simon, Naomi J. Goodrich-Hunsaker, Courtney A. Durdle, Joanne Doherty, Adam Cunningham, Marianne van den Bree, David Linden, Michael Owen, Hayley Moss, Paul M. Thompson, Carrie E. Bearden (2018). Highly Atypical White Matter in 22q11.2 Deletion Syndrome: an ENIGMA-DTI Consortium Study, **OHBM 2018**, Singapore.
1049. Nynke A. Groenewold, Janna Marie Bas-Hoogendam, Alyssa R. Amod, Laura van Velzen<sup>5</sup>, Moji Aghajani, Dick J. Veltman<sup>5</sup>, Courtney A. Filippi<sup>6</sup>, Andrea L. Gold<sup>6</sup>, Daniel S. Pine, Christopher R.K. Ching<sup>7</sup>, Neda Jahanshad<sup>7</sup>, Paul M. Thompson<sup>7</sup>, Dan J. Stein, and Nic J.A. van der Wee, on behalf of the ENIGMA-Anxiety Working Group (2018). Analyzing subcortical volumes in adult and pediatric social anxiety disorder in ENIGMA-Anxiety, **OHBM 2018**, Singapore.
1050. Xiang-Zhen Kong, Samuel R. Mathias, Tulio Guadalupe, ENIGMA Laterality Working Group, Karolinska Schizophrenia Project (KaSP), David C. Glahn, Barbara



Franke, Fabrice Crivello, Nathalie Tzourio-Mazoyer, Simon E. Fisher, Paul M. Thompson, Clyde Francks (2018). Mapping Cortical Brain Asymmetry in 17,141 Healthy Individuals Worldwide via the ENIGMA consortium, **OHBM 2018**, Singapore.

1051. Yann Chye, Scott Mackey, Boris Gutman<sup>3</sup>, Paul Thompson<sup>3</sup>, Anne Uhlmann<sup>2,4</sup>, Patricia Conrod<sup>5</sup>, Hugh Garavan<sup>2</sup>, & ENIGMA Addiction Working Group (2018). Mapping subcortical surface morphometry across substance use: An ENIGMA addiction working group study, **OHBM 2018**, Singapore.

1052. Bhim M. Adhikari, Neda Jahanshad, Dinesh Shukla<sup>1</sup>, Els Fieremans<sup>3</sup>, Jelle Veraart<sup>3</sup>, Dmitry S. Novikov<sup>3</sup>, L. Elliot Hong<sup>1</sup>, Paul M. Thompson<sup>2</sup>, Peter Kochunov (2018). Ranking resting-state functional connectivity deficits in schizophrenia using ENIGMA rsfMRI and DTI approaches, **OHBM 2018**, Singapore.

1053. Abraham Nunes, Hugo Schnack, Dominik Grotegerd, Tim Hahn, Udo Dannlowski, Neeltje EM van Haren, Josselin Houenou, Edoaurd Duchesnay, Lisa Eyler, Xavier Caseras, Lars Tjelta Westlye, Nhat Trung Doan, Torbjørn Elvsåshagen Benson Irungu, Soares Jair, Carlos López Jaramillo, David Glahn, Colm MacDonald, Dara Cannon, Theodore Satterthwaite, Gloria Roberts, Fleur Margaret Howells, Krug Axel, Pomarol-Clotet Edith, Martin Alda, Thomas Trappenberg, Ole Andreassen, Chris R.K. Ching, Neda Jahanshad, Derrek P. Hibar, Paul M. Thompson, Tomas Hajek (2018). Using structural MRI to identify bipolar disorders – 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorder Working Group, **OHBM 2018**, Singapore.

1054. Ida Elken Sønderby, Nhat Trung Doan, Derrek Hibar, Sandra Martin-Brevet, Lars Westlye, Sébastien Jacquemont, Srdjan Djurovic, Paul Thompson, Ole Andreassen, ENIGMA-CNV working group (2018). Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia, **OHBM 2018**, Singapore.

1055. Dirk Smit and the ENIGMA EEG Working Group (2018). Psychiatric Liability Genes Are Linked to Oscillatory Brain activity: A Genome-Wide Association Study, **OHBM 2018**, Singapore.

1056. Martine Hoogman and the ENIGMA ADHD Working Group (2018). ADHD and the cortex; evidence from large clinical and population based samples, **OHBM 2018**, Singapore.

## **AAIC 2018**

1057. Meral A. Tubi,<sup>1</sup> Franklin W. Feingold,<sup>1</sup> Fabian Corlier,<sup>1</sup> Nicki Mostowfi,<sup>1</sup> Paul M. Thompson,<sup>1</sup> Meredith N. Braskie (2018). **RELATIONSHIP OF BRAIN STRUCTURE AND GLUCOSE METABOLISM TO VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF)**, **AAIC 2018**.

1058. Meredith N. Braskie, Paul M. Thompson (2018). Peripheral inflammation and brain glucose metabolism in non-demented older adults, **AAIC 2018**.

### **SOBP 2018 (late breaking abstracts)**

1059. **Ida Elken Søndersby**<sup>1</sup>, Ómar Gústafsson<sup>2</sup>, Nhat Trung Doan<sup>1</sup>, Derrek Paul Hibar<sup>3-5</sup>, Dennis van der Meer<sup>1</sup>, Lars T. Westlye<sup>1,6-7</sup>, Srdjan Djurovic<sup>1</sup>, Paul M. Thompson<sup>3</sup>, Ole A. Andreassen<sup>1\*</sup> for the ENIGMA-CNV working group (2018). **Positive dose response of the 1q21.1 distal CNV on intracranial volume and cortical surface area, submitted to SOBP 2018, New York, May 2018.**

1060. Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, Faisal Rashid, MiHyun Jang, Tejal Patted, Victoria Knight, Christopher RK Ching, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). **ENIGMA-ODS: A Platform for Global Neuroscience Collaborations in the ENIGMA Consortium, submitted to SOBP 2018, New York, May 2018.**

1061. Xiangzhen Kong<sup>1</sup>; Premika Boedhoe<sup>2</sup>; ENIGMA-OCD Working Group<sup>3</sup>; Lianne Schmaal<sup>4</sup>; Simon E. Fisher<sup>1,5</sup>; Paul M. Thompson<sup>6</sup>; Dan J. Stein<sup>7</sup>; Odile A. van den Heuvel<sup>2</sup>; Clyde Francks (2018). **Altered brain anatomical asymmetry in Obsessive-Compulsive Disorder: Preliminary findings from the ENIGMA Consortium, submitted to SOBP 2018, New York, May 2018.**

1062. **Willem B. Bruin**<sup>1</sup>, Jonathan Shock<sup>2</sup>, Rajat Thomas<sup>1</sup>, Nynke Groenewold<sup>2</sup>, Premika S.W. Boedhoe<sup>3</sup>, Paul Thompson<sup>4</sup>, Odile A. van den Heuvel<sup>3</sup>, Dan J. Stein<sup>2</sup>, and Guido van Wingen<sup>1</sup> for the ENIGMA-OCD Consortium (2018). **Machine learning classification of obsessive-compulsive disorder using structural neuroimaging data: a benchmark for ENIGMA, submitted to SOBP 2018, New York, May 2018.**

1063. Brian M. O'Leary<sup>1</sup>, Hong Xie<sup>1</sup>, Rajendra A. Morey<sup>2</sup>, Israel Liberzon<sup>3</sup>, Xin Wang<sup>1,3</sup>, ENIGMA-PGC PTSD co-authors (2018). Development of cortical vertex-based mega-analysis to study brain abnormalities in PTSD, **ISTSS 2018**.

1064. Axel Sylvain Jeremie Montagne, Mikko Tuomas Huuskonen, Samuel R Barnes, Madelaine Daianu, Krupal Shah, Jacob Prince, Paul Thompson, Russell Jacobs, Berislav Zlokovic (2018). *Magnetic Resonance Imaging of White Matter Neurovascular Dysfunctions in the Mouse Brain, submitted to World Molecular Imaging Congress, Seattle, USA, 2018.*

1065. Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, Faisal Rashid, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). **ENIGMA-ODS: A Platform for Global Neuroscience Collaborations in the ENIGMA Consortium, submitted to INCF 2018, Montreal, Canada.**

1066. Villalon Reina JE, Martinez K, Thompson PM, Bearden C, for the ENIGMA 22q Working Group (2018). Diffusion Tensor Imaging reveals highly atypical white matter in 22q11.2 Deletion Syndrome: Meta- and mega-analysis findings of the ENIGMA consortium, 40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18), Honolulu, HI, USA, July 17-21, 2018.

## WCPG 2018

1067. Sourena Soheili-Nezhad, Neda Jahanshad, Emma Sprooten, Christian F. Beckmann, Afsaneh Tajer, Sebastian Guelfi, Reza Khosrowabadi, Andrew J. Saykin, Paul M. Thompson, Mojtaba Zarei (2018). Genome-wide sequencing and data-driven neuroanatomical MRI analysis suggests SHARPIN missense SNP for Alzheimer's disease. WCPG 2018, submitted.
1068. **Watsamon** Jantarabenjakul,1,2 Jesdaporn Srisamer,2 Tuangtip Theerawit,2 Jiratchaya Sophonphan,3 Montida Veeravigom,1 Weerasak Chonchaiya,1 Thanyawee Puthanakit,1,2 Jintanat Anantaworanich,4,5 Neda Jahanshad,6 Paul M. Thompson,6 Kathleen Malee,7 Chitsanu Pancharoen,1,2 on behalf of DOET study (2018). **Neurodevelopmental and behavioral outcomes in perinatally HIV infected children who initiated antiretroviral therapy within 3 months of age**, AIDS conference and PED workshop in Amsterdam, the Netherlands (19-27 July 2018).

## SFN 2018

1069. **Dennis EL**, Caeyenberghs K, Babikian T, Olsen A, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2018). ENIGMA Pediatric msTBI: Preliminary Results from Meta-Analysis of Diffusion MRI. *Society for Neuroscience*: San Diego, CA.
1070. **Dennis EL**, Caeyenberghs K, Babikian T, Olsen A, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2018). ENIGMA Pediatric msTBI: Framework and Single Site Results. *NeuroTrauma 2018*: Toronto.
1071. **Dennis EL**, Wilde EA, Newsome MR, Scheibel RS, Troyanskaya M, Velez C, Wade BSC, Drennon A, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen B, Belanger H, Levin HS, Hinds SR, Walker WC, Thompson PM, Tate DF (2018). ENIGMA Military Brain Injury: Framework and Preliminary dMRI Meta-Analysis. *NeuroTrauma 2018*: Toronto.
1072. **Dennis EL**, Wilde EA, Scheibel RS, Troyanskaya M, Velez C, Wade BSC, Drennon AM, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen B, Belanger H, Morey R, Haswell C, Newsome MR, Levin HS, Hinds II SR, Walker WC, Thompson PM, Tate DF (2018). Altered White Matter Organization after Military Brain Injury: Preliminary Results from the ENIGMA Military Brain Injury Group. *Federal Interagency Conference on Traumatic Brain Injury*: Washington DC. **Selected as Platform talk.**

## ACNP 2018

1073. Tiffany C. Ho (1,2), Boris Gutman (3), Elena Pozzi (4,5), Hans Grabe, Katharina Wittfeld, Udo Dannlowski, Bernhard Baune, Axel Krug, Tilo Kircher, Dick Veltman, Henrik Walter, Ilya Veer, Ian H. Gotlib, Matthew D. Sacchet, Nynke Groenewold, Andre Aleman, Martin Walter, Meng Li, Neda Jahanshad (a), Paul M. Thompson (a), Philipp G. Sämann, Lianne Schmaal (4,5) (2018). **Subcortical shape alterations in major depressive disorder: meta-analytic findings from the ENIGMA MDD Working Group, submitted to ACNP 2018, Aug. 9 2018.**

## INS 2019

- 1074.Emily L. Dennis<sup>1,2</sup>, Elisabeth A. Wilde<sup>3-5,11</sup>, Rajendra Morey<sup>15</sup>, Courtney Haswell<sup>15</sup>, **Paul M. Thompson**<sup>1,2,19</sup>, Peter Kochunov<sup>20</sup>, Neda Jahanshad<sup>1</sup>, David F. Tate (2018). Neural Correlates of Depressive Symptoms after Brain Injury: Preliminary Results from the ENIGMA Military Brain Injury Group, submitted to INS 2019.
- 1075.Lauren E. Salminen<sup>1</sup>, Alyssa H. Zhu<sup>1</sup>, Brandalyn C. Riedel<sup>1</sup>, Christopher R. K. Ching<sup>1</sup>, Victoria Knight<sup>1</sup>, Arvin Saremi<sup>1</sup>, Faisal Rashid<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Marc Harrison<sup>1</sup>, Anjanibhargavi Ragothaman<sup>1</sup>, Christina Boyle, Sarah E. Medland<sup>2</sup>, Paul M. Thompson<sup>1</sup>, Neda Jahanshad (2019). **Neuroimaging Correlates of Perinatal Smoke Exposure Later in Life: An Analysis of the UK Biobank Cohort, submitted Aug. 10 2018.**

## ECNP 2019

- 1076.Jeanne Leerssen<sup>1</sup>, Tessa F. Blanken<sup>1</sup>, Elena Pozzi<sup>2,3</sup>, Neda Jahanshad<sup>4</sup>,Lyubomir Aftanas<sup>5,6</sup>, Bernhard T. Baune<sup>7</sup>, Udo Dannlowski<sup>8</sup>, Thomas Frodl<sup>9,10</sup>, Beata R. Godlewska<sup>11</sup>, Ian H. Gotlib<sup>12</sup>, Dominik Grotegerd<sup>8</sup>, Oliver Gruber<sup>13</sup>, Sean N. Hatton<sup>14</sup>, Ian B. Hickie<sup>14</sup>, Benson Irungu<sup>15</sup>, Natalia Jaworska<sup>16</sup>, Tilo Kircher<sup>17</sup>, Axel Krug<sup>17</sup>, Jim Lagopoulos<sup>14,18</sup>, Meng Li<sup>19</sup>, Frank P. MacMaster<sup>16,20</sup>, Andrew M. McIntosh<sup>21,22</sup>, Evgeny Osipov<sup>23</sup>, Maria J. Portella<sup>24,25</sup>, Matthew D. Sacchet<sup>26</sup>, Philipp G. Saemann<sup>27</sup>, Egle Simulionyte<sup>13</sup>, Jair C. Soares<sup>28</sup>, Martin Walter<sup>29</sup>, Heather C. Whalley<sup>21</sup>, Dick Veltman<sup>30,31,32</sup>, Paul M. Thompson<sup>4</sup>, Lianne Schmaal<sup>3,34</sup>, Eus J.W. van Someren (2019). **Brain structural correlates of insomnia severity in 1053 individuals with Major Depressive Disorder: Results from the ENIGMA Major Depressive Disorder Working Group, submitted to ECNP 2019.**

## SOBP 2019

- 1077.Lauren E. Salminen, Mark W. Logue, Emily C. Clark, Emily L. Dennis, Eugenio Iglesias, Jasmeet Hayes, Soraya Seedat, Steven E. Bruce, Christopher D. Whelan, Neda Jahanshad, **Paul M. Thompson**, and Rajendra A. Morey for the PGC-ENIGMA PTSD Working Group (2019). Hippocampal Subfield Volumes Relate to Unique Phenotypes of PTSD: International Analysis by the PGC-ENIGMA PTSD Working Group, submitted to **SOBP 2019**, Chicago, USA.
- 1078.Emily L. Dennis, Negar Fani, Seth Disner, Lauren Salminen, **Paul M. Thompson**, Peter Kochunov, Neda Jahanshad, and Rajendra A. Morey for the PGC-ENIGMA PTSD Working Group (2019). Lower White Matter Integrity in PTSD: Results from the PGC-ENIGMA PTSD Working Group, submitted to **SOBP 2019**, Chicago, USA.
- 1079.Sonja MC de Zwarte, Rachel M Brouwer, Christopher RK Ching, Ole A Andreassen, Theo GM van Erp, Jessica A Turner, Paul M Thompson, René S Kahn, Neeltje EM van Haren, for the ENIGMA Relatives Working Group (2019). ENIGMA-Relatives: the association between familial risk for schizophrenia or bipolar disorder and brain abnormalities, submitted to **SOBP 2019**, Chicago, USA.
- 1080.Tiril P Gurholt, Unn K Haukvik, Stener Nerland, Paul M Thompson, Christopher Ching, Ole Andreassen, Ingrid Agartz for the ENIGMA Bipolar Disorder Working Group (2019). In vivo hippocampal subfield volumes in bipolar disorder – a multisite ENIGMA mega-approach, submitted to **SOBP 2019**, Chicago, USA.

## AAN 2019

- 1081.Emily L. Dennis<sup>1,2,3,4</sup>, Elisabeth A. Wilde<sup>5-7,13</sup>, Artemis Zavaliangos-Petropulu<sup>3</sup>, Mary R. Newsome<sup>5,6</sup>, Randall S. Scheibel<sup>5,6</sup>, Maya Troyanskaya<sup>5,6</sup>, Carmen Velez<sup>8</sup>, Benjamin S.C. Wade<sup>8,9</sup>, Ann Marie Drennon<sup>10</sup>, Gerald E. York<sup>11</sup>, Erin D. Bigler<sup>12</sup>, Tracy J. Abildskov<sup>12</sup>, Brian A. Taylor<sup>5,6,13</sup>, Carlos A. Jaramillo<sup>14</sup>, Blessen Eapen<sup>14</sup>, Heather Belanger<sup>15,16</sup>, Rajendra Morey<sup>17</sup>, Courtney Haswell<sup>17</sup>, Inga Koerte<sup>1</sup>, Martha E. Shenton<sup>1</sup>, Harvey S. Levin<sup>5,6</sup>, Sidney R. Hinds II<sup>18</sup>, William C. Walker<sup>10,19,20</sup>, Paul M. Thompson<sup>3,21</sup>, David F. Tate<sup>7,8</sup> (2019). ENIGMA Military Brain Injury: Altered Subcortical Volume Revealed by Mega-Analysis, submitted to **AAN 2019**.

## ISTSS 2019

1082. BM O'Leary, H Xie, CG Abdallah2KM Angstadt3JT Baker4E Clarke5SL Davis5MD De Bellis6EL Dennis7H Gomaa2A Gönenc4E Gordon8SA Gruber4D Grupe9I Harpaz-Rotem2CC Haswell5B Hosseini10N Jahanshad7T Jovanovic11ML Kaufman4AP King3JH Krystal2LAM Lebois4I Levy12G May8KA McLaughlin13MAB McMahan7RA Morey6SM Nelson8LK O'Connor14M Peverill15L Phan10KJ Ressler4K Sambrook15M Shenton16MA Sheridan17BC Skilliter1M Stein18JS Stevens11M Tamburrino1PM Thompson7SJH van Rooij11SR Winternitz4EJ Wolf19JD Wolff4K Wrocklage2X Zhu20E Andrew21RA Bryant22MS Korgaonkar21A Hudson23S Mueller23L Wang24Y Zhu24DB Hofmann25A Manthey26A Sierk26JK Daniels27MB de Ruiter28E Dorrepaal28N Draijer28JL Frijling29E Geuze30J Herzog31SBJ Koch29L Nawijn29M Olf29JH Smit28K Thomaes28AJ van Balkom28NJA van der Wee32SJA van der Werff32M van Zuiden29T Varkevisser30DJ Veltman28RRJM Vermeiren32J Ipser33S Koopowitz33D Stein33I Liberzon3X Wang1 (2019). Development of cortical vertex-based mega-analysis to study brain abnormalities in PTSD, submitted to **International Society for Traumatic Stress Studies (ISTSS)**.

## ISMRM 2019

- 1083.Julio E. Villalon-Reina, Talia M. Nir, Neda Jahanshad, Christopher R.K. Ching, Ariana Vajdi, Amy Lin, Leila Kushan, Carrie E. Bearden, **Paul M. Thompson** (2019). Watson vs. Bingham Distributions in NODDI measures of Brain Microstructure in Individuals with Chromosome 22q11.2 copy number variants, submitted to **ISMRM 2019**, Montreal, 2019.
- 1084.*Emily L. Dennis, Ananya Singh, Conor K. Corbin, Neda Jahanshad, Tiffany C. Ho, Lucy S. King, Lauren R. Borchers, Kathryn L. Humphreys, Paul M. Thompson, Ian H. Gotlib* (2019). Associations Between Maternal Depression and Infant Fronto-Limbic Connectivity, submitted to **ISMRM 2019**, Montreal, 2019.
- 1085.Elizabeth Haddad, Daniel C. Moyer, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2019). **Refining microstructural associations with age in thalamic projections by removing contamination from vasculature**, submitted to **ISMRM 2019**, Montreal, 2019.

## SIRS 2019

- 1086.Mathilde Antoniadou<sup>1</sup>, Alex Fornito, Melissa Green, Christos Pantelis, Pamela DeRosse, Martin Debbane, Igor Nenadic, Christian Gaser, Bianca Besteher, Matthias Kirschner, Stefan Keiser, Iris Sommer, Kelly Diederer, Jan-Bernard Marsman, Veena Kumari, Raymond Chan, Yann Quide, Wulf Rössler, Haeme Park, Irina Lebedeva, Anne Fett, Theo van Erp, Jessica Turner, André Aleman, Paul M. Thompson, Gemma Modinos<sup>1,2</sup>, for the ENIGMA Schizotypy Working Group\* (2019). **Relationship**

**Between Schizotypy and Subcortical Brain Volumes in 1084 Individuals via the ENIGMA consortium, SIRS 2019.**

**INSAR 2019**

1087. Ida Elken Sønderby, Dennis van der Meer, Bragi Walters, Srdjan Djurovic, Ingrid Agartz, Lars Tjelta Westlye, Sebastien Jacquemont, Hreinn Stefansson, Paul Thompson, Ole Andreassen; for the ENIGMA-CNV working group (2019). **ENIGMA-CNV: Unraveling the Effects on Brain Structure of Rare Copy Number Variants Involved in Autism and Other Neurodevelopmental Diseases**, submitted to INSAR 2019.

**OHBM 2019 (29 abstracts; 14 ENIGMA-related, 15 IGC):**

1088. Boyle CP, Ching CRK, Thomopoulos SI, Zavaliangos-Petropulu A, Mezher A, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Thompson PM, for ADNI (2019). Brain aging assessed with longitudinal magnetic resonance imaging (MRI): effects of scanner vendor changes, **OHBM 2019**, Rome, Italy, submitted.

1089. Ding L, Jansen P, Zhu A, Bright J, Thompson PM, Posthuma D, Van Someren E, Jahanshad N (2019). Mapping shared genetic risk for Parkinson's Disease & Insomnia to the Human Brain in UK Biobank, **OHBM 2019**, Rome, Italy, submitted.

1090. Guo L, Tang H, Wang Q, Huang H, Zhu D, Ajilore O, Thompson PM, Leow AD, Zhan L (2019). Abnormal modular structure in the Alzheimer's brain, **OHBM 2019**, Rome, Italy, submitted.

1091. Haddad E, Moyer DC, Zhu AH, Thompson PM, Jahanshad N (2019). Adjusting for vascular contamination in DWI studies of white matter microstructure with SWI, **OHBM 2019**, Rome, Italy, submitted.

1092. Kothapalli D, Tubi MA, Corlier FW, Thomopoulos SI, Thompson PM, Jahanshad N, Braskie MN. Interactive Tool for Visual Quality Control of Cortical Parcellations. **OHBM 2019**, Rome, Italy, submitted.

1093. Moyer DC, Ver Steeg G, Tax C, Thompson PM (2019). Scanner Invariant Representations, **OHBM 2019**, Rome, Italy, submitted.

1094. Nir TM, Villalon-Reina JE, Thomopoulos SI, Zavaliangos-Petropulu A, Reid RI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Jahanshad N, Thompson PM, for ADNI (2019). Comparing NODDI Implementations for Evaluating Brain Microstructure with ADNI3 Diffusion MRI, **OHBM 2019**, Rome, Italy.

1095. Pizzagalli F, Thomopoulos SI, Auzias G, Mangin JF, Riviere D, Kochunov P, Thompson PM, Jahanshad N and the Alzheimer's Disease Neuroimaging Initiative (2019). Sulcal morphometry as a predictor of conversion from MCI to AD in ADNI, **OHBM 2019**, Rome, Italy.

1096. Tang H, Guo L, Huang H, Ajilore O, Dodge H, Thompson PM, Leow AD, Zhan L (2019). Graph mining on aging using brain structural networks, **OHBM 2019**, Rome, Italy, submitted.

1097. Villalon-Reina JE, Nir TM, Jahanshad N, Kushan L, Ching CRK, Bearden CE, Thompson PM. Cortico-cortical vs Corticospinal Tract differences in 22q11.2 Deletion syndrome: A Fixel-based Analysis. **OHBM 2019**, Rome, Italy, submitted.
1098. Yang Q, Thomopoulos SI, Ding LY, Surento W, Thompson PM, Jahanshad N (2019). Autoregressive Mixed Models of Longitudinal Brain Changes, Cognition and Genetics in ADNI, **OHBM 2019**, Rome, Italy, submitted.
1099. Zavaliangos-Petropulu A, Jahanshad N, Thompson PM, Liew S-L (2019). Evaluating Stroke Lesion Overlap with Subcortical Structures and Post-Stroke Motor Performance, **OHBM 2019**, Rome, Italy, submitted.
1100. Zavaliangos-Petropulu A, Nir TM, Thomopoulos SI, Reid RI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Jahanshad N, Thompson PM, for ADNI (2019). Comparing Harmonization Approaches across ADNI3 Diffusion MRI Protocols, **OHBM 2019**, Rome, Italy.
1101. Zhu A, Salminen LE, Thompson PM, Jahanshad N (2019). BioParser: A UK Biobank data parser with built in and customizable filters for brain studies, **OHBM 2019**, Rome, Italy, submitted.
1102. Adhikari BM, Dukart J, Hipp J, Forsyth A, McMillan R, Muthukumaraswamy S, Hong LE, Neda Jahanshad N, Thompson PM, Rowland LM, Kochunov P (2019). Evaluating Effects of Ketamine and Midazolam using ENIGMA Resting State MRI Pipeline, **OHBM 2019**, Rome, Italy, submitted.
1103. Antoniades M, Arnatkevičiūtė A, Fornito A, Green M, Pantelis C, Quide Y, DeRosse P, Moyett A, Debbané M, Derome M, Nenadic I, Gaser C, Besteher B, Meller T, Kirschner M, Kaiser S, Sommer I, Diederer K, Spencer T, Koops S, Marsman JB, Kumari V, Chan R, Rössler W, Smigielski L, Park H, Wiebels K, Lebedeva I, Tomyshev A, Fett AK, Gilleen J, Grotegerd D, Kircher T, Krug A, Ettinger U, Dagher A, Dannlowski U, Baune B, Lemmers I, van Erp TGM, Turner JA, Thompson PM, Aleman A, Modinos G (2019). Subcortical Brain Volumes in Schizotypy Assessed in a Worldwide ENIGMA Study, **OHBM 2019**, Rome, Italy, submitted.
1104. Bornstein M, Nir TM, Thompson PM, Jahanshad N (2019). DTI vs. TDF derived fractional anisotropy in identifying white matter change in Parkinson's disease, **OHBM 2019**, Rome, Italy, submitted.
1105. Brouwer RM, Klein M, Jahanshad N, Grasby KL, Medland SE, Franke B, Thompson PM, Hulshoff Pol HE, for the ENIGMA Plasticity Working Group (2019). Genetic markers for brain plasticity, **OHBM 2019**, Rome, Italy, submitted.
1106. Brouwer R, Thompson PM, Frangou S, Desrivières S, Jahanshad N (2019). The ENIGMA World Aging Center: a global brain study of biological predictors of aging, **OHBM 2019**, Rome, Italy, submitted (symposium).

1107. Dennis EL, Caeyenberghs K, Babikian T, Olsen A, Levin H, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2019). ENIGMA Pediatric Moderate/Severe TBI: Preliminary DTI Analysis, **OHBM 2019**, Rome, Italy, submitted.
1108. Dennis EL, Wilde EA, Velez C, Troyanskaya M, Haswell C, Bouchard H, Newsome MR, Scheibel RS, Zavaliangos-Petropulu A, Wade BSC, Drennon AM, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen BC, Belanger H, Disner S, Franz C, Kremen W, Gueze E, Kenney K, Ollinger J, Bonavia G, Morey R, Adamson MM, Kang X, Koerte I, Shenton ME, Levin HS, Hinds II SR, Walker WC, Kochunov P, Jahanshad N, Thompson PM, Tate DF (2019). ENIGMA Military Brain Injury: DTI Meta-Analysis, **OHBM 2019**, Rome, Italy, submitted.
1109. Favre P, Duchesnay E, Houenou J, for the ENIGMA Bipolar Disorder Working Group. Subgrouping Patients with Bipolar Disorder Based on DTI Data: Relationship with Clinical Dimensions. **OHBM 2019**, Rome, Italy, submitted.
1110. Haukvik UK, Gurholt TP, Nerland S, Thompson PM, Ching CRK, Andreassen OA, Agartz I, for the ENIGMA Bipolar Disorder Working Group. In vivo hippocampal subfield volumes in bipolar disorder – a multisite ENIGMA mega-approach. **OHBM 2019**, Rome, Italy, submitted.
1111. Kong X, Boedhoe PSW, ENIGMA-OCD Working Group, Thompson PM, Stein DJ, van den Heuvel OA, Francks C (2019). Mapping Cortical and Subcortical Asymmetry in OCD: Findings from the ENIGMA Consortium, **OHBM 2019**, Rome, Italy, submitted.
1112. Postema MC, van Rooij D, ENIGMA ASD Working Group, Thompson PM, Fisher SE, Buitelaar JK, Francks C for the ENIGMA Laterality Working Group (2019). Altered structural brain asymmetry in autism spectrum disorder: a large-scale analysis via the ENIGMA Consortium, **OHBM 2019**, Rome, Italy, submitted.
1113. Ryan MC, Jahanshad N, Thompson PM, Hong LE, Kochunov P (2019). ENIGMA Schizophrenia DTI findings: Replicating & Explaining Cognitive Deficit & Treatment Resistance, **OHBM 2019**, Rome, Italy, submitted.
1114. van der Meer D<sup>\*</sup>, Sønderby I<sup>\*</sup>, Kaufmann T, Djurovic S, Agartz I, Westlye L, Thompson PM, Andreassen OA for the ENIGMA-CNV working group (2019). Updates from the ENIGMA-CNV working group: 15q11.2 structural variants influence cortical morphology, **OHBM 2019**, Rome, Italy, submitted.
1115. van der Werf YD, Bright J, Laansma M, Gutman B, Rummel C, Debove I, Rocha C, Yasuda C, Poston K, Wiest R, Cendes F, Van den Heuvel OA, Galli R, Piras F, Spalletta G, Druzgal J, Barrett M, Pitcher T, Melzer T, al-Bachari S, Parkes L, de Bie R, Rango M, McMillan C, Jahanshad N, Thompson P (2019). International mega-analysis of cortical and subcortical morphometry in Parkinson's Disease: ENIGMA-PD, **OHBM 2019**, Rome, Italy, submitted.

ADPD Conference 2019



1116.L. Ding<sup>1</sup>, A. Zhu<sup>1</sup>, M. Bornstein<sup>1</sup>, P. Thompson<sup>1</sup>, N. Jahanshad (2019). **THE ASSOCIATION BETWEEN GENOME-WIDE RISK FOR PD AND CORTICAL STRUCTURE IN UK BIOBANK**, submitted to the ADPD Conference 2019, Lisbon, Portugal.

ESHG 2019

1117. Gennady V Roshchupkin<sup>1,2</sup>, M. Arfan Ikram<sup>3,2,4</sup>, Katharina Wittfeld<sup>5,6</sup>, Marcel Zwiers<sup>7</sup>, Neda Jahanshad<sup>\*8</sup>, Alexander Teumer<sup>9</sup>, Paul M. Thompson<sup>8</sup>, Barbara Franke<sup>7,10</sup>, Hans J. Grabe<sup>6</sup>, Wiro J. Niessen<sup>1,2,11</sup>, **Hieab H.H. Adams<sup>3,2,12</sup>**. (2019). **One and a half million genome wide-association studies of brain morphometry: a proof-of-concept study**, submitted to ESHG 2019, Feb. 14 2019.

### SFN 2019 (13 abstracts)

1118.Ding L, Thompson PM, Jahanshad N (2019). Mapping Combined Genetic Risk for Bipolar Disorder and Schizophrenia to the Human Brain in UK Biobank, **SFN 2019**, Chicago, Oct. 19-23 2019.

1119.Villalon Reina JE, Nir TM, Jahanshad N, Kushan L, Bearden CE, Thompson PM (2019). Myelin and G-ratio Imaging in 22q11.2 Deletion Syndrome: A Pilot Study, **SFN 2019**, Chicago, Oct. 19-23 2019.

1120.Bright J, Ding L, Bornstein M, van der Werf YD, Laansma MA, Thompson PM, Jahanshad N (2019) Polygenic risk for Parkinson's disease in unaffected individuals associates with microstructure of disease-related white matter regions, **SFN 2019**, Chicago, Oct 19-23 2019.

1121.Tubi M, Hapenny M, King K, Riedel BC, Mack W, Thompson PM, Braskie MN (2019). [Cardiovascular risk modifies the relationship of VEGF to cognition and regional glucose metabolism in Alzheimer's disease](#), **SFN 2019**, Chicago, Oct 19-23 2019.

1122.Thomopoulos SI, Nir TM, Villalon-Reina JE, Haddad E, Jahanshad N, Reid RI, Bernstein MA, Borowski B, Jack CR Jr, Weiner MW, Thompson PM (2019). Detection of aging effect on white matter microstructure: A comparison of diffusion MRI preprocessing pipelines, **SFN 2019**, Chicago, Oct. 19-23 2019.

1123.Kothapalli D, Tubi MA, Thomopoulos SI, Aganj I, Sweeney MD, Wang X, Schneider LS, Joe EB, Ringman JM, Yassine H, Harrington MG, Zlokovic BV, Toga AW, Chui HC, Thompson PM, **Braskie MN** (2019). Automated Measurement of Medial Temporal Lobe Subregion Thickness using Minimum Line Integrals. **SFN 2019**, Chicago, Oct. 19-23 2019.

1124.Zavaliangos-Petropulu A, B. BIGJAHAN<sup>2</sup>, M. R. BORICH<sup>3</sup>, T. R. BROWN<sup>4</sup>, C. M. BUETEFISCH<sup>4</sup>, W. D. BYBLOW<sup>5</sup>, S. C. CRAMER<sup>7</sup>, A. DULA<sup>8</sup>, K. GILL<sup>2</sup>, A. GOUD<sup>10</sup>, D. H. HWANG<sup>2</sup>, N. KHOSHAB<sup>12</sup>, H. KIM<sup>13</sup>, A. KUCEYESKI<sup>14</sup>, C. E. LANG<sup>15</sup>, M. LOTZE<sup>16</sup>, B. J. MACINTOSH<sup>17</sup>, A. RAMOS-MURGUIALDAY<sup>18</sup>, A. D. ROBERTSON<sup>19</sup>, P. ROBERTS<sup>11</sup>, M. S. SHIROISHI<sup>2</sup>, C. M. STINEAR<sup>6</sup>, R. C. CRADDOCK<sup>9</sup>, K. A. WONG<sup>20</sup>, G. THIELMAN<sup>21</sup>, N. S. WARD<sup>22</sup>, G. F. WITTENBERG<sup>23</sup>, N. JAHANSHAD<sup>1</sup>, P. M. THOMPSON<sup>1</sup>, S.-L. LIEW (2019). [Ipsilesional hippocampal volume is directly associated with motor performance in chronic stroke patients: An ENIGMA stroke recovery analysis](#), **SFN 2019**, Chicago, Oct. 19-23 2019.

1125. Zhu A, Thompson PM, Jahanshad N (2019). [Family history of suicide may have a sex-specific effect on brain structure in adolescents](#), **SFN 2019**, Chicago, Oct. 19-23 2019.
1126. Pizzagalli F, Gadewar PS, Thomopoulos SI, Yang Q, Kochunov P, Thompson PM, Jahanshad N (2019). Classification of Alzheimer's Disease patients using MRI-based cortical phenotyping 1 and 2 years before dementia onset, **SFN 2019**, Chicago, Oct. 19-23 2019.
1127. Boyle C, Ching CRK, Thomopoulos SI, Zavaliangos-Petropulu A, Mezher A, Thompson PM (2019). Inflammatory markers related to liver function predict longitudinal brain atrophy, **SFN 2019**, Chicago, Oct. 19-23 2019.
1128. Ching CRK, Thompson PM, Bearden CE, and the ENIGMA 22Q11.2 Deletion Syndrome Working Group (2019). A genetics-first approach to understanding mechanisms of psychiatric disorders: subcortical alterations in 22q11.2 deletion syndrome and convergence with idiopathic neuropsychiatric illness, **SFN 2019**, Chicago, Oct. 19-23 2019.
1129. Ba Gari I, Surento W, Zhu A, Thompson PM, Jahanshad N (2019). Age associations with choroid-plexus calcification volumes defined by quantitative susceptibility mapping, **SFN 2019**, Chicago, Oct. 19-23 2019.
1130. Surento W, Ba Gari I, Sun Z, Kim H, Thompson PM, Cayabyab R, Shiroishi M, Jahanshad N (2019). Brain volume estimates from clinical MRIs of premature and severely underweight infants acquired in the neonatal ICU may help predict neurodevelopment, **SFN 2019**, Chicago, Oct. 19-23 2019.

#### **EMBC 2019**

1131. Villalon Reina JE, Nir TM, Jahanshad N, Kushan L, Bearden CE, Thompson PM (2019). Altered Intracellular Volume Fraction and Neurite Dispersion in People with Chromosome 22q11.2 Copy Number Variants. Accepted to the Engineering in Medicine and Biology Conference (EMBC). Berlin, Germany, July 23-27, 2019.

#### **Frontiers in TBI (Traumatic Brain Injury) Conference 2019**

1132. Virginia Conde<sup>1</sup>, Emily L. Dennis<sup>3,4</sup>, John André Nebb Ek<sup>1</sup>, Agustin Petroni<sup>1</sup>, Kari Anne I. Evensen<sup>5,6</sup>, Torun Finnanger<sup>9</sup>, Paul M. Thompson, Anne Vik<sup>7,8</sup>, Toril Skandsen, Asta Håberg, Alexander Olsen<sup>1,2</sup> (2019). **The clinical and functional significance of Rich Club graph metrics in chronic moderate to severe traumatic brain injury**, **Frontiers in TBI (Traumatic Brain Injury) Conference 2019**.

1133. Artemis Zavaliangos-Petropulu, Neda Jahanshad, **Paul M. Thompson**, Sook-Lei Liew (2019). Corticospinal Tract Lesion Load and Motor Performance Measures Improve Hippocampal Volume Prediction Model in Chronic Stroke Patients, **ASNR 2019**.

#### **IARC 2019**

1134. Harding I, ..., ENIGMA Ataxia Consortium (2019). **Brain atrophy in Friedreich ataxia preferentially manifests in cerebellar and cerebral motor areas: Results from the ENIGMA-Ataxia consortium**, International Ataxia Research Conference, November 2019.

1135. Harding I, ..., ENIGMA Ataxia Consortium (2019). **The spatial distribution of cerebellar and brainstem structural abnormalities in SCA1, 2, 3, and 6 from the ENIGMA-Ataxia consortium**, International Ataxia Research Conference, November 2019.

### **INS 2020**

1136. Lauren E. Salminen, Greg ver Steeg, Sophia I. Thomopoulos, Neda Jahanshad, **Paul M. Thompson (2020)**. **Information-Theoretic Clustering of Plasma and Imaging Measures in Aging, Mild Cognitive Impairment, and Alzheimer's disease**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1137. Joanna Bright, **Paul M. Thompson**, Neda Jahanshad and Lauren E. Salminen (2020). **Cortical Morphometry in Middle Aged and Older Adults with Histories of Substance Misuse**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1138. Sophia I. Thomopoulos, Christopher R. K. Ching, Christina P. Boyle, Adam Mezher, Artemis Zavaliangos-Petropulu, Talia M. Nir, Neda Jahanshad, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (2020). **Brain Amyloid Load is Associated with Faster Rates of Brain Atrophy in Normal Aging and Cognitive Impairment**, INS 2020, Denver, CO, USA, Feb. 2020 [accepted].

1139. Christina P. Boyle, Cyrus A. Raji, Kirk I. Erickson, Oscar L. Lopez, James T. Becker, H. Michael Gach, W. T. Longstreth, Jr., Mikhail Popov, Lewis Kuller, Owen T. Carmichael, **Paul M. Thompson (2019)**. **Non-specific estrogen therapy is associated with greater volume in brain regions implicated in Alzheimer's disease**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1140. *Frank Hillary, David Tate, Elisabeth Wilde, Paul M. Thompson (2020)*. *Advancing precision medicine through data sharing, transparency, and open science: a decade of the ENIGMA initiative*, submitted to INS 2020, Denver, CO, USA, Feb. 2020 [Symposium].

1141. *Paul M. Thompson (2020)*. *ENIGMA, Big Data, and the Brain: Imaging and Genomics of 22 Brain Disorders in 80,000 Individuals from 43 Countries*, submitted to INS 2020, Denver, CO, USA, Feb. 2020 [Symposium presentation].

1142. Pradeep Lam, Daniel C. Moyer, Alyssa Zhu, Neda Jahanshad, **Paul M. Thompson (2020)**. **A Comparison of Deep Learning Methods for Brain Age Prediction**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

### **Rare Diseases Congress 2020**

1143. Leyla Namazova-Baranova, George Karkashadze, Mikhail Belyaev, Anatoly Anikin, Kirill Savostyanov, Vladimir Smirnov, Anait Gevorkyan, Olga Komarova, Olga Gundobina, Nato Vashakmadze, Andrey Surkov, Magda Karkashadze, Andrey Getman, Alexandr Pushkov, Anna Veselova, Dmitry Kapilushniy, Tina Gogberashvili, Goar Movsisyan, Liliya Osipova, Julia Ermolina, Tatiana Konstantinidi, Anastasia Solovieva, Alexey Firumyants, Ekaterina Khrameeva, Boris A. Gutman, Vladimir L. Zelman, Paul M. Thompson, Alexandr Baranov

(2020). Abnormalities in the cerebral cortex in Gaucher disease type 1: findings from the ENIGMA Storage Disease working group, **Rare Diseases Congress 2020**, Barcelona, Spain, July 2020.

### **CROI 2020**

1144.Mollie A. Monnig, Peter M. Monti, Karen Tashima, Joseph M. Gullett, Eric Porges, Neda Jahanshad, Paul Thompson, Talia Nir, and Ronald A. Cohen (2020). Alcohol Use Is Associated with Degradation of Brain White Matter in HIV Infection, CROI 2020.

### **ADPD 2020**

1145.Laansma, M; Bright, Joanna; Harmsen, Mathijs; Gutman, Boris; Ching, Christopher RK; Rummel, Christian; Wiest, Roland; Debove, Ines; Piras, Fabrizio; Spalletta, Gianfranco; Yasuda, Clarissa; Cendes, Fernando; van den Heuvel, Odile; Al-Bachari, Sarah; Parkes, Laura; McMillan, Corey; Jahanshad, Neda; Thompson, Paul; van der Werf, Ysbrand (2020). Bidirectional Changes in Subcortical Shape Derived Local Thickness Measures: an ENIGMA-Parkinson's Disease Mega-Analysis (N=1649), ADPD 2020, Vienna, April 2-5 2020.

1146.Pradeep Lam, Daniel C. Moyer, Alyssa Zhu, Neda Jahanshad, **Paul M. Thompson** (2020). Comparison of Deep Learning Methods for Brain Age Prediction, ADPD 2020, Vienna, April 2-5 2020.

1147.Sophia I. Thomopoulos, Christopher R. K. Ching, Christina P. Boyle, Adam Mezher, Artemis Zavaliangos-Petropulu, Talia M. Nir, Neda Jahanshad, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (2020). Brain Amyloid Load is Associated with Faster Rates of Brain Atrophy in Normal Aging and Cognitive Impairment, **2nd AAT-ADPD™ Focus Meeting** 2020, Vienna, Austria, April 2-5 2020.

1148.T. Nir<sup>1</sup>, J. Villalon-Reina<sup>1</sup>, S. Thomopoulos<sup>1</sup>, R. Reid<sup>2</sup>, M. Bernstein<sup>2</sup>, B. Borowski<sup>3</sup>, C. Jack Jr<sup>3</sup>, M. Weiner<sup>4</sup>, N. Jahanshad<sup>1</sup>, P. Thompson (2020). THE DIFFUSION MEAN APPARENT PROPAGATOR REVEALS DIFFERENTIAL PATTERNS OF WHITE MATTER MICROSTRUCTURAL ABNORMALITIES IN COGNITIVELY IMPAIRED AND AMYLOID POSITIVE INDIVIDUALS, **2nd AAT-ADPD™ Focus Meeting** 2020, Vienna, Austria, April 2-5 2020.

### **INTS 2020**

1149.Emily L Dennis<sup>1,2</sup>, Karen Caeyenberghs<sup>3</sup>, Robert F Asarnow<sup>4-6</sup>, Talin Babikian<sup>4,7</sup>, Brenda Bartnik-Olson<sup>8</sup>, Erin D Bigler<sup>1,9,10</sup>, Anthony Figaji<sup>11,12</sup>, Christopher C Giza<sup>7,13</sup>, Naomi J Goodrich-Hunsaker<sup>1,9,14</sup>, Cooper B Hodges<sup>1,9,14</sup>, Kristen Hoskinson<sup>15,16</sup>, **Marsh Königs**, Harvey Levin<sup>17,18</sup>, Hannah M Lindsey<sup>1,9,14</sup>, Abigail Livny<sup>19,20</sup>, Jeffrey E Max<sup>21,22</sup>, Tricia Merkley<sup>9</sup>, Mary R Newsome<sup>17,18</sup>, Alexander Olsen<sup>23,24</sup>, Nicholas P Ryan<sup>3,25,26</sup>, Matthew S Spruiell<sup>17</sup>, Stacy J Suskauer<sup>27,28</sup>, Sophia Thomopoulos<sup>2</sup>, Ashley L Ware<sup>29</sup>, Christopher G Watson<sup>30</sup>, Anne L Wheeler<sup>31,32</sup>, Keith O Yeates<sup>29,33,34</sup>, Brandon A Zielinski<sup>1,35</sup>, Paul M Thompson<sup>2,36</sup>, David F Tate<sup>1,14,37</sup>, Elizabeth A Wilde (2020). **White Matter Disruption after Pediatric Moderate/Severe TBI: Results from the ENIGMA Pediatric mTBI Working Group, submitted to INTS 2020.**

## ISMRM 2020

1150. Julio E. Villalon-Reina, Talia M. Nir, Sophia I. Thomopoulos, Lauren E. Salminen, Neda Jahanshad, Rutger Fick, Matteo Frigo, Rachid Deriche, Paul M. Thompson and ADNI (2020). Tracking microstructural biomarkers of Alzheimer's disease via advanced multi-shell diffusion MRI scalar measures, submitted to **ISMRM 2020**.

## SIRS 2020

1151. Matthias Kirschner\*, Benazir Hodzic-Santor\*, Tilo Kircher, Axel Krug, Igor Nenadic, Alex Fornito, Melissa Green, Yann Quidé, Christos Pantelis, Udo Dannlowski, Dominik Grotegerd, Pamela DeRosse, Raymond Chan, Martin Debbane, Wulf Rössler, Irina Lebedeva, Haeme Park, Kristina Wiebels, Mathilde Antoniades, Jan-Bernard Marsman, James Gilleen, Anne Fett, Theo G. M. van Erp, Jessica A. Turner, Paul M. Thompson, Andre Aleman, Gemma Modinos, Stefan Kaiser\*, Alain Dagher\* for the ENIGMA Schizotypy Working Group (2020). Thicker prefrontal cortex is associated with subclinical negative symptoms in schizotypy - an ENIGMA consortium meta-analysis, submitted to SIRS 2020.
1152. Sonja de Zwarte, Rachel Brouwer, Rene Kahn, Theo G. M. van Erp, Jessica A. Turner, Ole A. Andreassen, Christopher R.K. Ching, Neda Jahanshad, Paul M. Thompson, Neeltje van Haren, ENIGMA-Relatives (2020). The effect of intelligence and educational attainment on the brain in those with familial high risk for schizophrenia or bipolar disorder: an ENIGMA-Relatives study, submitted to SIRS 2020.
1153. Modinos G and the ENIGMA Schizophrenia Schizotypy Working Group (2020). Cortical Neuroanatomical Signature of Schizotypy in 2,695 Individuals Assessed in a Worldwide ENIGMA Study, submitted to SIRS 2020.

## SOBP 2020

1154. Paul M. Thompson and the ENIGMA Consortium (2020). ENIGMA and Global Neuroscience: A Decade of Large-Scale Studies of the Brain in Health and Disease across More than 40 Countries, SOBP 2020 (part of accepted symposium by Yogesh Rathi and Martha Shenton).
1155. Rajendra Morey, Lauren Salminen, Xin Wang, Emily L. Dennis, Mark Logue, Delin Sun, Gopalkumar Rakesh, Emily Clarke, Ashley N Clausen, Neda Jahanshad, Paul Thompson and the ENIGMA-PGC PTSD Working Group (2020). Multisite ENIGMA and PGC Consortium Findings from Multimodal Neuroimaging of Posttraumatic Stress Disorder (PTSD), SOBP 2020 (Symposium Presentation).
1156. Ling-Li Zeng<sup>1,2</sup>, Christopher R. K. Ching<sup>2</sup>, Tomas Hajek<sup>3</sup>, Boris A. Gutman<sup>4</sup>, ..., Colm McDonald<sup>5</sup>, Dewen Hu<sup>1</sup>, Paul M. Thompson<sup>2</sup> (2020). **Machine learning on vertex-wise brain shape metrics improves the diagnostic classification of bipolar disorders**, submitted to **SOBP 2020**.

1157. Bhim M. Adhikari<sup>1†</sup>, L. Elliot Hong<sup>1</sup>, J. J. Wang<sup>2</sup>, Laura M. Rowland<sup>1</sup>, Neda Jahanshad<sup>3</sup>, Paul M. Thompson<sup>3</sup>, Meghann C. Ryan<sup>1</sup>, Katie Hatch<sup>1</sup>, Chen Shou<sup>1</sup>, Peter Kochunov (2020). **Genetic Control over Cerebral Blood Flow and Resting State Regional Homogeneity Signal**, submitted to **SOBP 2020**.
1158. Moreau C., Urchs S., Huguet G., Sharmarke H., Modenato C., Douard E., Dos Santos Silva A., Linden D., Thompson P.M., Lippe S., Bearden C., Maillard A., Bellec P.\*, Jacquemont S.\* (2020). **Functional Connectivity Analyses Suggest Shared Molecular Mechanisms across 12 Neuropsychiatric Mutations, Autism and Schizophrenia**, submitted to **SOBP 2020**.
1159. Pradeep Lam, Alyssa Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2020). Comparison of Deep Learning Methods for Brain Age Prediction, submitted to **SOBP 2020**.
1160. Rajendra A. Morey, Lea Waller, Aurelio Falconi, Courtney C. Haswell, Emily C. Clarke, Marc Büttner, Elena Pozzi, Yara Toenders, Neda Jahanshad, Paul M. Thompson, Lianne Schmaal, Ilya Veer (2020). ENIGMA resting-state fMRI pipeline with high-level analysis and support for large-scale multi-site consortium analyses. Submitted to **SOBP 2020 (Late Breaking Abstract)**.
1161. Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2020). **Altered White Matter Microstructure in Carriers of 16p11.2 Copy Number Variants**. Submitted to **SOBP 2020 (Late Breaking Abstract)**.
1162. **Mary S. Mufford**<sup>1</sup>, Dennis van der Meer<sup>2</sup>, Shareefa Dalvie<sup>3</sup>, Raj Ramesar<sup>1</sup>, Paul M. Thompson<sup>5</sup>, Rajendra Morey<sup>6,7</sup>, Ole' Andreassen<sup>2</sup>, Dan J. Stein (2020). **Amygdala Nuclei: Heritability and Relationship with Posttraumatic Stress Disorder**, Submitted to **SOBP 2020 (Late Breaking Abstract)**.

#### **RSA (Research Society on Alcoholism) 2020**

1163. Mollie A. Monnig, Peter M. Monti, Karen Tashima, Joseph M. Gullett, Eric Porges, Neda Jahanshad, Paul Thompson, Talia Nir, and Ronald A. Cohen (2020). Alcohol Use and Inflammation Predict White Matter Abnormality in People Living with HIV Infection, RSA (Research Society on Alcoholism) 2020.

#### **OHBM 2020 (23 abstracts)**

1164. Artemis Zavaliangos-Petropulu, Meral A. Tubi, Elizabeth Haddad, Alyssa Zhu, Neda Jahanshad, Paul M. Thompson, Sook-Lei Liew (2020). Deep Convolutional Neural Network Approach Improves Hippocampal Segmentations in Stroke Population, **OHBM 2020**, Montreal, June 2020.

1165. Lauren E. Salminen, Fabrizio Pizzagalli, Alyssa H. Zhu, Talia M. Nir, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). *APOE4* genotype and air pollution interact to predict brain structure in healthy adults in UK Biobank, **OHBM 2020**, Montreal, June 2020.
1166. Joanna Bright, Alyssa H Zhu, Lauren E Salminen, Paul M Thompson, Neda Jahanshad (2020). White matter microstructural deficits in 364 adults with a history of suicide attempts, **OHBM 2020**, Montreal, June 2020.
1167. Christina P. Boyle, Cyrus A. Raji<sup>2</sup>, Kirk I. Erickson<sup>3</sup>, Oscar L. Lopez<sup>4</sup>, James T. Becker<sup>3,4,5</sup>, H. Michael Gach<sup>6</sup>, Lewis H. Kuller<sup>7</sup>, W. T. Longstreth, Jr<sup>8</sup>, Owen T. Carmichael<sup>9</sup>, Paul M. Thompson (2020). Brain aging, estrogen, and APOE genotype, **OHBM 2020**, Montreal, June 2020.
1168. Pradeep Lam, Alyssa H. Zhu, Lauren E. Salminen, Parth Suresh, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2020). Brain Age prediction from structural MRI using Deep Learning & Information-theoretic divergence measures, **OHBM 2020**, Montreal, June 2020.
1169. Ling-Li Zeng, Christopher R. K. Ching, Tomas Hajek, Boris A. Gutman, Sophia I. Thomopoulos, Dewen Hu, Jair Soares, Benson Irungu, David Glahn, Colm McDonald, Giulia Tronchin, Dara Cannon, Ingrid Agartz, Lars T. Westlye, Paul M. Thompson, Ole A. Andreassen, The ENIGMA Bipolar Disorder Working Group (2020). Multi-site bipolar disorder classification using subcortical shape morphometry, **OHBM 2020**, Montreal, June 2020.
1170. Moreau C., Huguet G., Urchs S., Sharmarke H., Modenato C., Kumar K., Douard E., Dos Santos Silva A., Linden D., Lippe S., Bearden C.E., Maillard A.M., Thompson P.M., Bellec P.\*, Jacquemont S.\* (2020). High-risk psychiatric mutations affect functional connectivity along parsimonious dimensions shared across genomic loci, **OHBM 2020**, Montreal, June 2020.
1171. Qifan Yang, Sophia I. Thomopoulos, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Genetic Associations in Diagnostic Specific Trajectories Revealed with Autoregressive Mixed Models, **OHBM 2020**, Montreal, June 2020.
1172. Talia M. Nir, Julio E. Villalon-Reina, Alyssa Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Meral A. Tubi, Piyush Maiti, Paul M. Thompson, Neda Jahanshad (2020). Hippocampal Microstructural Abnormalities in Cognitively Impaired and Amyloid Positive Individuals, **OHBM 2020**, Montreal, June 2020.
1173. Wesley Surento, Iyad Ba Gari, Zhe Sun, Joshua Boyd, Hosung Kim, Paul M. Thompson, Rowena G. Cayabyab, Mark S. Shiroishi, Neda Jahanshad (2020). Maternal Health Factors and Intracranial Hemorrhage Associations with Preterm Neonates' Brain Volume, **OHBM 2020**, Montreal, June 2020.

1174. Iyad Ba Gari, Shruti Gadewar, Wesley Surento, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Age-related Choroid Plexus Calcification: Associations with subcortical brain volumes and hypertension, **OHBM 2020**, Montreal, June 2020.
1175. Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Sex specific neurodevelopmental associations with maternal and paternal history of suicide in ABCD, **OHBM 2020**, Montreal, June 2020.
1176. Elizabeth Haddad, Alyssa H Zhu, Shruti Gadewar, Iyad Ba Gari, Pradeep Lam, Talia M Nir, Paul M Thompson, Neda Jahanshad (2020). Identifying lifestyle factors that promote brain resilience in carriers of two ApoE4 risk variants, **OHBM 2020**, Montreal, June 2020.
1177. Max Laansma, Joanna Bright, Boris Gutman, Christian Rummel, Ines Debove, Cristiane Rocha, Clarissa Yasuda, Kathleen Poston, Roland Wiest<sup>9</sup>, Fernando Cendes<sup>7</sup>, Odile A. van den Heuvel<sup>1</sup>, Chris Vriend<sup>1</sup>, Henk W. Berendse<sup>1</sup>, Fabrizio Piras<sup>10</sup>, Gianfranco Spalletta<sup>10</sup>, Jason Druzgal<sup>11</sup>, Jamie Blair<sup>11</sup>, Toni Pitcher<sup>13</sup>, Tracy Melzer<sup>13</sup>, Sarah Al-bachari<sup>14</sup>, Laura Parkes<sup>14</sup>, Hedley Emsley<sup>14</sup>, Rob de Bie<sup>1</sup>, Mario Rango<sup>15</sup>, Corey McMillan<sup>16</sup>, Petra Swingenschuh<sup>17</sup>, Reinhold Schmidt<sup>17</sup>, Juin-Jie Wang<sup>18</sup>, Johannes Klein<sup>19</sup>, Claire Mackay<sup>19</sup>, Gaëtan Garraux<sup>20</sup>, Katherine Baquero Duarte<sup>20</sup>, Rick Helmich<sup>21</sup>, Bas Bloem<sup>21</sup>, Neda Jahanshad<sup>2</sup>, Paul M Thompson<sup>2</sup>, Ysbrand D. Van der Werf<sup>1</sup> (2020). Mega-Analysis Shows Brain Structure Abnormalities in Parkinson's Disease Related to Disease Severity, **OHBM 2020**, Montreal, June 2020.
1178. Bhim M. Adhikari, L. Elliot Hong, Neda Jahanshad, Paul M. Thompson, Peter Kochunov (2020). Heritability estimates on rsfMRI phenotypes using the ENIGMA analysis pipeline, **OHBM 2020**, Montreal, June 2020.
1179. Heather C. Bouchard, Delin Sun<sup>1,2</sup>, Emily L. Dennis<sup>3,4,5,6</sup>, Seth G. Disner<sup>7,8</sup>, Jeremy Elman<sup>9,10</sup>, Annelise Silva<sup>11</sup>, Carmen Velez<sup>3,4</sup>, Mary R. Newsome<sup>12,13</sup>, Maya Troyanskaya<sup>12,13</sup>, Nicholas D. Davenport<sup>7,8</sup>, Scott R. Sponheim<sup>7,8</sup>, Randall S. Scheibel<sup>12,13</sup>, Benjamin S.C. Wade<sup>14,15</sup>, Carol E. Franz<sup>9,10</sup>, William S. Kremen<sup>9,10,16</sup>, Michael J. Coleman<sup>11</sup>, Wright Williams, Harvey S. Levin<sup>12,13</sup>, Elbert Geuze<sup>18,19</sup>, Inga K. Koerte<sup>11</sup>, Maheen M. Adamson, Raul Coimbra<sup>22</sup>, Gerald Grant, Lori Shutter<sup>24</sup>, Mark S. George<sup>25</sup>, Ross Zafonte<sup>26</sup>, Thomas McAllister<sup>27</sup>, Martha E. Shenton<sup>11</sup>, Murray Stein, Paul M. Thompson<sup>5,9,3</sup>, Elisabeth A. Wilde<sup>3,4,12</sup>, David F. Tate<sup>3,4</sup>, Aristeidis Sotiras, Rajendra A. Morey (2020). White Matter Microstructural Abnormalities in Military-related Traumatic Brain Injury: Results from an ENIGMA Military Brain Injury Mega-Analysis, **OHBM 2020**, Montreal, June 2020.
1180. Muhammad Adeel Parvaz, PhD<sup>1</sup>, Fatima Mubarak, MBBS, FCPS<sup>2</sup>, Emily Dennis, PhD,<sup>3</sup> Syed Ather Enam, MD, PhD, FRCSI, FRCSC, FACS<sup>2</sup>, Paul Thompson, PhD<sup>4</sup>, Xiaojian Kang, PhD<sup>5</sup>, Adeel Razi, PhD<sup>6,7,8</sup> & Maheen M. Adamson, PhD (2020). Impact



of Brain Injury on Dementia: Preliminary Results from a Pakistani Cohort, **OHBM 2020**, Montreal, June 2020.

1181. Yann Quidé, Emiliana Tonini, Dominik Grotegerd, Udo Dannlowski<sup>2</sup>, Tilo Kircher<sup>3</sup>, Axel Krug<sup>3</sup>, Igor Nenadic<sup>3</sup>, Tina Meller<sup>3</sup>, Bernhard Baune<sup>2</sup>, Pamela DeRosse<sup>4</sup>, Ashley Moyett<sup>4</sup>, Lukasz Smigielski<sup>5</sup>, Wulf Rössler<sup>5</sup>, Mathilde Antoniadou<sup>6</sup>, Theo G. M. van Erp<sup>7</sup>, Paul M. Thompson<sup>8</sup>, André Aleman<sup>9</sup>, Gemma Modinos<sup>10</sup>, Melissa J. Green (2020). Childhood trauma, schizotypy and subcortical grey matter volume: An ENIGMA mega-analysis, **OHBM 2020**, Montreal, June 2020.
1182. Meghann C. Ryan, Fengmei Fan, Kathryn S. Hatch, Shuping Tan, Neda Jahanshad<sup>3</sup>, Paul M. Thompson<sup>3</sup>, Theo G.M. van Erp<sup>4</sup>, Jessica A. Turner<sup>5</sup>, Shuo Chen<sup>1</sup>, Yunlong Tan<sup>2</sup>, L. Elliot Hong<sup>1</sup>, Peter Kochunov (2020). Translating ENIGMA-Schizophrenia Big Data findings to the Individual: Regional Vulnerability Index, **OHBM 2020**, Montreal, June 2020.
1183. Philipp G. Sämann, Juan Eugenio Iglesias, Boris A. Gutman, Theo G.M. van Erp, Christopher D. Whelan, Neda Jahanshad, Lianne Schmaal, Paul M. Thompson, Michael Czisch (2020). Networks behind hippocampal subfields: results from a morphological covariance analysis in 293 healthy subjects, **OHBM 2020**, Montreal, June 2020.
1184. Paul M. Thompson (2020). Genetic determinants of brain structure; in Symposium “Neuropsychiatric genetic variation shapes brain architecture by modulating gene expression,” proposed by Sebastien Jacquemont, **OHBM 2020**, Montreal, June 2020.
1185. Sara Larivière, Maria Eugenia Caligiuri, ENIGMA Epilepsy Working Group, Carrie R. McDonald, Antonio Gambardella, Angelo Labate, Andrea Bernasconi, Neda Bernasconi, Boris C. Bernhardt (2020). Network-based atrophy modelling in the common epilepsies: A Worldwide ENIGMA Study, **OHBM 2020**, Montreal, June 2020.
1186. Sara Larivière, Maria Eugenia Caligiuri, ENIGMA Epilepsy Working Group, Antonio Gambardella, Andrea Bernasconi, Neda Bernasconi, Carrie R. McDonald, Angelo Labate, Boris C. Bernhardt (2020). Structural covariance network changes in focal and generalized epilepsies: a worldwide ENIGMA study, **OHBM 2020**, Montreal, June 2020.

### **AAIC 2020 (10 abstracts)**

1187. Thompson PM (2020). Imaging Genomics in the ENIGMA Consortium, in a symposium entitled: Multi-omics and big data analytics: from understanding disease heterogeneity to precision diagnostics, AAIC 2020, July 2020.
1188. Rachel M Brouwer, Marieke Klein, Katrina L Grasby, Hugo G Schnack, Neda Jahanshad, Jalmar Teeuw, Sarah E Medland, Barbara Franke, Paul M Thompson

and Hilleke E Hulshoff Pol, for the ENIGMA plasticity working group. **Genetic markers for brain plasticity**, AAIC 2020, July 2020.

1189. Artemis Zavaliangos-Petropulu, Meral A. Tubi, Elizabeth Haddad, Alyssa Zhu, Neda Jahanshad, Paul M. Thompson, Sook-Lei Liew (2020). Automated Hippocampal Segmentation Improved by Convolutional Neural Network Approach in Participants with History of Cerebrovascular Accident, **AAIC 2020**.
1190. Meral A Tubi, Elizabeth Matsiyevskiy, Matthew Hapenney, Brandalyn C Riedel, Wendy Mack, Kevin King, Paul M Thompson, Meredith N Braskie (2020). **Cardiovascular Risk Modifies the Relationship of VEGF to Glucose Metabolism in Vascular Territories in Alzheimer's Disease**, AAIC 2020.
1191. Ching C, Abaryan Z, Santhalingam V, Zhu A, Bright J, Jahanshad N, Thompson PM (2020). **Complex morphometric effects of sex and aging on subcortical brain structures (N=9,872)**, AAIC 2020.
1192. Abaryan Z, Ching C, Santhalingam V, Zhu A, Bright J, Jahanshad N, Thompson PM (2020). **Sex differences in subcortical aging: A nomogram study of age, sex, and APOE (N=9,414)**, AAIC 2020.
1193. Julio E. Villalón-Reina, Talia M. Nir, Sophia I. Thomopoulos, Lauren E. Salminen, Neda Jahanshad, and Paul M. Thompson (2020). Evaluating NODDI-based biomarkers of Alzheimer's disease, AAIC 2020.
1194. Sophia I. Thomopoulos, Talia M. Nir, Julio E. Villalón-Reina, Neda Jahanshad, Paul M. Thompson (2020). Diffusion MRI metrics of brain microstructure in Alzheimer's disease: Boosting disease sensitivity with multi-shell imaging and advanced preprocessing, AAIC 2020.
1195. Talia M. Nir, Lauren E. Salminen, Julio E. Villalón-Reina, Meral A. Tubi, Sophia I. Thomopoulos, Piyush Maiti, Meredith Braskie, Paul M. Thompson, Neda Jahanshad (2020). Hippocampal Subfield Microstructure Abnormalities Mediate Associations between Tau Burden and Memory Performance, AAIC 2020.
1196. Pradeep Lam, Alyssa H. Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). Comparison of Deep Learning Methods for Brain Age Prediction, AAIC 2020.

**SIRS 2020, SOBP 2020, APS 2020, MIDL 2020**

1197. Maria Jalbrzikowski, ..., **Paul Thompson**, Dennis Hernaus (2020). Subcortical volume and cortical thickness findings from the ENIGMA Clinical High Risk for Psychosis Working Group, **SIRS 2020**.

1198. Maria Jalbrzikowski, ..., **Paul Thompson**, Dennis Hernaus (2020). Subcortical volume and cortical thickness findings from the ENIGMA Clinical High Risk for Psychosis Working Group, **SOBP 2020, late breaking abstract**.
1199. **Matthew D. Turner**<sup>1</sup>, Harshvardhan Gazula<sup>1</sup>, Peter Kochunov<sup>2</sup>, Paul Thompson<sup>3</sup>, Neda Jahanshad<sup>3</sup>, Chris Ching<sup>3</sup>, Fabrizio Pizzagalli<sup>3</sup>, Gregory P. Strauss<sup>4</sup>, Anthony O. Ahmed<sup>5</sup>, ENIGMA Schizophrenia Working Group<sup>6</sup>, Vince D. Calhoun<sup>1</sup>, Theo G.M. van Erp<sup>7</sup> and Jessica A. Turner<sup>1</sup> (2020). **ENIGMA COINSTAC: Increasing Neuroimaging Data Diversity with Managed Privacy, 32<sup>nd</sup> Annual APS** (Association for Psychological Science) Convention, Chicago, May 21-24 2020.
1200. Daniel C. Moyer, Greg ver Steeg, Chantal Tax, **Paul Thompson (2020)**. Overview of Scanner Invariant Representations, submitted to MIDL 2020, International Conference on Medical Imaging with Deep Learning, Montréal, 6 - 8 July 2020.
1201. Sean R. McWhinney, Holly van Gestel, Martin Alda, ... Chris Ching, Paul Thompson, ... Tomas Hajek (2020). Obesity mediates larger ventricular volumes in bipolar disorders – ENIGMA study in 2438 individuals, International Society for Bipolar Disorders (2020) – Late Breaking Abstract, 2020.

#### **ECNP 2020**

1202. Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, David Romascano, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2020). **Altered neurite density and dispersion in the white matter of carriers of 16p11.2 copy number variants, submitted to ECNP 2020.**
1203. **Clara Moreau, Paul Thompson, Seb Jacquemont (2020). Genetics and Connectomics of Schizophrenia and Autism: Recent progress towards underlying mechanisms, submitted to ECNP 2020.**

#### **EMBC 2020 (6 abstracts)**

1204. Christopher R. K. Ching, Zvart Abaryan, Vineshwaran Santhalingam, Alyssa Zhu, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). **Large-scale Percentile Charts & Surface-Based Maps Reveal Sex Differences in Brain Aging (N=26,440)**, submitted to EMBC 2020, April 18 2020.
1205. Leila Nabulsi, Katherine E. Lawrence, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalón-Reina, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, and Paul M. Thompson (2020). **Sex and hormone replacement therapy influence aging trajectories when using advanced diffusion-weighted MRI metrics in the UK Biobank (N=8,863)**, submitted to EMBC 2020, April 18 2020.
1206. Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalón-Reina, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, and Paul M. Thompson (2020). **Advanced diffusion-weighted MRI metrics more sensitively detect white matter changes associated with age in the UK Biobank**, submitted to EMBC 2020, April 18 2020.

1207. Sophia I Thomopoulos, Christina P Boyle, Christopher RK Ching, Talia M Nir, Artemis Zavaliangos-Petropulu, Adam Mezher, Neda Jahanshad, Michael W Weiner, Clifford R Jack, Jr, and Paul M. Thompson for the Alzheimer's Disease Neuroimaging Initiative (2020). Brain Atrophy Rates in Healthy Aging, MCI and Alzheimer's Disease: Relation to Amyloid Positivity and MRI Scan Acceleration, submitted to EMBC 2020, April 18 2020.
1208. Iyad Ba Gari, Xingyu Wei, Shruti P. Gadewar, Wesley Surento, Joshua Boyd, Paul M. Thompson, Neda Jahanshad (2020). A U-Net based tool for Gibbs artifact removal from quantitative susceptibility maps, submitted to EMBC 2020, April 18 2020.
1209. Shruti P. Gadewar, Iyad Ba Gari, Wesley Surento, Joshua Boyd, Paul M. Thompson, Neda Jahanshad (2020). **Deep Learning to predict the brain's morphological trajectories**, submitted to EMBC 2020, April 2020.
- ASHG 2020**
1210. Stephanie J. Loomis<sup>1</sup>, Jimmy Z. Liu<sup>1</sup>, Saranya Duraisamy<sup>2</sup>, Megan Jensen<sup>2</sup>, Donald G. McLaren<sup>2</sup>, Alyssa Zhu<sup>3</sup>, Sarah Medland<sup>4</sup>, Pradeep Lam<sup>3</sup>, **Paul M. Thompson<sup>3</sup>**, Neda Jahanshad<sup>3</sup>, Christopher D. Whelan (2020). [Brain age gap is associated with 17q21 MAPT inversion, ASHG 2020.](#)
- AD/PD 2021**
1211. Talia M. Nir<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Alyssa Zhu<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Piyush Maiti<sup>1</sup>, Lauren E. Salminen<sup>1</sup>, Robert I. Reid<sup>2</sup>, Matthew A. Bernstein<sup>2</sup>, Bret Borowski<sup>3</sup>, Clifford R. Jack, Jr.<sup>3</sup>, Michael W. Weiner<sup>4</sup>, Paul M. Thompson<sup>1</sup>, Neda Jahanshad (2020). MULTI COMPARTMENT DIFFUSION MRI MEASURES CAPTURE MICROSTRUCTURAL ASSOCIATIONS WITH AMYLOID AND TAU PET MEASURES IN THE CORTEX, submitted to AD/PD 2021, Sept. 2020.
1212. Foivos Georgiadis, Sara Larivière, Yann Quide, Melissa Green, Axel Krug, Tilo Kircher, Raymond Salvador, Edith Pomarol-Clotet, Gianfranco Spalletta, Aristotle Voineskos, Kang Sim, Benedicto Crespo, Diana Tordesillas Gutiérrez, Nicolas Crossley, Vince Calhoun, Stefan Borgwardt, Stefan Kaiser, Ellen Ji, Philipp Homan, Theo G. M. van Erp, Jessica A. Turner, Paul M. Thompson, Boris Bernhardt and Matthias Kirschner for the ENIGMA Schizophrenia working group (2020). **Brain Network Architecture Influences Morphological Abnormalities in Major Psychiatric Disorders**, submitted to SIRS 2021.
- SOBP 2021 (13 abstracts)**
1213. Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, Paul M. Thompson (2021). Impact of Aging and Sex on Advanced Diffusion-Weighted MRI Measures of White Matter Microstructure, **SOBP 2021.**
1214. Natalia Shatokhina, Katrina L. Grasby, Neda Jahanshad, Jason L. Stein, Sarah E. Medland, Paul M. Thompson (2021). ENIGMA-Vis: A Web Portal to Browse, Navigate & Visualize Brain Genome-Wide Association Studies (GWAS), **SOBP 2021.**

1215. Leila Nabulsi, Neda Jahanshad, Paul M. Thompson, Christopher R. K. Ching, Ole A. Andreassen & Dara M. Cannon for the ENIGMA Bipolar Disorder Working Group (2021). Large-Scale Replication of Bipolar Disorder Dysconnectivity: A Diffusion MRI Analysis of 959 Individuals from the ENIGMA Bipolar Disorder Working Group, **SOBP 2021**.
1216. Theo van Erp, Paul E Rasser, Ulrich Schall, Anton Albajes-Eizagirre, Tilo Kircher, Udo Dannlowski, Carlos López-Jaramillo, Ana Maria Diaz-Zuluaga, Julián Pineda-Zapata, Ingrid Agartz, Yann Quidé, Melissa Green, Stefan Ehrlich, Kathryn Alpert, Lei Wang, Theodore Satterthwaite, Stefan Kaiser, Matthias Kirschner, André Aleman, Jan-Bernard Marsman, Gianfranco Spalletta, Nerisa Banaj, Joaquim Radua, Stefan Borgwardt, Bingchen Gao, Paul M. **Thompson**, Vince Calhoun, Jessica Turner, ENIGMA Schizophrenia Working Group (2021). Deep Brain Structure Volume and Cortical Thickness Associations with Negative Symptom Domains in Schizophrenia, **SOBP 2021**.
1217. Talia M. Nir<sup>1</sup>, Julio E. Villalon-Reina<sup>1</sup>, Alyssa Zhu<sup>1</sup>, Paul M. Thompson<sup>1</sup>, \* Peter Kochunov<sup>2\*</sup>, Neda Jahanshad (2021). Sensitivity of NODDI Microstructural Measures to the Effects of Age With and Without White Matter Skeletonization, **SOBP 2021**.
1218. Ravi Bhatt, Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). Morphological Differences in Brain Structure in Chronic Pain in a Big Data Sample, **SOBP 2021**.
1219. Ann Alex, Fernando Aguatero, Anqi Qiu, Claudia Buss, Dan Stein, Jessica Girault, John Gilmore, Joseph Piven, Kirsten A. Donald, Lilla Zöllei, Martin Styner, Michael Skeide, Nadine Gaab, Paul M. **Thompson**, Weili Lin, Gustavo de los Campos, Rebecca Knickmeyer, On behalf of the ENIGMA-ORIGINS working group (2021). Demographic and Obstetric Factors Shape the Development of Intracranial Volume and Subcortical Structures in Infancy and Early Childhood, **SOBP 2021**.
1220. Matthias Kirschner, Benazir Hodzic-Santor, Mathilde Antoniades, Igor Nenadic, Tilo Kircher, Axel Krug, Alex Fornito, Aurina Arnatkeviciute, Udo Dannlowski, Pamela DeRosse, Bernhard T. Baune, Melissa Green, Yann Quidé, Christos Pantelis, Raymond Chan, Ulrich Ettinger, Martin Debbané, Melodie Derome, Christian Gaser, Bianca Besteher, Kelly Diederer, Tom J Spencer, Paul Fletcher, Wulf Rössler, Veena Kumari, Haeme Park, Imke Lemmers-Jansen, James Gilleen, Paul Allen, Jan-Bernard Marsman, Irina Lebedeva, Stefan Kaiser, Anne-Kathrin Fett, Iris Sommer, Sara Larivière, Boris C. Bernhardt, Alain Dagher, Theo G. M. van Erp, Jessica A. Turner, Paul M. **Thompson**, André Aleman, Gemma Modinos for the Schizotypy Working Group (2021). Cortical and Subcortical Neuroanatomical Signatures of Schizotypy in 2,952 Individuals Assessed in a Worldwide ENIGMA Study, **SOBP 2021**.
1221. Claudia Barth, Sinead Kelly, Stener Nerland, Tiril P. Gurholt, Clara Alloza, Celso Arango, Nerisa Banaj, Carrie Bearden, Micheal Berk, Hannes Bohman, Yann Chye, Benedicto Crespo-Facorro, Morgan Hough, Neda Jahanshad, Anthony James, Joost Janssen, Cecilie Johannessen, Katherine H. Karlsgodt, Peter Kochunov, Mathias Lundberg, Runar E. Smelror, Gianfranco Spalletta, Chao Suo, Sophia I. Thomopoulos, Diana Tordesillas-Gutiérrez, Kirsten Wedervang-Resell, Anne M. Myhre, Ole A. Andreassen, Paul M. **Thompson**, Ingrid Agartz (2021). Investigating

White Matter Microstructure in Adolescent Early Onset Psychosis via the Enigma Consortium, **SOBP 2021**.

1222.Foivos Georgiadis, Sara Lariviere, Vaughan Carr, Stanley Catts, Melissa Green, Frans Henskens, Assen Jablensky, Bryan Mowry, Patricia Michie, Christos Pantelis, Yann Quidé, Alex Krug, Tilo Kircher, Raymond Salvador, Edith Pomarol-Clotet, Gianfranco Spalletta, Fabrizio Piras, Nerisa Banaj, Valentina Ciullo, Aristotle Voineskos, Kang Sim, Benedicto Crespo-Facorro, Diana Tordesillas-Gutiérrez, Nicolas Crossley, Juan Undurraga, Alfonso Gonzalez-Valderrama, Vince Calhoun, Stefan Borgwardt, Andre Schmidt, Christina Andreou, Stefan Kaiser, Erich Seifritz, Ellen Ji, Stephanie Homan, Philipp Homan, Jessica A. Turner, Theo van Erp, Paul M. **Thompson**, Boris Bernhardt, Matthias Kirschner (2021). Brain Network Architecture Intricately Linked to Morphological Abnormalities in Major Psychiatric Disorders, **SOBP 2021**.

1223.Dick Schijven, Simon E. Fisher, Barbara Franke, David C. Glahn, Ruben C. Gur, Ryota Hashimoto, Neda Jahanshad, Sarah E. Medland, Paul M. **Thompson**, Theo G. M. van Erp, Jessica A. Turner, Clyde Francks, ENIGMA Schizophrenia Working Group (2021). A Large-Scale Consortium Study of Brain Anatomical Asymmetries in Schizophrenia, **SOBP 2021**.

1224.Gopalkumar Rakesh, Delin Sun, Emily C. Clarke, Courtney Haswell, Paul M. **Thompson**, Emily Dennis, Neda Jahanshad, Rajendra Morey, ENIGMA Consortium (2021). Thalamic Nuclei Volumes in Posttraumatic Stress Disorder: - A Multisite PGC-ENIGMA PTSD Study, **SOBP 2021**.

1225.Tomas Hajek, Sean McWhinney, Christopher R.K. Ching, Ole A Andreassen, Paul M. **Thompson**, for the ENIGMA Bipolar Disorders Working Group (2021). Association Between Obesity and Subcortical Brain Volumes in Bipolar Disorders – ENIGMA Study in 2,735 Individuals, **SOBP 2021**.

### **ISMRM 2021**

1226.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, Paul M. Thompson (2021). Age and Sex Effects on Brain White Matter Microstructure assessed with Advanced Single- and Multi-Shell Diffusion MRI Metrics, accepted at **ISMRM 2021**.

1227.Luis M. García-Marín<sup>1,2\*</sup>, Brittany L. Mitchell<sup>1,3,4\*</sup>, Aoibhe Mulcahy<sup>1,3</sup> Lachlan T. Strike<sup>5</sup>, Greig I. de Zubicaray<sup>4</sup>, Katie McMahon<sup>6</sup>, **Paul M. Thompson**, Sarah E. Medland<sup>1</sup>, Nicholas G. Martin<sup>1</sup>, Margaret J. Wright<sup>5</sup>, Miguel E. Rentería<sup>1,2,3</sup> (2021). Parkinson's disease polygenic risk scores are associated with subcortical brain morphometry in young, healthy adults, submitted to the Movement Disorders Society Virtual Congress (Sep 17-22, 2021).

### **Flux Conference 2021**

1228.Katherine E. Lawrence, Emily Laltoo, James T. McCracken, Paul M. Thompson (2021). Sex differences in advanced measures of white matter microstructure among 9- to 10-year-old children in the ABCD study, Flux Conference, 2021.

**ASHG 2021, WCSBP 2021, AACAP 2021**

1229.Benjamin B. Sun, Stephanie Loomis, Fabrizio Pizzagalli, Alyssa Zhu, Iyad ba Gari, Daniel Dixon and Tasfiya Islam, Natalia Shatokhina, Megan Jensen, Donald McLaren, Spandana Chintapalli, Heiko Runz, Neda Jahanshad, **Paul M. Thompson**, Christopher D. Whelan (2021). Genetic map of human brain folding and links to developmental pathways and disease, ASHG 2021.

1230.**Thompson PM** (2021). The ENIGMA Consortium: Large-Scale Studies of Brain Genetics and Psychiatric Illness, in Symposium: **ENIGMA and the PGC: Large-scale studies of psychiatric genetics and brain imaging**, World Congress of Societies of Biological Psychiatry (WFSBP) 2021, June 2021.

1231.Katherine E. Lawrence, Emily Laltoo, James T. McCracken, **Paul M. Thompson** (2021). White Matter Microstructure is Associated with Participant Sex and Dimensional Psychopathology in Late Childhood, **AACAP 2021**, June 2021, submitted.

1232.Janna Marie Bas-Hoogendam, Rachel Bernstein, Brenda Benson, ..., **Paul M. Thompson**, P. Michiel Westenberg, Nic J. A. van der Wee, Nynke A. Groenewold, Dan J. Stein, Anderson M. Winkler, Daniel S. Pine on behalf of the ENIGMA-Anxiety Working Group (2021). Structural brain correlates of childhood inhibited temperament: rationale and methodology for an ENIGMA-Anxiety mega-analysis, **ECNP 2021**, submitted, May 2021.

**AAIC 2021 (9 abstracts)**

1233.Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). The relationship between APOE genotype and subcortical volume: A UK Biobank study (N=36,920), **AAIC 2021**.

1234.Christopher R. K. Ching, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Sex-dependent age trajectories of subcortical brain volume: A UK Biobank study (N=39,544), **AAIC 2021**.

1235.Pradeep Lam, Alex Muir, Alyssa H. Zhu, Neda Jahanshad, Paul M. Thompson (2021). Dementia-Sensitive Brain Age Prediction Using Attention-based Deep Learning, **AAIC 2021**.

1236.Talia M. Nir, Leila Nabulsi, Katherine E. Lawrence, Julio E. Villalon-Reina, Zvart Abaryan, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Paul M. Thompson, Neda Jahanshad, (2021). Effect of APOE4 and APOE2 genotype on white matter microstructure, **AAIC 2021**.

1237.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, M.D.; Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Emily Laltoo, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, Paul M. Thompson (2021). Advanced diffusion-weighted MRI methods

demonstrate improved sensitivity to white matter aging: Percentile charts for over 15,000 UK Biobank participants, **AAIC 2021**.

1238. Leila Nabulsi, Katherine E. Lawrence, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, Paul M. Thompson (2021). Age effects on white matter microstructure in individuals of self-identified Indian ancestry from the UK Biobank, **AAIC 2021**.

1239. Talia M. Nir, Julio E. Villalon-Reina, Elizabeth Haddad, Hong Zheng, Sophia I. Thomopoulos, Piyush Maiti, Alyssa Zhu, Paul M. Thompson, Neda Jahanshad (2021). Cortical microstructural associations with CSF amyloid and tau, **AAIC 2021**.

1240. Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, John P. John, Ganesan Venkatasubramanian, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Subcortical brain trajectories in later life between sexes and APOE genotypes: A UK Biobank study of individuals of self-identified Indian ancestry, **AAIC 2021**.

1241. Ali Ezzati, ..., Paul M. Thompson, et al. (2021). Predicting the risk of incident dementia in older adults: The ADNI-Dementia risk score, **AAIC 2021**.

#### **OHBM 2021 (21 abstracts)**

1242. Pradeep Lam, Alexandra M. Muir, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). 3D Attention Networks for Interpretable Age and Dementia Prediction from Structural MRI, **OHBM 2021**.

1243. Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Effects of APOE genotype on subcortical volume: A study of 41,615 MRI scans from the UK Biobank, **OHBM 2021**.

1244. Christopher R. K. Ching, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Large-scale analysis of sex differences in subcortical volume across the adult lifespan, **OHBM 2021**.

1245. Artemis Zavaliangos-Petropulu, Nerisa Banaj, Giuseppe Barisano, Michael Borich, Amy Brodtmann, Cathrin Buetefisch, Charalambos Charalambous, Valentina Ciullo, Adriana Conforto, Steven Cramer, Rosalia Dacosta-Aguayo, Wayne Feng, Kathryn Hayward, Brenton Hordacre, Steven Kautz, Mohamed Salah Khelif, Hosung Kim, Amy Kuceyeski, David Lin, Bethany Lo, Keith Lohse, Martin Lotze, Maria Mataro, Feroze Mohamed, Ander Ramos-Murguialday, Andrew Robertson, Nicolas Schweighofer, Na Jin Seo, Mark Shiroishi, Gregory Thielman, Nick Ward, Carolee Winstein, Steven Wolf, Kristin Wong, Paul Thompson, Sook-Lei Liew, ENIGMA Stroke Recovery Working Group (2021). Chronic stroke sensorimotor impairment correlates with spared hippocampal volume: An ENIGMA Analysis, **OHBM 2021**.



- 1246.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Emily Laltoo, Neda Jahanshad, Paul M. Thompson (2021). Advanced diffusion-weighted MRI sensitively detects age and sex effects in the corpus callosum, **OHBM 2021**.
- 1247.Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, David Romascano, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2021). Altered White Matter Diffusion Propagator Indices in Carriers of 16p11.2 Copy Number Variants, **OHBM 2021**.
- 1248.Ravi R. Bhatt, Alyssa H. Zhu, Elizabeth Haddad, Paul M. Thompson, Emeran A. Mayer, Neda Jahanshad (2021). Multivariate Brain Morphological Signatures Predict People Reporting Chronic Pains for over 2 Years, **OHBM 2021**.
- 1249.Talia M. Nir, Julio E. Villalon-Reina, Elizabeth Haddad, Hong Zheng, Sophia I. Thomopoulos, Piyush Maiti, Alyssa Zhu, Paul M. Thompson, Neda Jahanshad (2021). Regional amyloid and tau PET associations with cortical diffusion MRI microstructural measures, **OHBM 2021**.
- 1250.Elizabeth Haddad, Fabrizio Pizzagalli, Alyssa H. Zhu, Daniel Dixon, Tasfiya Islam, Paul M. Thompson, Neda Jahanshad (2021). Multisite Test-Retest Reliability and Compatibility of Brain Metrics derived from FreeSurfer Versions 5.3, 6.0, and 7.1, **OHBM 2021**.
- 1251.Weis, C. N., .. [long list of named authors], Paul M. Thompson, ..., Rajendra Morey and the ENIGMA-PGC PTSD Working Group (2021). Data-driven approach to dynamic resting state functional connectivity in post-traumatic stress disorder: an ENIGMA-PGC PTSD study, **OHBM 2021**.
- 1252.Bo-yong Park, Sara Larivière, Raul Rodríguez-Cruces, Jessica Royer, Shahin Tavakol, Yezhou Wang, Lorenzo Caciagli, Sanjay Sisodiya, Paul M. Thompson, Carrie McDonald, Andrea Bernasconi, Neda Bernasconi, Boris Bernhardt (2021). Divergence of cortical asymmetry and atrophy in temporal lobe epilepsy: A worldwide ENIGMA study, **OHBM 2021**.
- 1253.Yizhou Ma, Elliot Hong, Neda Jananshad, Paul M. Thompson, Peter Kochunov (2021). Brain patterns of neuropsychiatric illnesses and accelerated aging indicate brain health and brain-body relationships in healthy individuals, **OHBM 2021**.
- 1254.Yizhou Ma, Elliot Hong, Neda Jananshad, Paul M. Thompson, Peter Kochunov (2021). The role of nucleus accumbens in stressful events: volumetric and connectivity studies in a large population sample, **OHBM 2021**.
- 1255.Kathryn Hatch, Brian Donohue, Tianzhou Ma, Shuo Chen, Yizhou Ma, Si Gao, L Elliot Hong, Neda Jahanshad, Paul M Thompson, Peter Kochunov (2021). Novel Application of Algorithmic Approaches and Parallel GPU Computing toof Voxel-wise Heritability and Genetic Association Studies, **OHBM 2021**.
- 1256.Claudia Barth\*, Sinead Kelly\*, Stener Nerland, Tiril P. Gurholt<sup>4,2</sup>, Clara Alloza, Celso Arango, Nerisa Banajx, Carrie E. Bearden, Michael Berk, Morgan Hough, Neda Jahanshadz,

- Anthony C. James, Joost Janssen, Cecilie Johannessen<sup>1,2</sup>, Katherine H. Karlsgodt, Runar E. Smelror<sup>1,2</sup>, Spalletta Gianfranco<sup>x,y</sup>, Chao Suo, Sophia I. Thomopoulos, Diana Tordesillas-Gutiérrez, Kirsten Wedervang-Resell<sup>1,2</sup>, Anne M. Myhre, Ole A. Andreassen, Paul M. Thompson, Ingrid Agartz – on behalf of the ENIGMA EOP Working Group (2021). Investigating white matter microstructure in adolescent early onset psychosis via the ENIGMA consortium, **OHBM 2021**.
1257. Clara A. Moreau, Annabelle Harvey, Sebastian Urchs, Guillaume Huguet, Kumar Kuldeep, Elise Douard, Hanad Sharmarke, Pierre Orban, Charles-Olivier Martin, Nadine Younis, Petra Tamer, Jean-Louis Martineau, Ana Isabel Silva, Jeremy Hall, Marianne B.M. van den Bree, Michael J. Owen, David E. J. Linden, Sarah Lippé, Laura Schultz, Laura Almasy, Carrie E. Bearden, David Glahn, Thomas Bourgeron, Paul M. Thompson, Pierre Bellec†, and Sebastien Jacquemont\*† (2021). Atlas of functional connectivity relationships across rare and common genetic variants, traits, and psychiatric conditions, **OHBM 2021**.
1258. Andre Altmann, Neda Jahanshad, Paul M. Thompson, Marco Lorenzi (2021). Meta Partial Least Squares for Large Scale Applications in Imaging Genetics, **OHBM 2021**.
1259. Bingchen Gao, Bhim Adhikari, Eun-jin Cheon, Aysenil Belger, Steven Potkin, Juan Bustillo, Daniel Mathalon, Judith Ford, Kelvin Lim, Bryon Mueller, Adrian Preda, Gregory Strauss, Anthony Ahmed, Paul Thompson, Neda Jahanshad, Peter Kochunov, Vince Calhoun, Jessica A. Turner, Theo van Erp (2021). Spontaneous Brain Activity is associated with SANS-based Negative Symptom Domains in Schizophrenia, **OHBM 2021**.
1260. Eun-jin Cheon, Bingchen Gao, Bhim Adhikari, Jesse Edmund, Aysenil Belger, Steven Potkin, Juan Bustillo, Daniel Mathalon, Judith Ford, Kelvin Lim, Bryon Mueller, Adrian Preda, Gregory Strauss, Paul Thompson, Neda Jahanshad, Peter Kochunov, Vince Calhoun, Jessica A. Turner, Theo van Erp (2021). Amplitude of low-frequency fluctuations is associated with Negative Symptom Domains in Schizophrenia, **OHBM 2021**.
1261. Adrian I. Campos, Jill A. Rabinowitz, Neda Jahanshad, Paul M. Thompson, Sarah E. Medland, Miguel E. Rentería (2021). Polygenic prediction of subcortical volumes and cross-ancestry validation, **OHBM 2021**.
1262. Hung Mai, Jingxuan Bao, Paul M. Thompson, Dokyoon Kim, Li Shen (2021). Identifying tissue specific transcriptomic effects on brain volume measures from GWAS summary data, **OHBM 2021**.

### **ISBI 2021**

1263. Pradeep Lam, Alexandra M. Muir, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Visual Feature Analysis of Age and Alzheimer's Disease Classification using Multi-Layer Attention, **ISBI 2021**.
1264. Nynke A. Groenewold<sup>1</sup>, Janna Marie Bas-Hoogendam<sup>2,3</sup>, Moji Aghajani<sup>4</sup>, Kevin Hilbert<sup>5</sup>, Andre Zugman<sup>3</sup>, Miquel A. Fullana<sup>6</sup>, Anita Harrewijn<sup>3</sup>, Elise M. Cardinale<sup>3</sup>, Eline Roelofs<sup>7</sup>, Max A. Laansma<sup>8</sup>, Laura A. van Velzen<sup>9</sup>, Sophia I. Thomopoulos<sup>10</sup>, Neda Jahanshad<sup>10</sup>, Anderson M. Winkler<sup>3</sup>, Paul M. Thompson<sup>10</sup>, Dick J. Veltman<sup>4</sup>, Ulrike Lueken<sup>5</sup>, Daniel S. Pine<sup>3</sup>, Dan J. Stein<sup>11</sup>, and Nic J.A. van der Wee<sup>7</sup>, on behalf of the ENIGMA-Anxiety Working

Group (2021). **Brain characteristics associated with anxiety disorders: an update from the ENIGMA-Anxiety Working Group**, submitted to the *International Congress of the World Association for Stress Related and Anxiety Disorders 2021 (WASAD)*.

1265. Jerod M. Rasmussen, Ph.D.<sup>1</sup>, Jetro J. Tuulari<sup>2</sup>, Paul M. Thompson<sup>3</sup>, Lauren E. Gyllenhammer, Ph.D.<sup>1</sup>, Karen L. Lindsay<sup>1</sup>, Thomas G. O'Connor<sup>4</sup>, Berthold Koletzko<sup>5</sup>, Saara Nolvi<sup>2</sup>, Maria Lavonius<sup>2</sup>, Harri Merisaari<sup>2</sup>, Linnea Karlsson<sup>2</sup>, Sonja Entringer, Ph.D.<sup>1,6</sup>, Pathik D. Wadhwa, M.D.<sup>1</sup>, Hasse Karlsson<sup>2</sup>, Claudia Buss, Ph.D.<sup>1,6</sup>. (2021). **Maternal Pre-pregnancy Body Mass Index and Newborn Offspring Hypothalamic Mean Diffusivity, DOHaD** - 12th World Congress on Developmental Origins of Health and Disease, Vancouver, Canada. 27-31 August, 2022.

### **ASHG 2021**

1266. S. Zaranek, T. Clegg, J. Li, W. Vandewege, A. M. Brickman, B. N. Vardarajan, A. J. Saykin, C. Davatzikos, L. Shen, H. Huang, **P. M. Thompson**, G. Jun, D. Tosun, T. J. Hohman, P. K. Crane, K. T. Nho, The Alzheimer's Disease Neuroimaging Initiative, AI4AD Initiative, A. W. Zaranek (2021). Discovering Genetic Signatures in Tiled Whole Genome Sequence Data: The Artificial Intelligence for Alzheimer's Disease (AI4AD) Consortium, **ASHG 2021** (American Society for Human Genetics), late-breaking abstract, submitted, Sept. 14, 2021.

### **SFN21 (6 abstracts) - November 8–11 2021, online:**

1267. Betts S, Villalon-Reina JE, Salminen LE, Thompson PM (2022). Brain white matter microstructure and ADHD: A tensor distribution function analysis. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1268. Dhinagar NI, Thomopoulos SI, Owens-Walton C, Weintraub D, Cook P, McMillan C, Thompson PM (2021). Parkinson's disease classification using 3D convolutional neural networks and random forest methods, Society for Neuroscience (SFN) Annual Meeting, 2021.

1269. Lawrence KE, Abaryan Z, Laltoo E, McCracken JT, Thompson PM (2021). White matter sex differences in late childhood assessed with single- and multi-shell diffusion-weighted MRI metrics. Society for Neuroscience Annual Meeting. Virtual meeting due to COVID-19 pandemic.

1270. Owens-Walton C, Zheng H, Thomopoulos SI, Fried I, Salamon N, Engel JP, Thompson PM, Staba R (2021). Cortical and Subcortical MRI Gray Matter Abnormalities Associated with Depth Electrode-Recorded Ictal EEG Onset Patterns in Human Temporal Lobe Epilepsy. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1271. Sinha S, Thomopoulos SI, Lam P, Muir A, Thompson PM (2022). Harmonizing MRI using Attention-Guided Generative Adversarial Networks improves Alzheimer's Disease Classification Performance. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1272. Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S (2021). Advanced Diffusion MRI Modeling Detects Altered Axonal Density in Carriers of 16p11.2 Copy Number Variants (CNV). SFN 2021, Virtual Meeting.

### **SOBP 2022 (4 abstracts) - April 28-30 2022, New Orleans, LA, USA / online:**

1273.Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S. Fiber Density vs. Dispersion in 16p11.2 Deletion: A multi-site study of advanced diffusion MRI measures. SOBP 2022, New Orleans, LA, USA.

1274.Zhiqiang Sha<sup>1</sup>, Daan van Rooij<sup>2</sup>, ENIGMA-ASD Working Group, ENIGMA-Laterality Working Group, Paul M. Thompson<sup>3</sup>, Simon E. Fisher<sup>1,4</sup>, Jan K. Buitelaar<sup>2</sup>, & Clyde Francks<sup>1,4</sup> (2022). **Subtly altered topological asymmetry of brain structural covariance networks in autism spectrum disorder across 43 datasets from the ENIGMA consortium, submitted to SOBP 2022.**

1275.Peter Kochunov, Paul M Thompson, Elliot Hong (2022). Evaluating Big-Neuroimaging-Data Informed Vulnerability Indices for neuropsychiatric disorders, **submitted to SOBP 2022.**

1276.Lauren E. Salminen, Talia Nir, Peter Kochunov, Sophia Thomopoulos, Paul M. Thompson (2022). Predicting Cognitive Impairment Using a Data-Driven Cortical Vulnerability Index, **submitted to SOBP 2022.**

**INSAR 2022 (2 abstracts) - May 11-14 2022, Austin, TX, USA / online:**

1277.Kumar K\*, Modenato C\*, Moreau CA, Ching CRK, Harvey A, Martin-Brevet S, Huguet G, Jean-Louis M, Martin C-O, Douard E, Silva AI, van den Bree MBM, Linden DEJ, Owen MJ, Hall J, Lippé S, Dumas G, Bearden CE, Thompson PM, Jacquemont S (2022). Subcortical brain alterations across copy number variants converge with those in autism and neurodevelopmental psychiatric disorders. International Society for Autism Research Annual Meeting 2022, Austin, Texas.

1278.Lawrence KE, van Rooij D, Laltoo E, McCracken JT, Buitelaar JK, Thompson PM (2022). White matter microstructure differences in autism: A pilot study from the ENIGMA ASD Working Group. International Society for Autism Research Annual Meeting. Austin, Texas. Accepted.

1279.Brendan Angelo<sup>1,2</sup>, Alexis DeFendis<sup>1,2</sup>, Anita Yau<sup>5</sup>, Jasmin M. Alves<sup>1,2</sup>, Paul M. Thompson<sup>4,6</sup>, Kathleen A. Page<sup>\*1,2,5,6</sup>, Shan Luo<sup>\*1,2,3,4</sup> Relationships between healthy lifestyle and brain cortical thickness in children and young adults, USC Diabetes & Obesity Research Institute (**DORI**) Conference, 2022.

**ADPD 2022**

1280.Surabhi Sinha, Sophia I. Thomopoulos, Alexandra Miur, Pradeep Lam, **Paul M. Thompson** (2022). Improving Alzheimer's Disease Classification from Brain MRI with an Attention-Guided Generative Adversarial Network and Transfer Learning, **ADPD 2022.**

1281.Jianfeng Wu, Yi Su, Eric M. Reiman, Richard J. Caselli, Kewei Chen, Paul M. Thompson, Junwen Wang\*, Yalin Wang\* (2022). INVESTIGATING THE EFFECT OF TAU DEPOSITION AND APOE ON HIPPOCAMPAL MORPHOMETRY IN ALZHEIMER'S DISEASE: A FEDERATED CHOW TEST MODEL, **ADPD 2022.**

1282.Jianfeng Wu, Wenhui Zhu, Yi Su, Jie Gui, Natasha Lepore, Eric M. Reiman, Richard J. Caselli, Paul M. Thompson, Kewei Chen, Yalin Wang\* (2022). PREDICTING ACCUMULATION OF TAU PLAQUES IN BRAIN IN CEREBRAL CORTEX WITH MULTIVARIATE MRI MORPHOMETRY MEASUREMENTS, **ADPD 2022**.

### **ISMRM22 (3 papers) - May 7-12 2022, London, England, UK / online**

1283.Chandio BQ, Chattopadhyay T, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Visualizing 4230 White Matter Tracts at Once, ISMRM 2022, London, England, UK.

1284.Feng Y, Chandio BQ, Chattopadhyay T, Thomopoulos SI, Owens-Walton C, Jahanshad N, Garyfallidis E, Thompson PM (2022). Deep generative model for learning tractography streamline embeddings based on Convolutional Variational Autoencoder. ISMRM 2022, London, England, UK.

1285.Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S (2022). Multi-Site Normative Modeling and Hierarchical Bayesian Analysis of DKI metrics in Carriers of 16p11.2 Copy Number Variants . ISMRM 2022, London, England.

### **Microbiome Virtual International Forum 2022**

1286.Chloe X Yap<sup>1,2,3</sup>, Anjali Henders<sup>2,3</sup>, Gail A Alvares<sup>4,3</sup>, David Wood<sup>5</sup>, Lutz Krause<sup>5</sup>, Gene W Tyson<sup>5,6</sup>, Restuadi<sup>2</sup>, Leanne Wallace<sup>2,3</sup>, Tiana McLaren<sup>2,3</sup>, Narelle K Hansell<sup>9</sup>, Dominique Cleary<sup>4,3</sup>, Rachel Grove<sup>7,3</sup>, Claire Hafekost<sup>4,3</sup>, Alexis Harun<sup>4,3</sup>, Helen Holdsworth<sup>1,8,3</sup>, Rachel Jellett<sup>9,3</sup>, Feroza Khan<sup>7,3</sup>, Lauren Lawson<sup>9,3</sup>, Jodie Leslie<sup>4,3</sup>, Mira Levis Frenk<sup>1,8,3</sup>, Anne Masi<sup>7,3</sup>, Nisha E Mathew<sup>7,3</sup>, Melanie Muniandy<sup>9,3</sup>, Michaela Nothard<sup>1,8,3</sup>, Jessica Miller<sup>10</sup>, Lorelle Nunn<sup>2</sup>, Gerald Holtmann<sup>11,12</sup>, Lachlan Strike<sup>10</sup>, Grieg de Zubricaray<sup>13</sup>, Paul M Thompson<sup>14</sup>, Katie L McMahon<sup>15</sup>, Margaret J Wright<sup>9,16</sup>, Peter M Visscher<sup>2</sup>, Paul A Dawson<sup>1,3</sup>, Cheryl Dissanayake<sup>8,3</sup>, Valsamma Eapen<sup>6,17,3</sup>, Helen S Heussler<sup>7,18,3</sup>, Allan F McRae<sup>2</sup>, Andrew JO Whitehouse<sup>4,3</sup>, Naomi R Wray<sup>2,9,3</sup>, Jacob Gratten<sup>1,2,3,\*</sup> (2021). **Restricted diet drives autism-gut microbiome associations**, Microbiome Virtual International Forum 2022, submitted, Nov. 30 2021.

### **OHBM22 (26 abstracts) - June 19-23 2022, Glasgow, Scotland / online:**

1287.Bottino M, Mastrantonio G, Thompson PM, Jahanshad N, Pizzagalli F(2022). Effects of children's screen time activity on their mental health and brain structure in ABCD. Organization for Human Brain Mapping 2022. Glasgow, Scotland.

1288.Boyle CP, Ching CRK, Thomopoulos SI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (2022). Unique contribution of brain amyloid load and APOE4 Status to Brain Volume. OHBM 2022, Glasgow, Scotland.

1289.Chandio BQ, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Effects of mild cognitive impairment on white matter tracts of the brain, OHBM 2022, Glasgow, Scotland, UK.

- 1290.Cheng W, Parker N, O'Connell KS, van der Meer D, Ching CRK, Hindley GFL, Shadrin AA, Bahrami S, Lin A, Karadag N, Holen B, Fan C, Westlye LT, Thompson PM, Dale AM, Djurovic S, Frei O, Smeland OB, Andreassen OA (2022). Shared genetic architecture between bipolar disorder and cortical brain structure. OHBM 2022, Glasgow, Scotland.
- 1291.Ching CRK, Thomopoulos SI, Gleave EJ, Santhalingam V, Zhu AH, Islam T, Abaryan Z, Thompson PM (2022). APOE genotype and subcortical brain volumes in 43,195 individuals from the UK Biobank. OHBM 2022, Glasgow, Scotland.
- 1292.Ching CRK, Tronchin G, Nabulsi L, Thomopoulos SI, Radua J, Thompson PM, Andreassen OA, McDonald C (2022). Mega-analysis of lithium and hippocampal volume in the ENIGMA Bipolar Disorder Working Group. OHBM 2022, Glasgow, Scotland.
- 1293.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Stripelis D, Ambite JL, Steeg GV, Thompson PM (2022). Inter and Intra-domain Pre-training for Alzheimer's Disease Classification using Brain MRI, Organization for Human Brain Mapping (OHBM) 2022.
- 1294.Hettwer MD, Larivière S, Park BY, van den Heuvel OA, Schmaal L, Andreassen OA, Ching CRK, Hoogman M, Buitelaar J, Veltman DJ, Stein DJ, Franke B, van Erp TGM, ENIGMA ADHD Working Group, ENIGMA Autism Working Group, ENIGMA Bipolar Disorder Working Group, ENIGMA Major Depression Working Group, ENIGMA OCD Working Group, ENIGMA Schizophrenia Working Group, Jahanshad NJ, Thompson PM, Thomopoulos SI, Bethlehem RAI, Eickhoff SB, Bernhardt BC, Valk SL (2022). Coordinated Cortical Thickness Alterations across Psychiatric Conditions: a Transdiagnostic ENIGMA study. OHBM 2022, Glasgow, Scotland.
- 1295.Kumar<sup>1</sup> K\*, Modenato C\*, Moreau CA, Ching CRK, Harvey A, Martin-Brevet S, Huguet G, Jean-Louis M, Martin C-O, Douard E, Silva AI, van den Bree MBM, Linden DEJ, Owen MJ, Hall J, Lippé S, Dumas G, Bearden CE, Thompson PM, Jacquemont S (2022). Subcortical brain alterations across CNVs converge with those in idiopathic psychiatric conditions. OHBM 2022, Glasgow, Scotland.
- 1296.Laansma MA, van Heese EM, Zhao Y, Bright JK, Owens-Walton C, Al-Bachari S, Cendes F, Druzgal J, Garraux G, Helmich RC, Klein JC, Lochner C, McMillan CT, Melzer TR, Parkes LM, Poston KL, Rango M, Schwingenschuh P, Spalletta G, van den Heuvel OA, Vriend C, Wang J-J, Wiest R, Jahanshad N, Thompson PM, van der Werf YD, Gutman BA (2022). Machine Learning on Subcortical Shape to Distinguish the PD Brain from The Healthy Brain: ENIGMA-PD. OHBM 2022, Glasgow, Scotland.
- 1297.Larivière S, Paquola C, Park B-y, Royer J, Wang Y, Benkarim O, Vos de Wael R, Valk SL, Thomopoulos SI, Kirschner M, ENIGMA Consortium, Sisodiya S, McDonald CR, Thompson PM, Bernhardt BC (2022). The ENIGMA Toolbox: Cross-disorder integration and multiscale neural contextualization of neuroimaging datasets. OHBM 2022, Glasgow, Scotland.
- 1298.Lawrence KE, Abaryan Z, Laltoo E, McCracken JT, Thompson PM (2022). Advanced diffusion-weighted MRI metrics are associated with pubertal development in over 6,000 youth. Organization for Human Brain Mapping. Glasgow, Scotland.
- 1299.Lopez SM, Aksman LM, Oxtoby NP, Rao J, Kaestner E, McDonald CR, Alexander DC, Sisodiya SM, Altmann A, for the ENIGMA-Epilepsy working group (2022). Temporal lobe epilepsy shows a progressive increased brain asymmetry evaluated by event-based modelling. OHBM 2022, Glasgow, Scotland.
- 1300.Luo S, Hsu E, Lawrence KE, Adise S, Herting M, Buchanan T, Page K, Thompson PM (2022) Associations between prenatal exposure to maternal diabetes and adiposity and mediating effects of brain structure, Organization for Human Brain Mapping. 2022 Annual Conference. Glasgow, Scotland.

1301. Male AG, Hare SM, Adhikari BM, Edmond JT, Pozzi E, Toenders Y, Veer I, Waller L, Haswell C, Morey R, Schmaal L, Belger A, Bustillo J, Lim KO, Mueller BA, Preda A, Mathalon DH, Ford JM, Potkin SG, Kochunov P, Hong LE, Straussi GP, Ahmedx AO, Thompson PM, Calhounk VD, Turnerl JA, van Erp TGM (2022). Brain Connectivity Associations with Negative Symptom Domains in Schizophrenia. OHBM 2022, Glasgow, Scotland.
1302. Moreau CM, Harvey A, Kumar K, Huguet G, Urchs S, Douard EA, Schultz LM, Sharmarke H, Jizi K, Martin C-O, Younis N, Tamer P, Rolland T., Martineau JL, Orban P, Silva AI, Hall J, van den Bree MBM, Owen MJ, Linden DEJ, Labbe A., Lippé S., Bearden CE, Almasy L, Glahn DC, Thompson PM, Bourgeron T, Bellec P, Jacquemont S. Genetic heterogeneity shapes brain connectivity in psychiatry. OHBM 2022, Glasgow, Scotland.
1303. Nabulsi L, Lawrence KE, Laltoo E, Santhalingam V, Abaryan Z, Villalon-Reina JE, Nir TM, Ba Gari I, Zhu AH, Haddad E, Muir AM, Jahanshad N, Thompson PM (2022). Charting age and sex effects on white matter microstructure in N=34,423 people using DTI, TDF, NODDI and MAPMRI. Organization for Human Brain Mapping 2022. Glasgow, Scotland.
1304. Nir TM, Thomopoulos SI, Villalón-Reina JE, Thompson PM, Jahanshad N (2022). Amyloid and tau pet associations with white matter microstructure. OHBM 2022, Glasgow, Scotland.
1305. Owens-Walton C, Al-Bachari S, Ambrogio S, Anderson T, Aventura I, Carr J, Cendes F, Ciullo V, Cook P, Dalrymple-Alford J, Dirx M, Dixon D, Druzgal J, Emsley H, Guimarães R, Haroon H, Helmich R, Hu M, Johansson M, Kim H, Klein J, Laansma M, Lochner C, Mackay C, McMillan C, Melzer T, Newman B, Nir TM, Parkes L, Pellica C, Piras F, Piras F, Pirpamer L, Pitcher T, Poston K, Roos A, Scárdua Silva L, Schmidt R, Schwingenschuh P, Spalletta G, Stein D, Tsai C, van den Heuvel O, Vecchio D, Wang J, Weintraub D, Yasuda C, van der Werf Y, Jahanshad N, Thomopoulos SI, Thompson PM (2022). White matter abnormalities in Parkinson's disease: An ENIGMA-PD TBSS Study. Organization for Human Brain Mapping, 2022 Annual Conference. Glasgow, Scotland.
1306. Qu B, Tang H, Guo L, Fu X, Thompson PM, Huang H, Zhan L (2022). Hierarchical Brain Embedding Using Explainable Graph Learning. OHBM 2022, Glasgow, Scotland.
1307. Sämann P, Iglesias J, Van Erp T, Binder E, Czisch M (2022). Functional connectivity analysis improved by precise individual anatomical partial volume correction. OHBM 2022, Glasgow, Scotland.
1308. Schijven D, Postema MC, ENIGMA-Schizophrenia Working Group, Fisher SE, Franke B, Glahn DC, Gur RC, Hashimoto R, Jahanshad N, Luders E, Medland SE, Thompson PM, Turner JA, van Erp TGM, Francks C (2022). Large-Scale Analysis of Brain Structural Asymmetries in Schizophrenia via the ENIGMA Consortium. OHBM 2022, Glasgow, Scotland.
1309. Tubi MA, Matsiyevskiy E, Wheeler K, Mack WJ, King K, Chui H, Thompson PM, Braskie MN, for Alzheimer's Disease Neuroimaging Initiative (ADNI) (2022). White matter hyperintensity volume dampens CSF biomarker and FDG-PET association in older adults. Organization for Human Brain Mapping 2022. Glasgow, Scotland.
1310. Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S. Combat-GAM and Hierarchical Bayesian Regression harmonization: a rare genetic variant example. OHBM 2022, Glasgow, Scotland.
1311. Zaffaroni M, Pouce V, Thomopoulos SI, Crespi V, Mangin J-F, Rivière D, Thompson PM, Jahanshad N, Pizzagalli F, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2022). Siamese Network for classification of MCI using sulcal-based morphometry. Organization for Human Brain Mapping 2022. Glasgow, Scotland.

1312.Zhu AH\*, Nir TM\*, Gari IB, Dixon D, Islam T, Villalon-Reina JE, Salminen LE, Thompson PM, Jahanshad N (2022). ApoE2 and ApoE4 associations with regional QSM and diffusion MRI in the UK Biobank. Organization for Human Brain Mapping 2022. Glasgow, Scotland.

**INTS22 (1 abstract) - July 17-20 2022, Berlin, Germany:**

1313.Keleher F, Wilde E, Amiri H, Asarnow R, Babikian T, Caeyenberghs K, Ewing-Cobbs L, Giza C, Goodrich-Hunsaker N, Hodges C, Hoskinson K, Irimia A, Koerte I, Lindsey H, Max J, Newsome M, Olsen A, Ryan N, Schmidt A, Sitzmann A, Stein D, Suskauer S, Thompson PM, Ware A, Zafonte R, Zielinski B, Tate D, Dennis E (2022). Associations between Cerebellum Volume and Executive Function Following Pediatric TBI. INTS 2022, Berlin, Germany.

**AAIC22 (27 abstracts) - July 31-Aug 4 2022, San Diego, CA, USA / online:**

1314.Bao J, Lee BN, Zaranek SW, Lee M, Shivakumar M, Wen J, Chen J, Wen Z, Yang S, Huang H, Saykin AJ, Thompson PM, Davatzikos C, Kim D, Zaranek AW, Shen L, for the Alzheimer's Disease Neuroimaging Initiative and the A4AD Initiative (2022). Genetic association study of Alzheimer's disease through whole genome tiling analysis, AAIC 2022, San Diego, CA, USA

1315.Boyle CP, Ching CRK, Thomopoulos SI, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2022). Unique contributions of brain amyloid load and APOE4 Status to Regional Brain Volume, AAIC 2022, San Diego, CA, USA

1316.Chandio BQ, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Microstructural changes in the white matter tracts of the brain due to mild cognitive impairment, AAIC 2022, San Diego, CA, USA

1317.Chattopadhyay T, Thomopoulos SI, Thompson PM (2022). Predicting Amyloid Positivity from Hippocampal and Entorhinal Cortex Volume and APOE Genotype, AAIC 2022, San Diego, CA, USA

1318.Ching CRK, Thomopoulos SI, Santhalingam V, Gleave EJ, Zhu AH, Islam T, Abaryan Z, Jahanshad N, Thompson PM (2022). Subcortical brain structure and APOE genotype: An analysis of 43,000 participants from the UK Biobank, AAIC 2022, San Diego, CA, USA

1319.Contreras A, Walters S, Mukherjee S, Lee ML, Choi S-E, Scollard P, Trittschuh EH, Mez J, Bush WS, Engelman CD, Lu Q, Fardo DW, Widaman KF, Buckley R, Mormino E, Kunkle B, Naj A, Clark LR, Gifford KA, The Alzheimer's Disease Neuroimaging Initiative (ADNI)\*, Alzheimer's Disease Genetics Consortium (ADGC), The Alzheimer's Disease Sequencing Project (ADSP), Cuccaro ML, Cruchaga C, Pericak-Vance MA, Farrer LA, Wang L-S, Schellenberg G, Haines JL, Jefferson AL, Johnson SC, Kukull WA, Albert MS, Keene CD, Saykin AJ, Larson EB, Sperling RA, Mayeux R, Thompson PM, Martin ER, Bennett DA, Barnes L, Schneider JA, Crane PK, Hohman TJ, and Dumitrescu L (2022). Sex differences in APOE effects on cognition are domain-specific, AAIC 2022, San Diego, CA, USA

1320.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Stripelis D, Ambite JL, Steeg GV, Thompson PM (2022). Alzheimer's Disease Detection with a 3D Convolutional Neural Network using Gray Matter Maps from T1-weighted Brain MRI, Alzheimer's Association International Conference (AAIC) 2022

1321.Eissman JM, Smith AN, Mukherjee S, Lee ML, Choi S-E, Scollard P, Trittschuh EH, Mez J, Bush WS, Engelman CD, Lu Q, Fardo DW, Widaman KF, Buckley RF, Mormino EC, Kunkle B, Naj A, Clark LR, Gifford KA, Alzheimer's Disease Neuroimaging Initiative (ADNI), Alzheimer's Disease Genetics Consortium (ADGC), A4 Study Team, The Alzheimer's Disease Sequencing Project (ADSP), Cuccaro ML, Cruchaga C, Pericak-Vance MA, Farrer LA, Wang L-S, Schellenberg GD, Haines JL, Jefferson AL, Johnson SC, Kukull WA, Albert MS, Keene CD, Saykin AJ, Larson EB, Sperling RA,



- Mayeux R, Thompson PM, Martin ER, Bennett DA, Barnes L, Schneider JA, Crane PK, Hohman TJ, and Dumitrescu L (2022). Sex-specific genetic predictors of memory, executive function, and language performance, AAIC 2022, San Diego, CA, USA
- 1322.Feng Y, Chandio BQ, Chattopadhyay T, Thomopoulos SI, Owens-Walton C, Garyfallidis E, Jahanshad N, Thompson PM (2022). Learning Streamline Embeddings with Variational Autoencoder For Intersubject Bundle Comparison, AAIC 2022, San Diego, CA, USA.
- 1323.Haddad E, Javid S, Zhu AH, Gadewar S, Gari IB, Lam P, Nir TM, Gupta A, Thompson PM, Jahanshad N (2022). Identifying lifestyle factors that promote brain resilience in ApoE4 carriers, AAIC 2022, San Diego, CA, USA.
- 1324.Hu J, Sahelijo N, Priyadarshi D, Alzheimer's Disease Neuroimaging Initiative (ADNI), AI4AD Consortium, Thompson PM, Saykin AJ, Davatzikos C, Jun GR (2022). Predicting Decline from MCI to AD using Module-Based Polygenic Risk Scores Informed by Brain Proteome Profiles, AAIC 2022, San Diego, CA, USA.
- 1325.Jahanshad N, Haddad E, Zhu AH, Nir TM, Bhatt RR, Nourollahimoghadam E, Thompson PM, Salminen LE, Medland SE, Gupta A (2022). Multi-ethnic differences in brain and biopsychosocial risk factors for AD in UK immigrants from the Middle East and North Africa (MENA), AAIC 2022, San Diego, CA, USA.
- 1326.Lee M, Lee BN, Zaraneek SW, Bao J, Yang S, Jung S-H, Huang H, Saykin AJ, Thompson PM, Davatzikos C, Kim D, Zaraneek AW, Shen L, and the Alzheimer's Disease Neuroimaging Initiative and the AI4AD Initiative (2022). Machine learning for Alzheimer's disease classification from targeted genomic tiling variants, AAIC 2022, San Diego, CA, USA.
- 1327.Nabulsi L, Lawrence KE, Laltoo E, Santhalingam V, Abaryan Z, Villalon-Reina JE, Nir TM, Ba Gari I, Zhu AH, Haddad E, Muir AM, Jahanshad N, Thompson PM (2022). Advanced diffusion-weighted MRI sensitively detects age and sex effects in over 30,000 adults, AAIC 2022, San Diego, CA, USA.
- 1328.Nir TM, Salminen LE, Villalon-Reina JE, Haddad E, Zheng H, Thomopoulos SI, Thompson PM, Jahanshad N (2022). Cortical Microstructure Mediates CSF Amyloid and Tau Associations with Episodic Memory Performance, AAIC 2022, San Diego, CA, USA.
- 1329.Petkus AJ, Wang X, Salminen LE, Millstein J, Beavers DP, Espeland MA, Braskie MN, Thompson PM, Gatz M, Chui HC, Resnick SM, Kaufman JD, Rapp SR, Shumaker S, Younan D, Chen J-C (2022). Alzheimer's Disease Related Neurodegeneration Partially Mediates Associations Between Air Pollution and Medial Temporal Lobe Atrophy in Older Women, AAIC 2022, San Diego, CA, USA.
- 1330.Popa E, Kress G, Thompson PM, Bookheimer SY, Thomopoulos SI, Ching CRK, Zheng H, Merrill DA, Panos SE, Siddarth P, Bramen J (2022). Early Validation of a Structural Magnetic Resonance Imaging Metric for Tracking Dementia-Related Neurodegeneration, AAIC 2022, San Diego, CA, USA.
- 1331.Rajagopalan P, Tennant VR, Thomopoulos SI, Walton CO, Kempton MJ, Si S, Thompson PM (2022). Different atrophy profiles detected in AD patients who carry APOE4 versus non-carriers: An ENIGMA-VBM Multicohort Analysis (N=1,893), AAIC 2022, San Diego, CA, USA.
- 1332.Sahelijo N, Hu J, Priyadarshi D, Panitch R, Alzheimer's Disease Neuroimaging Initiative (ADNI), AI4AD Consortium, Thompson PM, Saykin AJ, Huang H, Crane PK, Davatzikos C, Jun GR (2022). Cell-Level Transcriptomic Network Analysis Provides Insights into Distinct Biological Mechanisms for Alzheimer's Disease Enabling Targeted Drug Repositioning, AAIC 2022, San Diego, CA, USA.

- 1333.Stripelis D, Dhinagar NJ, Romero RVS, Thomopoulos SI, Ambite JL, Thompson PM (2022). Federated Deep Learning for Detecting Alzheimer's Disease in Multi-Cohort Brain MRI, AAIC 2022, San Diego, CA, USA.
- 1334.Tennant VR, Thomopoulos SI, Chattopadhyay T, Thompson PM, Rajagopalan P (2022). Independent and interactive effects of APOE  $\epsilon$ 4 and  $\beta$ -amyloid on cortical thickness in Alzheimer's disease, AAIC 2022, San Diego, CA, USA.
- 1335.Thomopoulos SI, Nir TM, Villalon-Reina JE, Zavaliangos-Petropulu A, Maiti P, Zheng H, Nourollahimoghadam E, Jahanshad N, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (2022). Effects of Alzheimer's Disease and MCI on Diffusion Tensor Metrics Using the Updated ADNI3 DTI Preprocessing Pipeline. AAIC 2022, San Diego, CA, USA.
- 1336.Wang X, Salminen LE, Petkus AJ, Driscoll I, Millstein J, Beavers DP, Espeland MA, Braskie MN, Thompson PM, Gatz M, Chui HC, Resnick SM, Kaufman JD, Rapp SR, Shumaker S, Younan D, Chen J-C (2022). Association of late-life air pollution exposure with medial temporal lobe atrophy in older women, AAIC 2022, San Diego, CA, USA.
- 1337.Wen J, Cui Y, Yang Z, Bao J, Chen J, Erus G, Abdulkadir A, Mamourian E, Singh A, Yang S, Fan Y, Saykin AJ, Thompson PM, Jun GR, Ritchie MD, Shen L, Wolk DA, Shou H, Nasrallah IM, and Davatzikos C (2022). Genetic heterogeneity of four MCI/AD neuroanatomical dimensions discovered via deep learning, AAIC 2022, San Diego, CA, USA.
- 1338.Zhao Y, van Heese E, Laansma MA, Al-Bachari S, Anderson T, Assogna F, Berendse HW, Bright J, Cendes F, Dalrymple-Alford J, Debove I, Dirx M, Druzgal J, Emsley H, Fouche JP, Garraux G, Guimaraes R, Helmich R, Jahanshad N, Kim HB, Klein JC, Lochner C, Mackay C, McMillan CT, Melzer TR, Newman B, Owens-Walton C, Parkes P, Piras F, Pitcher T, Poston K, Rango M, Ribeiro LF, Rocha C, Roos A, Rummel C, Santos L, Schmidt R, Spalletta G, Squarcina L, Schwingenschuh P, van den Heuvel O, Vecchio D, Vriend C, Wang J-J, Weintraub D, Wiest R, Yasuda C, Thompson PM, van der Werf Y, Gutman B (2022). TV-L1 Ordinal Logistic Regression Reveals New Morphometric Patterns Related to Parkinsonian Symptom Severity: An ENIGMA-PD study, AAIC 2022, San Diego, CA, USA.
- 1339.Zhu AH,\* Nir TM,\* Gari IB, Dixon D, Islam T, Villalon-Reina JE, Haddad E, Thompson PM, Jahanshad N (2022). APOE4 genotype associations with longitudinal change in hippocampal microstructure, AAIC 2022, San Diego, CA, USA.

#### **SSSP 2022**

- 1340.Yidian Gao et al. (2022). An ENIGMA mega-analysis of cortical structure and subcortical volumes in youths with conduct disorder: Influence of sex, callous-unemotional traits and age-of-onset, **SSSP 2022, 18 - 21 May 2022** (Society for the Scientific Study of Psychopathy).
- 1341.Janna Marie Bas-Hoogendam, Rachel Bernstein, Brenda E. Thompson, P. Michiel Westenberg, Nic J.A. van der Wee, Nynke A. Groenewold, Dan J. Stein, Anderson M. Winkler, Daniel S. Pine on behalf of the ENIGMA-Anxiety Working Group (2022). Brain structure of childhood inhibited temperament: rationale and methodology of an ENIGMA-Anxiety multi-site mega-analysis, [VNOP conference 2022 in Utrecht \(NL\)](#), 2022.

1342. Priya Rajagopalan, Victoria Tennant, Sophia I. Thomopoulos, Paul M. Thompson (2022). Differential Atrophy Profiles Related to APOE4 Genetic Variant: An ENIGMA-VBM Multicohort Analysis in Alzheimer's Disease, submitted to ASNR 2022/SNR XXII.
1343. Emily Laltoo, Katherine E. Lawrence, Priya Rajagopalan, Sebastian M. Benavidez, Lilit Yengoian, Matthew J. Kempton, James T. McCracken, Paul M. Thompson (2022). Regional specificity of structural brain alterations in autism: A pilot voxel-based morphometry meta-analysis, 2022 Flux Conference.
1344. S. King<sup>1</sup>, G. Tronchin<sup>1</sup>, L. Nabulsi<sup>2</sup>, S. I. Thomopoulos<sup>2</sup>, E. Fontana<sup>1,3</sup>, J. Radua<sup>4</sup>, K. Sims<sup>5,6</sup>, O. Gruber<sup>7</sup>, L. Yatham<sup>8</sup>, U. Dannlowski<sup>9</sup>, T. Kircher<sup>10</sup>, I. Nenadic<sup>10</sup>, F. Stein<sup>10</sup>, K. Brosch<sup>11</sup>, F. Howells<sup>12,13</sup>, B. C.M. Haarman<sup>14</sup>, E. Pomarol-Clotet<sup>15</sup>, E. Vieta<sup>16,17</sup>, M. Landen<sup>18</sup>, D. Cannon<sup>19</sup>, D. Alnæs<sup>20</sup>, L. T. Westlye<sup>20</sup>, C. López Jaramillo<sup>21,22</sup>, M. Gerhardt Soeiro-de-Souza<sup>23</sup>, M. Berk<sup>24,25</sup>, T. Elvsåshagen<sup>26</sup>, G. Roberts<sup>27</sup>, P. B. Mitchell<sup>27</sup>, J. M. Fullerton<sup>28,29</sup>, M. J. Green<sup>30,31</sup>, Y. Quidé<sup>32,33</sup>, M. Hermesdorf<sup>34</sup>, K. Berger<sup>34</sup>, J. Soares<sup>35,36</sup>, T. Satterthwaite<sup>37</sup>, J. Savitz<sup>38,39</sup>, R. Kuplicki<sup>38</sup>, F. Benedetti<sup>40,41</sup>, D. Glahn<sup>42</sup>, A. Rodrigue<sup>42</sup>, T. Hajek<sup>43,44</sup>, R. Kuplicki<sup>38</sup>, I. H. Gotlib<sup>45</sup>, S. Amoretti<sup>46</sup>, M. Sacchet<sup>47</sup>, P. Favre<sup>48</sup>, T. Van Rheenen<sup>49,50</sup>, J. Anthony Karantonis<sup>51</sup>, L. Furlong<sup>49</sup>, F. Forte<sup>46</sup>, L. T. Westlye<sup>52</sup>, S. Rossell<sup>50</sup>, B. Goldstein<sup>53</sup>, K. Kennedy<sup>53</sup>, J. Houenou<sup>54,55,56</sup>, A. Rodrigue<sup>42</sup>, E. MT Melloni<sup>40,57</sup>, S. Sponheim<sup>58,59</sup>, S. Urosevic<sup>59,60</sup>, C. Demro<sup>61,62</sup>, R. Goya-Maldonado<sup>63</sup>, L. Eyler<sup>64</sup>, P. M. Thompson<sup>2</sup>, O. A. Andreassan<sup>65</sup>, C. R. K. Ching<sup>66</sup>, C. McDonald<sup>1.</sup>, the ENIGMA Bipolar Disorder Working Group (2022). **Concurrent antiepileptic and antipsychotic use moderates lithium's effects on regional brain volumes: a mega-analysis from the ENIGMA-Bipolar Disorder Working Group, submitted to ECNP 2022.**

#### WCPG 2022

1345. Olivia Wootton, Megan Campbell, Neda Jahanshad, Paul M. Thompson, Dan Stein, Shareefa Dalvie (2022). Characterizing the shared genetic influences between schizophrenia and subcortical brain regions, submitted to WCPG 2022.

#### ASHG 2022

1346. Jaclyn M. Eissman<sup>1,2</sup>, Shubhabrata Mukherjee<sup>3</sup>, Michael L. Lee<sup>3</sup>, Seo-Eun Choi<sup>3</sup>, Phoebe Scollard<sup>3</sup>, Emily H. Trittschuh<sup>4,5</sup>, Jesse B. Mez<sup>6</sup>, William S. Bush<sup>7</sup>, Corinne D. Engelman<sup>8</sup>, Qiongshi Lu<sup>9,10</sup>, David W. Fardo<sup>11,12</sup>, Keith F. Widaman<sup>13</sup>, Rachel F. Buckley<sup>14,15,16</sup>, Elizabeth C. Mormino<sup>17</sup>, Brian W. Kunkle<sup>18</sup>, Adam C. Naj<sup>19,20</sup>, Lindsay R. Clark<sup>8</sup>, Katherine A. Gifford<sup>1</sup>, Alzheimer's Disease Neuroimaging Initiative (ADNI), A4 Study Team, Alzheimer's Disease Genetics Consortium (ADGC), Alzheimer's Disease Sequencing Project (ADSP), Michael L. Cuccaro<sup>18</sup>, Carlos Cruchaga<sup>21</sup>, Margaret A. Pericak-Vance<sup>18</sup>, Lindsay A. Farrer<sup>6,22,23</sup>, Li-San Wang<sup>20</sup>, Gerard D. Schellenberg<sup>20</sup>, Jonathan L. Haines<sup>7</sup>, Angela L. Jefferson<sup>1</sup>, Sterling C. Johnson<sup>8</sup>, Walter A. Kukull<sup>3</sup>, Marilyn S. Albert<sup>24</sup>, C Dirk Keene<sup>3</sup>, Andrew J. Saykin<sup>25</sup>, Eric B Larson<sup>3,26</sup>, Reisa A. Sperling<sup>14</sup>, Richard P. Mayeux<sup>27,28,29</sup>, Paul M. Thompson<sup>30</sup>, Eden R. Martin<sup>18</sup>, David A. Bennett<sup>31</sup>, Lisa L. Barnes<sup>31</sup>, Julie A. Schneider<sup>31</sup>, Paul K. Crane<sup>3</sup>, Timothy J. Hohman<sup>1,2</sup>, and Logan Dumitrescu<sup>1,2</sup> (2022). Sex-specific genetic predictors of memory performance in older adults, submitted to **ASHG 2022.**

#### Southeastern Neurodegenerative Disease Conference 2022 (SendCON 2022)

1347. Vaibhav Janve, Jaclyn M. Eissman<sup>1,2</sup>, Shubhabrata Mukherjee<sup>3</sup>, Michael L. Lee<sup>3</sup>, Seo-Eun Choi<sup>3</sup>, Phoebe Scollard<sup>3</sup>, Emily H. Trittschuh<sup>4,5</sup>, Jesse B. Mez<sup>6</sup>, William S. Bush<sup>7</sup>, Corinne D. Engelman<sup>8</sup>, Qiongshi Lu<sup>9,10</sup>, David W. Fardo<sup>11,12</sup>, Keith F. Widaman<sup>13</sup>, Rachel F. Buckley<sup>14,15,16</sup>, Elizabeth C. Mormino<sup>17</sup>, Brian W. Kunkle<sup>18</sup>, Adam C. Naj<sup>19,20</sup>, Lindsay R. Clark<sup>8</sup>, Katherine A. Gifford<sup>1</sup>, Alzheimer's Disease Neuroimaging Initiative (ADNI), A4 Study Team, Alzheimer's Disease Genetics Consortium (ADGC), Alzheimer's Disease Sequencing Project (ADSP), Michael L. Cuccaro<sup>18</sup>, Carlos Cruchaga<sup>21</sup>, Margaret A. Pericak-Vance<sup>18</sup>, Lindsay A. Farrer<sup>6,22,23</sup>, Li-San Wang<sup>20</sup>, Gerard D. Schellenberg<sup>20</sup>, Jonathan L. Haines<sup>7</sup>, Angela L. Jefferson<sup>1</sup>, Sterling C. Johnson<sup>8</sup>, Walter A. Kukull<sup>3</sup>, Marilyn S. Albert<sup>24</sup>, C Dirk Keene<sup>3</sup>, Andrew J. Saykin<sup>25</sup>, Eric B Larson<sup>3,26</sup>, Reisa A. Sperling<sup>14</sup>, Richard P. Mayeux<sup>27,28,29</sup>, Paul M. Thompson<sup>30</sup>, Eden R. Martin<sup>18</sup>, David A. Bennett<sup>31</sup>, Lisa L. Barnes<sup>31</sup>, Julie A. Schneider<sup>31</sup>, Paul K. Crane<sup>3</sup>, Timothy J. Hohman<sup>1,2</sup>, and Logan Dumitrescu<sup>1,2</sup> (2022). Predicted genetically regulated gene expression (GReX) identifies known and novel gene predictors of memory performance in Non-Hispanic White (NHW) older adults. Submitted to the **Southeastern Neurodegenerative Disease Conference 2022** (SendCON 2022)

### AES 2022

1348. Judy Chen, Alexander Ngo, Sara Lariviere, Raul Rodriguez-Cruces, Reinder Vos de Wael, ENIGMA-Epilepsy, **Paul M. Thompson**, Sophia Thomopoulos, Sanjay Sisodiya, Carrie McDonald, Lorenzo Caciagli, Andrea Bernasconi, Neda Bernasconi, Boris Bernhardt (2022). Tracking epilepsy-related gray matter atrophy across the lifespan: an ENIGMA study, submitted to **AES 2022**.

1349. Hong Zheng, Mohamad Shamas<sup>2</sup>, Sophia I. Thomopoulos<sup>1</sup>, Elizabeth Haddad<sup>1</sup>, Conor Owens-Walton<sup>1</sup>, Yaqiong Chai<sup>3</sup>, Neda Jahanshad<sup>1</sup>, Meredith N. Braskie<sup>1</sup>, Paul M. Thompson<sup>1</sup>, Richard Staba (2022). **Evidence for Accelerated Hippocampal Volume Loss with Age in Patients with Left Hemisphere Focal Seizures, submitted to AES 2022.**

**ICAR22 (1 abstract) - November 1-4, 2022, Dallas, TX, USA:**

1350. Rezende T, Arrigoni F, Corben L, Deistung A, Delatycki M, Dogan I, Egan G, Göricke S, Georgiou-Karistianis N, Henry P-G, Hutter D, Joers J, Lenglet C, Martinez A, Martinuzzi A, Peruzzo D, Pisharady P, Reetz K, Romanzetti S, Schulz J, Thomopoulos SI, Thompson PM, Timmann D, Tirelli S, Vavla M, Harding I, França Jr. MC (2022). Spinal cord degeneration in Friedreich's Ataxia: Results from the Enigma-Ataxia working group. ICAR 2022, Orlando, FL, USA.

### SFN 2022

1351. Sean R. McWhinney, PhD<sup>1</sup>, Christoph Abé, PhD<sup>2</sup>, Martin Alda, MD<sup>1</sup>, Francesco Benedetti, MD<sup>3,4</sup>, Erlend Bøen, MD, PhD<sup>5</sup>, Caterina del Mar Bonnin, PhD<sup>6</sup>, Tiana Borgers, MSc<sup>7</sup>, Katharina Brosch, MSc<sup>8</sup>, Erick J. Canales-Rodríguez, PhD<sup>9</sup>, Dara M. Cannon, PhD<sup>10</sup>, Udo Dannlowski, MD, PhD<sup>7</sup>, Ana M. Diaz-Zuluaga, MD<sup>11</sup>, Lorie Dietze, MBS<sup>1</sup>, Torbjørn Elvsåshagen, MD, PhD<sup>12,13,14</sup>, Lisa T. Eyler PhD<sup>15,16</sup>, Janice M. Fullerton, PhD<sup>17,18</sup>, Jose M. Goikolea, MD<sup>6</sup>, Janik Goltermann, M.Sc<sup>7</sup>, Dominik Grotegerd, PhD<sup>7</sup>, Bartholomeus C. M. Haarman, MD, PhD<sup>19</sup>, Tim Hahn, PhD<sup>7</sup>, Fleur M. Howells, PhD<sup>20,21</sup>, Martin Ingvar, MD, PhD<sup>2</sup>, Tilo T. J. Kircher, PhD<sup>9</sup>, Axel Krug, PhD<sup>8,22</sup>, Rayus T. Kuplicki, PhD<sup>23</sup>, Mikael Landén, MD<sup>24,25</sup>,

Hannah Lemke, MSc<sup>7</sup>, Benny Liberg, MD, PhD<sup>2</sup>, Carlos Lopez-Jaramillo, MD, PhD<sup>11</sup>, Ulrik F. Malt, MD, PhD<sup>5,26</sup>, Fiona M. Martyn, BSc<sup>10</sup>, Elena Mazza, MSc<sup>3,4</sup>, Colm McDonald, MD, PhD<sup>10</sup>, Genevieve McPhilemy, PhD<sup>10</sup>, Sandra Meier, PhD<sup>1</sup>, Susanne Meinert, MSc<sup>7</sup>, Tina Meller, PhD<sup>8,27</sup>, Elisa M. T. Melloni, PhD<sup>3,4</sup>, Philip B. Mitchell, MD<sup>28</sup>, Leila Nabulsi, PhD<sup>10</sup>, Igor Nenadic, MD<sup>8</sup>, Nils Opel, MD<sup>7</sup>, Roel A. Ophoff, PhD<sup>29,30</sup>, Bronwyn J. Overs, BPsychSch<sup>17</sup>, Julia-Katharina Pfarr, MSc<sup>8</sup>, Julian A. Pineda-Zapata, BSc<sup>31</sup>, Edith Pomarol-Clotet, MD, PhD<sup>9</sup>, Joaquim Raduà, MD, PhD<sup>2,6,32</sup>, Jonathan Repple, MD<sup>7</sup>, Maike Richter, MSc<sup>7</sup>, Kai G. Ringwald, MSc<sup>8</sup>, Gloria Roberts, PhD<sup>28</sup>, Alex Ross, BSc<sup>1</sup>, Raymond Salvador, PhD<sup>9</sup>, Jonathan Savitz, PhD<sup>23,33</sup>, Simon Schmitt, MSc<sup>8</sup>, Peter R. Schofield, DSc, PhD<sup>17,18</sup>, Kang Sim, MD<sup>34,35</sup>, Dan J. Stein, MD, PhD<sup>20,21,36</sup>, Frederike Stein, MA<sup>8</sup>, Henk S. Temmingh, MD, MPH<sup>21</sup>, Katharina Thiel, PhD<sup>7</sup>, Sophia I. Thomopoulos, BA<sup>40</sup>, Neeltje E. M. van Haren, PhD<sup>37,38</sup>, Holly Van Gestel, MSc<sup>1</sup>, Cristian Vargas, MD<sup>11</sup>, Eduard Vieta, MD, PhD<sup>6</sup>, Annabel Vreeker, PhD<sup>37</sup>, Lena Waltemate, MSc<sup>7</sup>, Lakshmi N. Yatham, MBBS<sup>39</sup>, Christopher R. K. Ching PhD<sup>40</sup>, Ole A. Andreassen, MD, PhD<sup>12</sup>, Paul M. Thompson, PhD<sup>40</sup>, and Tomas Hajek, MD, PhD<sup>1,41</sup>, for the ENIGMA Bipolar Disorders Working Group (2022). **Association between body mass index and cortical brain structure in bipolar disorders – an ENIGMA study in 2,832 individuals**, submitted to SFN 2022.

1352. Christina P. Boyle<sup>1</sup>, Christopher R. K. Ching<sup>1</sup>, Sophia I. Thomopoulos<sup>1</sup>, Matt A. Bernstein<sup>2</sup>, Bret Borowski<sup>2</sup>, Clifford R. Jack, Jr.<sup>2</sup>, Michael W. Weiner<sup>3</sup>, Paul M. Thompson<sup>1</sup>, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2022). Longitudinal MRI atrophy biomarkers and their relation to CSF Tau and A $\beta$  in the ADNI3 cohort, submitted to SFN 2022.

1353. Jiong Chen<sup>1,2,3</sup>, Junhao Wen<sup>1,2</sup>, Zhijian Yang<sup>1,2</sup>, Yuhan Cui<sup>1,2</sup>, Jingxuan Bao<sup>4</sup>, Brian N Lee<sup>2</sup>, Guray Erus<sup>1,2</sup>, Sarah Wait Zaranek<sup>5</sup>, Alexander Wait Zaranek<sup>5</sup>, Yong Fan<sup>1,2</sup>, Andrew J. Saykin<sup>6</sup>, Paul M. Thompson<sup>7</sup>, Li Shen<sup>4</sup>, Haochang Shou<sup>1,8</sup>, Ilya M. Nasrallah<sup>1,2</sup>, Christos Davatzikos (2022). **Genetic Heterogeneity of Four Deep Learning-derived MCI/AD Dimensions via Genome-wide Tiling Associations**, MidAtlantic Bioinformatics Conference, Philadelphia, PA, 2022.

## II. INVITED LECTURES 1996-2022

### Hamburg, Germany

*Visualization and Mapping of Anatomic Abnormalities using a Probabilistic Brain Atlas Based on Random Fluid Transformations*, Invited Speaker, International Conference on Visualization in Biomedical Computing: Hamburg, Germany, **September 23, 1996**. Paper can be found in: *Lecture Notes in Computer Science* **1131**, K.-H. Höhne, R. Kikinis, [eds.], Springer-Verlag.

### Montreal Neurological Institute, McGill University, Canada

*Advances in the Mapping of Structural Abnormalities in the Human Brain*, Invited Speaker, Symposium on Statistics in Brain Mapping, Host: Dr Luc Vinet, Centre de Recherche en les Mathematiques, Montreal, **June 13, 1998**.

### University of Southern California, Department of Electrical Engineering

*Mathematical/Computational Strategies for Human Brain Mapping*, Invited Speaker, USC Human Brain Project Seminar Series, Host: Prof. Richard Leahy, Editor, IEEE Transactions on Medical Imaging, **December 4, 1997**.

### University of California Los Angeles, Department of Mathematics

*Mathematical/Computational Strategies for Mapping the Human Brain*, Invited Speaker, UCLA Mathematics Seminar Series, Host: Prof. Tony Chan, Chair, UCLA Dept. Mathematics, **November 20, 1997**.

**University of California Los Angeles, Department of Statistics**

*Encoding Structural and Functional Information in Human Brain Image Databases*, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Ker-Chau Li, UCLA Dept. of Statistics, **February 27, 1997.**

**University of California Los Angeles, Dept. of Biomathematics**

*Detection and Quantification of Anatomic Abnormalities using a Probabilistic Atlas of the Human Brain*, Invited Speaker, UCLA Seminars in Biomathematics, Host: Carol Newton, M.D., Ph.D., UCLA Dept. of Biomathematics, **April 4, 1996.**

**University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology**

*Pathology Detection using a Probabilistic Reference System for the Human Brain*, Invited Speaker, UCLA Human Brain Mapping Seminars, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 11, 1998.**

**University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology**

*Detection and Mapping of Abnormal Brain Structure in Development and Disease using Neuroimaging*, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **April 22, 1998.**

**University of California Los Angeles, Brain Research Institute, 1998 Eiduson Lecture**

*Mathematical/Computational Strategies for Human Brain Mapping and Pathology Detection*, Invited Lecture, Hosts: Allan J. Tobin, Ph.D., Director of the UCLA Brain Research Institute, and Arthur P. Arnold, Ph.D., Chair, Neuroscience Inter-Departmental Ph.D. Program, **June 2, 1998.**

**Montreal Neurological Institute, McGill University, Canada**

*Growth Patterns in the Developing Human Brain Detected Using Continuum-Mechanical Tensor Maps and Serial MRI*, Invited Speaker, International Conference on Functional Mapping of the Human Brain, **June 10, 1998.**

**Laboratory for Research on the Neuroscience of Autism, University of California at San Diego, La Jolla, CA**

*Mathematical/Computational Strategies for Human Brain Mapping and Pathology Detection*, Invited Lecture, Host: Eric Courchesne, M.D., Director of Autism Research, **July 3, 1998.**

**Pittsburgh Supercomputing Center, Pittsburgh, PA**

*Supercomputing Strategies in Human Brain Mapping*, Invited Speaker, Workshop on Biomedical Image Analysis and Visualization, July 24-July 26 1998, Host: Nigel Goddard, Ph.D., **July 24, 1998.**

**University of California Los Angeles, 1998 Neuro-Oncology Symposium, School of Medicine**

*Modeling of Human Brain Tumors: Imaging in the 4<sup>th</sup> Dimension*, Invited Speaker, UCLA Neuro-Oncology Symposium, Host: Tim Cloughesy, M.D., UCLA Dept. of Neurology, and Director, Neuro-Oncology Program, **October 14, 1998.**

**University of Texas, San Antonio, TX**

*Mathematical/Computational Challenges in Creating Deformable and Probabilistic Atlases of the Human Brain*, Invited Speaker, BrainMap 1998, Host: Jack Lancaster, Ph.D., **December 7-8 1998.**

**University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology**

*Challenges in Population-Based Brain Mapping: Dynamic, Disease-Specific and Probabilistic Brain Atlases*, Invited Speaker, UCLA Human Brain Mapping Seminars, Ahmanson-Lovelace Brain Mapping Center, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 10, 1999.**

**University of California Los Angeles, Department of Neurology Faculty Retreat, Lake Arrowhead, CA**  
*Population-Based Brain Mapping*, Invited Speaker, Seminar Topic: *Innovation in the 21<sup>st</sup> Century: Implications for Neuroscience*, Host: Marie-Francoise Chesselet, M.D., Ph.D., UCLA Dept. of Neurology, **June 5, 1999**.

**Veteran's Administration (VA) Hospital, West Los Angeles, CA**  
*Challenges in Population-Based Brain Mapping*, Invited Speaker, Hosts: Eric Cheng, M.D., Chief Resident, and Claude Wasterlain, M.D., UCLA Dept. of Neurology and VA Medical Center, **October 1, 1999**.

**University of Minnesota, Minneapolis, MN**  
*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Speaker, Dept. of Electrical and Computer Engineering, Host: Prof. Guillermo Sapiro, Ph.D. and Prof. Peter Olver, Ph.D., Director of the Institute for Mathematics and Its Applications, **November 15, 1999**.

**University of California Los Angeles, Department of Statistics**  
*Mathematical and Statistical Challenges in Population-Based Brain Imaging*, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Rick Schoenberg, UCLA Dept. of Statistics, **February 1, 2000**.

**University of California Los Angeles, Department of Biostatistics**  
*Mathematical and Statistical Challenges in Brain Mapping*, Invited Speaker, UCLA Seminars in Biostatistics, Hosts: Prof. Dorota Dabrowska, UCLA Dept. of Biostatistics, **February 9, 2000**.

**Brown University, Providence, RI**  
*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Speaker, Seminars in Computer Vision and Biomedical Engineering, Brown Applied Mathematics Pattern Theory and Vision Seminar, Dept. of Applied Mathematics, Host: Prof. Ulf Grenander, Professor Emeritus in Applied Mathematics, Brown University, **April 25-27, 2000**.

**University of Indiana, Indianapolis, IN**  
*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Speaker, International Workshop on Statistics in Brain Mapping, and Joint Statistical Meetings (JSM) 2000, Host: Prof. Keith Worsley, Ph.D., **August 13, 2000**.

**Dept. of Neurosurgery, Montreal Neurological Institute, McGill University, Canada**  
*Advances in Mapping the Human Brain*, Invited Speaker, Killam Lecture Committee, McGill Dept. of Neurology and Neurosurgery, Host: Louis Collins, Ph.D. Date: TBA, Summer 2000.

**Neuro-Oncology Program 2000 Retreat, Lake Arrowhead Resort, CA**  
*Modeling Human Brain Tumors: Growth Mapping, Intraoperative MRI, and Genetic Profiling*  
Invited Speaker, Neuro-Oncology Retreat, Host: Tim Cloughesy MD, **October 7, 2000**.

**Santa Monica Hospital, Los Angeles**  
*Brain Mapping in Diseased Populations: Recent Advances and Future Promise*, Invited Speaker, CME Accredited Course to Primary Care Physicians, family practitioners and internists, Host: Poonam Bhatla, **October 26, 2000**.

**Florida State University, Dept. of Statistics, Tallahassee, FL**  
*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Speaker, Seminars in Statistics and Biomedical Engineering, Host: Anuj Srivastava, Ph.D. Date: **November 7, 2000**.

**Johns Hopkins University School of Medicine and  
Center for Imaging Science, Whiting School of Engineering, Baltimore, MD**

*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Speaker, Seminars in Biomedical Engineering, Host: Michael I. Miller, Ph.D., Director of the Center for Imaging Science, Johns Hopkins University. Date: **November 20, 2000**.

**University of California Los Angeles, Crump Institute for Molecular Imaging (CIMM), Department of Medical and Molecular Pharmacology**

*An Introduction to Current Challenges in Brain Mapping*, Invited Speaker, Seminars in Imaging and Instrumentation, Host: Prof. Simon Cherry, Associate Director, Crump Institute for Molecular Imaging, 3:00PM, **November 29, 2000**.

**Centre de Recherche en les Mathematiques, McGill University, Montreal, Canada**

*Advances in Digital Brain Atlases Based on Large Human Populations*, Guest Speaker, Symposium on Mathematical Methods in Brain Mapping, Host: Prof. Luc Vinet and Prof. Keith Worsley, Centre de Recherche en les Mathematiques, Montreal, **December 10-11, 2000**.

**National Institutes of Health, NIMH Child Psychiatry Branch, Bethesda, MD**

*Advances in Mapping Human Brain Development*, Guest Speaker, Integrative Neuroscience Seminar, Hosts: Jay Giedd MD, and Judy Rapoport MD, Child Psychiatry Branch, NIMH, **January 25, 2001**

**Missouri Education Summit, Symposium on Brain Research, Osage Beach, Lake of the Ozarks, MO**

*Mapping Brain Growth in Children and Teens: Recent Advances and Future Promise*, Keynote Speaker, Hosts: Governor Bob Holden and First Lady Lori Hauser Holden of Missouri, and Nancy Davis, PhD, Director, Practical Parenting Partnerships, **March 23, 2001**.

*Policy Implications of Current Research on Brain Development*, Panel Speaker (with John Constantino MD, Washington University), Host: Dr. Orlo Shroyer, State Commissioner for Education, Missouri, **March 23, 2001**.

*Brain Development and Neuro-Imaging: What Are We Learning?* Platform Talk, Missouri Education and Parenting Conference, Host: Nancy Davis, PhD, Director, Practical Parenting Partnerships, **March 23, 2001**.

**Arizona State University, Alzheimer's Disease Center, Phoenix, AZ**

*Imaging Brain Development and Disease in Large Human Populations*, Invited Speaker, Seminars in Neurology, Hosts: Gene Alexander, M.D., and Eric Reiman, M.D., Arizona State University Alzheimer's Disease Center, **April 26, 2001**.

**National Academy of Sciences, Washington, DC**

*Mapping Brain Growth in Children and Teens: Recent Advances and Future Promise*, Invited Speaker, National Academy of Sciences, Hosts: Michele Kipke, Ph.D. and Sonja Wolfe, Ph.D., National Academy of Sciences and Institute of Medicine, **May 2, 2001**.

**University of California Los Angeles, Institute for Pure and Applied Mathematics**

*Mathematical Challenges in Population-Based Brain Mapping*, Invited Speaker and Session Chair, Workshop on Mathematics and Modeling in Brain Mapping, Conference on Imaging in Medicine and Neurosciences, May 21-25 2001, UCLA Institute for Pure and Applied Mathematics, Hosts: Eitan Tadmor PhD, Stan Osher PhD, and Tony Chan PhD, **May 24, 2001**.

**Society for Industrial and Applied Mathematics (SIAM), Boston, MA**



*A Tensor Calculus for Surface Comparisons*, Guest Speaker, Host: Fred Bookstein, PhD, Minisymposium MS20: Comparative Mathematical Structures in 3D Medical Image Analysis, 3-5 PM, Clarendon Room, **March 4-6, 2002.**

**Society for Industrial and Applied Mathematics (SIAM), Boston, MA**

*Mathematical/Computational Challenges in Population-Based Brain Mapping*, Guest Speaker, Host: Monica Hurdal, PhD, Minisymposium MS9: Mapping the Human Brain, 2:15 PM - 4:15 PM, St. James Room, **March 6-8, 2002.**

**University of California San Francisco (UCSF), San Francisco, CA**

*Challenges in Population-Based Brain Imaging: Mapping Brain Development and Disease*, Guest Speaker, UCSF Grand Rounds in Psychiatry and Pediatrics, Hosts: Bryna Siegel PhD and Melanie Farley PhD, UCSF Langley Porter Institute, 4:00 PM – 5:30 PM, **October 31, 2001.**

**University of California Los Angeles, Institute for Pure and Applied Mathematics**

*Brain Image Analysis: Recent Advances and Current Mathematical/Computational Challenges*, Invited Speaker, Workshop on Scientific Data Mining (SDM2002), January 14-18 2002, UCLA Institute for Pure and Applied Mathematics, Hosts: Chandrika Kamath PhD, Lawrence Livermore Labs., and Padhraic Smyth PhD, UC Irvine, **January 15, 2002.**

**University of Minnesota, Minneapolis, MN**

*Brain Imaging in Healthy and Diseased Populations: Recent Advances and Current Challenges*, Guest Speaker, Host: Gordon Legge PhD and Guillermo Sapiro PhD, Cognitive Neuroscience Colloquium, **February 1, 2002.**

**Los Angeles Psychiatric Institute (LAPSI), Sawtelle Blvd., Los Angeles, CA**

*The Child and Adolescent Brain: What Neuroimaging Reveals About Development*, Guest Speaker, Host: Regina Pally, PhD, UCLA Neuropsychiatric Institute, 8:00 PM – 9:00 PM, CME Accredited Course, **February 25, 2002.**

**Missouri Education Summit, Symposium on Brain Research, Osage Beach, Lake of the Ozarks, MO**

*Brain Growth in Children and Teens*, Keynote Speaker, Organizer: Darlene Robinett, Practical Parenting Partnerships, **April 26-27, 2002.**

**Conference on Discrete Geometry in Medicine, Wakulla Springs, FL**

*Building Large-Scale Brain Atlases for Disease and Genetic Applications: Covariant PDEs and Probability Distributions on Manifolds*, Invited Speaker, Host: Monica Hurdal, PhD, Conference on Discrete Geometry with Applications to Science and Medicine, Workshop held by Florida State University Dept. of Mathematics, Focused Research Group (FRG) on Conformal Mapping, Wakulla Springs, FL, **May 16-19, 2002.**

**American Academy of Child and Adolescent Psychiatry, San Francisco, CA**

*Brain Imaging In Normal and Abnormal Development: Recent Advances*, Guest Speaker, Host: John Hamilton MD, Workshop on Childhood Onset Schizophrenia, with Judith Rapoport MD, Bob Asarnow PhD, and Nitin Gogtay MD, Hilton San Francisco, 8:00 AM – 11:00 AM, CME Accredited Course, **October 25, 2002.**

**Rockefeller University, New York, NY**

*Brain Imaging In Schizophrenia, Development, and Dementia: Recent Advances and Challenges*, Guest Speaker, Host: Maria Karayiorgou MD, Clinical Neuroscience Seminar, 12 noon, **October 30, 2002.**

**University of Pennsylvania, Philadelphia, PA**

*Mapping the Brain in Healthy and Diseased Populations*, Guest Speaker, Host: Jim Gee PhD, GRASP Laboratory Seminar, Room 318C, 11:00AM, **November 1, 2002.**

**UCLA Life Course Development Seminar, Los Angeles, CA**

*Brain Mapping in Development, Dementia, and Schizophrenia*, Guest Speaker, joint with Tyrone Cannon PhD, Professor and Chair, UCLA Psychology. Hosts: Neal Halfon PhD, Dept. Pediatrics, Patricia Greenfield PhD, UCLA Psychology, and Lenny Rome PhD, Dean of Research, UCLA School of Medicine; UCLA Faculty Center, 12 noon to 2PM, **November 21, 2002.**

**UCLA Psychosis Seminar, Dept. Psychology, Los Angeles, CA**

*New Brain Imaging Strategies for Studying Schizophrenia: Mapping Dynamic, Genetic, and Drug Effects*, Guest Speaker. Host: Keith Nuechterlein PhD, Neuropsychiatric Institute, UCLA School of Medicine; 10 to 11AM, **December 6, 2002.**

**American Neuropsychiatric Association CME Workshop, Honolulu, HI**

*Imaging of Brain Development and Schizophrenia: Recent Advances and Challenges*, Host: Allan Reiss, M.D., Sheraton Waikiki Hotel, Honolulu, HI, **February 4, 2003.**

**UCLA Brain Matters Seminar, Dept. Neurology, Los Angeles, CA**

*Brain Imaging in Alzheimer's Disease, Schizophrenia, and Development: New Advances and Challenges*, Guest Speaker. Host: Catarina de Carvalho, Dept. Neurology, UCLA School of Medicine; Oldendorf Room, 4 to 5PM, **February 10, 2003.**

**Sedona Spring Brain Conference, Sedona, AZ**

*Brain Images of Mental Illness*, Host: Tom Woolsey MD, 14th Annual Spring Brain Conference, Sedona, Arizona, **March 15, 2003.**

**IPSEN Beaufour Foundation, Paris, France**

*Dynamics of Gray Matter Loss in Alzheimer's Disease, Mapped with a Population Based Brain Atlas*, Hosts: Bradley Hyman, Jean Francois Demonet, Yves Christen, Jacqueline Merveille, Paris, France, **March 17, 2003.**

**International Prodromal Research Network, Santa Monica, CA**

*Mapping Disease Progression in Schizophrenia*, Guest Speaker. Host: Ty Cannon, PhD, Director, Center for the Assessment and Prevention of Prodromal States (CAPPS), Casa del Mar Hotel, Santa Monica, CA. **May 2, 2003.**

**Human Brain Mapping Morning Workshop, New York, NY**

*Mapping Brain Degeneration*, Host: Ed Bullmore PhD, Empire Complex, Marriott Marquis Hotel, Times Square, New York, NY. **June 19, 2003.**

**Dartmouth College, Hanover, NH**

*Mathematical Challenges and New Directions in Computational Neuroanatomy*, Guest Speaker, Host: Mike Gazzaniga MD and Jack van Horn PhD, fMRI Data Center (fMRIDC), Dartmouth College, Hanover, New Hampshire, **July 7, 2003.**

**University of Pennsylvania, Philadelphia, PA**

*Imaging Brain Disease*, Neurology Grand Rounds, University of Pennsylvania School of Medicine, Host: John Detre MD. **September 4, 2003.**

**University of Minnesota, Minneapolis, MN**

*Imaging Schizophrenia*, Host: Martin Wessendorf PhD, and Linda King. **September 5, 2003.**

**Louisiana State University, New Orleans, LA**

*Imaging Cortical Changes Across the Human Lifespan: Mapping Development, Aging, and Dementia*, Workshop on Cortical and Thalamic Plasticity, Organizer: Reha Erzurumlu, Ph.D. and William Guido, Ph.D., Louisiana State University. **November 5, 2003.**

**Society for Neuroscience Satellite Symposium, New Orleans, LA**

*Bioinformatics and Brain Imaging*, Workshop on Bioinformatics, Organizer: Robert Williams, Ph.D., University of Tennessee at Memphis, **November 6, 2003.**

**INRIA Sophia Antipolis, France**

*Analyse Mathematique d'Image du Cerveau Humain chez les Sujets Sains et Pathologiques*, Hosts: Nicholas Ayache, Director, INRIA Epidaure, and Xavier Pennec, INRIA Epidaure, **November 25, 2003.**

**University of California at Irvine (UCI), Irvine, CA**

*Genes, Brain Structure, and Intelligence*. Host: Richard Haier PhD, UC Irvine, **December 4, 2003.**

**American Mathematical Society (AMS), Phoenix, AZ**

*Mathematics of Human Brain Mapping*, Host: Ivo Dinov PhD, **January 7, 2004.**

**UCLA Medical Center, Los Angeles, CA**

*Advances in Brain Imaging in Alzheimer's Disease*, Invited Speaker in a Workshop for Drew/King Medical Center Medical Students, Host: Jeff Cummings MD, **January 22, 2004.**

**Keystone Symposium on Drug Discovery, Keystone, CO**

*4D Mapping of Brain Change in Alzheimer's Disease and Schizophrenia: New Strategies for Drug Assessment*, Invited Speaker in a Symposium on Imaging Technologies in Drug Discovery, Host: Josh Boger PhD, **March 23, 2004.**

**University of California Los Angeles, NPI Grand Rounds, Neuropsychiatric Institute**

*Mapping Brain Changes in Alzheimer's Disease, Schizophrenia and Development*, Invited Speaker, UCLA NPI Grand Rounds, Host: Anand Kumar, Ph.D., NPI, **April 6, 2004.**

**International Symposium on Biomedical Imaging, Washington, DC**

*Nonlinear Brain Image Registration*, Invited Speaker and Symposium Organizer, ISBI 2004, **April 15, 2004.**

**CASE Media Workshop, University of California Los Angeles, Neuropsychiatric Institute**

*Mapping the Developing Brain*, Invited Speaker, UCLA CASE Media Day, Presentations to National Journalists winning CASE Media Scholarships, Host: Dan Page and Roxanne Moster, UCLA Media Relations, NPI, **April 19, 2004.**

**University of Southern California (USC), Los Angeles, CA**

*Brain Imaging in Human Populations: Mathematical/Computational Challenges*. Guest Speaker at the Joint Symposium on Neural Computation, Host: Laurent Itti PhD, Univ. of Southern California, **May 15, 2004.**

**University of Notre Dame, South Bend, IN**

*Mapping the Brain in Large Human Populations*, Guest Speaker, *Annual Symposium on Quantitative Methods in Psychology*, Host: Prof. Michael Wenger, University of Notre Dame, **May 29, 2004.**

**Centre de Recherche en les Mathematiques, University of Montreal, Montreal, Canada**

*Shape Analysis of 3D Brain Structures*, Guest Speaker, Symposium on Mathematical Methods in Brain Mapping, Statistical Society of Canada, Host: Prof. Keith Worsley, Centre de Recherche en les Mathematiques, Montreal, **June 2, 2004.**

**Budapest Conference Center, Budapest, Hungary**

*Mapping Genetic Influences on Brain Structure*, Guest Speaker, HBM Breakfast Symposium, Organizer: Kate Watkins PhD, **June 13, 2004.**

**UCLA Institute of Pure and Applied Mathematics (IPAM), Los Angeles, CA**

*Medical & Neuroscience Applications of Computational Anatomy*, Guest Speaker and Chair, IPAM Summer School on Mathematics in Brain Imaging (MBI2004), **July 12, 2004.**

**New York Academy of Sciences (NYAS), Manhattan, New York, NY**

*Time-Lapse Mapping of Gray/White Matter Changes over the Human Lifespan using MRI Databases*, Invited Speaker and Session Moderator, NYAS Conference on Diffusion Tensor Imaging, Host: John Ulmer PhD and Larry Parsons PhD, **August 19, 2004.**

**MICCAI Invited Symposium, St. Malo, France**

*Mapping Brain Changes in Aging & Alzheimer's Disease*, Invited Speaker, Tutorial Workshop at the MICCAI 2004 Conference, Host: Nicholas Ayache PhD, **September 26, 2004.**

**IPAM External Advisory Board, 5-Year Review, IPAM, Los Angeles, CA**

*IPAM Brain Imaging Summer School*, Speaker, Presentation, with Michael Miller PhD (Johns Hopkins University), to the UCLA IPAM External Advisory Board, Host: Mark Green PhD, **October 20, 2004.**

**ADRC External Advisory Board, UCLA Covel Commons, Los Angeles, CA**

*Mapping Brain Changes in Alzheimer's Disease & Those At Risk*, Speaker, Presentation to the UCLA ADRC External Advisory Board, Host: Jeffrey Cummings MD, **October 23, 2004.**

**Eli Lilly Corporate Headquarters, Indianapolis, IN**

*Mapping Cortical Change in Schizophrenia using Cortical Pattern Matching*, Guest Speaker, Prioritized Future Studies Advisory Summit, Host: Gary Tollefson MD PhD (CNS Division Head) and Jeffrey Lieberman MD, **November 1, 2004.**

**National Institute of Aging (NIA) Site Visit, Bethesda, MD**

*Brain MRI and Amyloid PET Scanning in Aging and Dementia*, Site Visit Speaker, Host: John Morris MD, **November 3, 2004.**

**Mayo Clinic, Rochester, MN**

*Brain Imaging in Healthy and Diseased Populations*, Mayo Clinic Biomedical Engineering Program: Invited Speaker, Host: Clifford Jack MD, Armando Manduca PhD, **November 19, 2004.**

**National Institutes of Health (NIH) Kick-Off Meeting for the National Centers for Computational Biology**

*The UCLA Center for Computational Biology*, Plenary Speaker, Hosts: Greg Farber PhD (NCRR), John Haller PhD (NIBIB), **December 8, 2004.**

**UCLA Center for Neurotherapeutics**

*Neuroimaging in Alzheimer's Disease*, Guest Speaker, Day of tutorial lectures Hosted by CNT for a group from Forest Pharmaceuticals, Host: Kavita Shankar PhD, UCLA Center for Neurotherapeutics, **March 23, 2005.**

**Stanford University, Stanford, CA**

*Analyzing Brain Changes in Alzheimer's Disease, Schizophrenia, and Development*, Guest Speaker, Seminar on Frontiers in Interdisciplinary Biosciences, Bio-X Program, James H. Clark Center Auditorium, Host: Brian Wandell PhD, Dept. Psychology, Stanford University, **April 7, 2005**.

**University of Minnesota, Minneapolis, MN**

*Neuroimaging of Normal and Abnormal Brain Development*, Guest Speaker, Conference: "Pathways of Development: Perspectives from Developmental, Cognitive and Affective Neuroscience", Hosts: Chuck Nelson PhD, Erika Hoyt PhD, Center for Neurobehavioral Development, University of Minnesota, **April 22, 2005**.

**Killam Lecture: Montreal Neurological Institute, McGill University, Montreal, Canada**

*Analyzing Brain Changes in Alzheimer's Disease, Schizophrenia, and Development*, Guest Speaker, Hosts: Louis Collins PhD, Alan Evans PhD, Bruce Pike PhD, McConnell Brain Imaging Center, McGill University, Canada, **May 24, 2005**.

**UCLA Center for Neurotherapeutics**

*Imaging Disease Progression with Applications to Drug Trials*, Guest Speaker, Day of tutorial lectures Hosted by CNT for a group from Forest Pharmaceuticals, extension of earlier talk for a second group of visitors; Host: Kavita Shankar PhD, UCLA Center for Neurotherapeutics, **August 30, 2005**.

**Johns Hopkins University School of Engineering and Center for Imaging Science, Whiting School of Engineering, Baltimore, MD**

*Analyzing Brain Images from Large Human Populations*, Invited Speaker, Seminars in Biomedical Engineering, Co-Guest Speaker, James Gee. Ph.D., University of Pennsylvania School of Medicine. Host: Michael I. Miller, Ph.D., Director of the Center for Imaging Science, Johns Hopkins University. **September 28, 2005**.

**Hyatt Regency Hotel, Baltimore, MD – Biomedical Engineering Society (BMES2005)**

*Analyzing Brain Images from Large Human Populations*, Hosts: Michael I. Miller, Ph.D. and Alexander Popel Ph.D., Johns Hopkins University. **September 29, 2005**.

**Century Plaza Hotel, Century City, CA – Child Neurology Society (CNS)**

*Mapping Brain Development with MRI*, Guest Speaker, Symposium on Structural Neuroimaging, Host: Jeff Neil, M.D., Washington University at St. Louis, Co-Guest Speaker, Peter van Zijl. Ph.D., Johns Hopkins University Kennedy Krieger Institute., **September 30, 2005**.

**Skirball Center, Los Angeles, CA – 10<sup>th</sup> Annual Review of Psychiatry, Semel Institute**

*Imaging the Developing Brain– Can We See Signs of Risk for Illness?*, Luncheon Plenary Speaker (~260 attendees), 10<sup>th</sup> Annual Review of Psychiatry, Semel Institute, UCLA; Host: Andrew Leuchter, MD; **October 28, 2005**.

**Society for Neuroscience One-Day Short Course, Washington, DC**

*Mapping Disease & Genetic Effects on the Brain by Imaging Human Populations*, Plenary Speaker (~100 attendees, with afternoon break-out groups), Host: Tyrone Cannon, PhD; **November 11, 2005**.

**University of Pittsburgh Medical Center, Pittsburgh, PA  
Alzheimer's Disease Research Center, Dept. Neurology**

*Mapping Brain Changes in Alzheimer's Disease, Development and Schizophrenia*, Host: Jim Becker, Ph.D., Alzheimer's Disease Research Center, UPMC. **December 19, 2005**.

**American Society of Functional Neuroradiology One-Day Course, San Diego Convention Center, CA**

*Time-lapsed Grey and White Matter Changes in Normal Aging and Cognitive Disorders*, in Short Course on *Structural Grey Matter and White Matter Mapping and the Clinical Neurosciences*, American Society of Neuroradiology; Hosts: John Ulmer MD and Aaron Field MD PhD, **May 4, 2006**.

**New York Academy of Sciences, NYU Kimmel Center, New York, NY**

*Population-Based Mapping of Brain Changes in Aging and Dementia*, In: Workshop on *Imaging and the Aging Brain*, Hosts and Organizers: Mony de Leon EdD PhD, Rashid Shaikh MD, Kara-Leigh Dockery MD, **May 18, 2006**.

**Collegium Internationale Neuropsychopharmacologicum (CINP) Workshop, Chicago, IL**

*Time-Lapse Mapping of Brain Changes in Schizophrenia*, Invited Symposium Speaker with Chris Pantelis and Eve Johnstone; Host: Jeffrey Lieberman MD, Columbia University, **July 11, 2006**.

**Eli Lilly Corporate Headquarters, Indianapolis, IN**

*Time-Lapse Mapping Reveals Different Disease Trajectories in Schizophrenia Depending on Antipsychotic Treatment*, Guest Speaker, Neuroprotection Advisory Board, Host: John Hayes MD (Vice President, Lilly Research Labs) and Jeffrey Lieberman MD, **November 28, 2006**.

**American College of Neuropsychopharmacology (ACNP) Invited Symposium, Hollywood, FL**

*Visualizing Brain Changes in Aging and Dementia*, Guest Speaker with Jay Giedd, Nitin Gogtay, Guido Gerig; Host: Nitin Gogtay MD, NIMH Child Psychiatry Branch, **December 7, 2006**.

**Santa Monica, CA – American Society for Adolescent Psychiatry (ASAP)**

*Imaging Normal and Abnormal Brain Development with MRI*, Guest Speaker, Host: Mohan Nair, M.D., Sheraton Delfina Hotel, Santa Monica, CA, **March 9, 2007**.

**Royal Academy of Sciences (KNAW), Amsterdam, The Netherlands**

*Development of the Brain*, Guest Speaker, Hosts: Eco de Geus • Danielle Posthuma • Dorret Boomsma • Terry Goldberg, Dutch Royal Academy of Sciences, Workshop on Integrating Imaging and Genetics in Cognitive Research, Amsterdam, The Netherlands, **May 9, 2007**.

**UCLA Institute of Pure and Applied Mathematics (IPAM), Los Angeles, CA**

*Brain mapping using deformation morphometry, information theory and diffusion tensor imaging*, Guest Speaker and Co-Organizer, IPAM Workshop on Image Processing for Random Shapes: Applications to Brain Mapping, Geophysics, and Astrophysics (RSWS4), **May 25, 2007**.

**Alzheimer's Association, Washington, DC**

*3D and 4D MR imaging of aging and dementia: principles and pitfalls*, Alzheimer's Association Prevention Meeting, One Day Course on *Advanced Acquisition and Analysis Methods*, Host: Clifford Jack MD, at the Marriott Wardman Park Hotel, Washington, DC, Saturday, **June 9, 2007**.

**Research Triangle Park, North Carolina**

*Brain mapping using deformation morphometry, information theory and diffusion tensor imaging*, Workshop on Computational Anatomy, Host: Laurent Younes, Ph.D., Johns Hopkins University Center for Imaging Science, **July 10, 2007**.

**University of Cambridge, United Kingdom**

*Mapping Brain Development*, Host: Ed Bullmore MD PhD, GE Sponsored Symposium on Advances in Brain Imaging, **November 12, 2007**.

**Massachusetts Institute of Technology (MIT), McGovern Institute for Brain Research, Boston, MA**  
*Heritability of brain morphology and its applications to psychiatric disease*, Host: Charles Jennings, McGovern Symposium, **April 29, 2008**. [cancelled]

**Society of Biological Psychiatry (SOBP) Invited Symposium, Washington, DC**  
*Mapping Progressive Brain Changes in an Antipsychotic Trial*, Host: Bob McCarley, Harvard CIDAR Center Director, **May 3, 2008**. [cancelled]

**National Institutes of Health, Bethesda, MD**  
*HIV Effects on the Brain*, Talk at All-Hands Meeting for the National Computational Biology Centers (NCBCs), Lister Hill, NIH Campus, Bethesda, MD, **August 12 2008**.

**American College of Neuropsychopharmacology (ACNP) Invited Symposium, Scottsdale, AZ**  
*Dynamics, Genetics and Clinical Correlates of White Matter Changes in Alzheimer's Disease*, Guest Speaker with Jay Giedd, George Bartzokis, Nitin Gogtay, Guido Gerig; Symposium Topic: White Matter Changes in Health and Illness, Host: Nitin Gogtay MD, NIMH Child Psychiatry Branch, **December 10, 2008**.

**IPAM External Advisory Board, 5-Year Review, IPAM, Los Angeles, CA**  
*IPAM Brain Imaging Summer School*, Speaker, Presentation, with Valentina Staneva (Johns Hopkins University), to the UCLA IPAM External Advisory Board, Host: Russ Caflisch PhD, **October 7, 2009**.

**Center for Nanotechnology, UCLA (CNSI)**  
*Mathematics in Medical Imaging*, Speaker, Presentation, Hosts: Mark Cohen PhD, Paul Weiss PhD, **April 21 2011**.

**Center for Nanotechnology, UCLA (CNSI)**  
*Imaging Genomics and the ENIGMA Project*, Speaker, Presentation, Hosts: Mark Cohen PhD, Paul Weiss PhD; with Giovanni Coppola and Marcos Novak; **May 12 2011**.

**Institute for Digital Research and Education, UCLA (IDRE)**  
*Cross-Campus Projects on Connectomics and Imaging Genetics*, Speaker, Presentation, Hosts: Marsha Smith PhD, with Gautam Prasad; **October 4 2011**.

**Brain Mapping Organization Board of Directors, UCLA**  
*Uniting Neuroimaging & Genetics: The ENIGMA Project*, Presentation to the Ahmanson-Lovelace Brain Mapping Center Board of Directors, Hosts: Roger Woods and John Mazziotta, **May 7 2012**.

**Epilepsy Program, UCLA School of Medicine**  
*Analyzing Brain Connectivity*, Presentation to the UCLA Epilepsy Program, Reed Neurology, Host: Pete Engel, **May 17 2012**.

**ONE MIND Conference, Covel Commons, UCLA**  
*Genetic Analysis of Brain Images from 21,000 People – The ENIGMA Project*, Invited Speaker, Organizers: Dan Geschwind MD PhD, General Peter Chiarelli, Congressman Patrick Kennedy. Talk and Panel on Big Science and Data Sharing, **May 24 2012**.

**Neurogenetics Affinity Group & Consortium for Neuropsychiatric Phenomics Seminar, UCLA**  
*Genetic Analysis of Brain Images from 21,000 people: The ENIGMA Project*, Invited Speaker, Organizers: Nelson Friemer MD and Dan Geschwind MD PhD, Host: Carrie Bearden PhD, Gonda 1357, **June 14 2012**.

**National Institutes of Health, Bethesda, MD**

*Neuroimaging Genetics Workshop*, Invited Speaker, Organizers: Thomas Lehner, Ph.D., and Judy Rumsey, M.D., Natcher Building, NIH Campus, **June 20 2012**.

**Neuroimaging Summer School, UCLA**

*Neuroimaging Genetics and the ENIGMA Project*, Invited Speaker, Organizer: Mark Cohen, Ph.D. and the Neuroimaging Training Program, UCLA Faculty Center, **July 16 2012**.

**Translational Research in Psychiatry (TRIP) Exchange Program, Kick-Off Workshop and Tours, UCLA**

*Neuroimaging at UCLA*, Speaker, Organizers: Jerome Breen (Institute of Psychiatry, London), Nelson Freimer MD and Dan Geschwind MD PhD. Gonda 1357, **September 13 2012**.

**Laboratory of Neuroimaging Resource, External Advisory Board Site Visit, UCLA (2 talks)**

*Connectomics and The ENIGMA Project*. Speaker, Organizer: Arthur Toga PhD, Vinay Pai PhD (NIBIB Program Officer), **September 25 2012**.

**Center for Magnetic Resonance Research (CMRR), University of Minnesota, Minneapolis, MN**

*High Field Imaging, Q-Space Diffusion Imaging, and Brain Connectivity*. Speaker, Organizer: Kamil Ugurbil PhD, **October 24 2012**.

**Bioinformatics Graduate Program, UCLA**

*Opportunities for Study in Imaging, Genetics, and Connectomics at UCLA*. Speaker, Bioinformatics 202 class (“Meet the Professors”), Life Sciences Building, **November 9 2012**.

**Memory and Aging Center, UC San Francisco**

Meet Paul Thompson: Q & A on Imaging and Genetics, Informal Presentation to Faculty and Staff of the UCSF MAC, Host: Victor Valcour MD, **March 7 2013**.

**American Society of Functional Neuroradiology, Charleston, SC**

*Neurogenomics of Brain Structure & Function*, 2013 ASFNR Meeting, Invited Speaker, **March 13 2013**.

**Board of Visitors, UCLA School of Medicine**

**Brain Mapping in Alzheimer’s Disease**, Hosts: Gene Washington MD, Dean of the UCLA School of Medicine, and John Mazziotta MD PhD, Chair of Neurology, **May 2013**.

**Ritz-Carlton Hotel, Marina del Rey, CA**

*Future of the Imaging Genetics Center*, **May 9 2013**.

**NIBIB Council Meeting, Potomac, MD**

*Brain Imaging and Genomics in 26,000 People: The ENIGMA Project*, Invited Speaker for NIBIB Council. Hosts: NIBIB Director and Executive Secretary, Rod Pettigrew MD PhD and Tony Demsey PhD, NIBIB. Bolger Center, Potomac, MD, **May 15-17 2013**.

**IMAGEN PEC/PCC, European Imaging Genetics meeting, Marrakech, Morocco, North Africa**

*The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions*, Invited Speaker; Host: Gunter Schumann, MD, Hotel Les Deux Tours, Marrakech, **May 28 2013**.

**USC Reception, USC University Park Campus, Los Angeles, CA**

*The New Institute for Neuroimaging & Informatics at USC*, Invited Speaker; Hosts: Max Nikias and Beth Garrett, President and Provost, USC, Doheny Library, **Sept 23 2013**.

**Keck/USC Board of Overseers Meeting, USC Zilkha Institute**



*The ENIGMA Project and the new Institute for Neuroimaging & Informatics at USC*, Invited Speaker; Host: Carmen Puliafito MD MBA, Dean, Keck/USC School of Medicine, **Sept 26 2013**.

**ECNP Working on Neuroimaging, Hotel Rey Juan Carlos, Barcelona, Spain**

*The ENIGMA Consortium: Brain Imaging and Genomics in 26,000 People*, Invited Speaker; Hosts: Sophia Frangou and Stephen Lawrie, Barcelona, **October 4 2013**.

**ACNP Congress, Miami, FL**

*The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions*, Invited Speaker; Hosts: Thomas Lehner, NIMH and Steven Hyman, Harvard, **October 4 2013**.

**USC Board of Trustees, USC University Park Campus, Los Angeles, CA**

*The USC Institute for Informatics, Imaging Genetics Center and ENIGMA Consortium*, Invited Speaker; Host: Beth Garrett & Michael Quick, USC, **November 13 2013**.

**USC Signal and Image Processing Institute, USC University Park Campus, Los Angeles, CA**

Analyzing Brain Images, Connectomes, and Genomes from 26,000 People: The ENIGMA Consortium, Invited Speaker; Host: Richard Leahy, PhD, **December 18 2013**.

**ADRC External Advisory Board Site Visit, USC Health Sciences Campus, Los Angeles, CA**

*Collaborations between the Institute for Neuroimaging & Informatics and the USC Alzheimer's Disease Research Center*, Invited Speaker; Host: Helena Chui, MD, **December 20 2013**.

**NIEHS Center for Environmental Health, USC Health Sciences Campus, Los Angeles, CA**

**Neuroimaging to Reveal Factors that Help or Harm the Brain: Capabilities and Collaborative Opportunities**, Invited Speaker for NIEHS Seminar; Host: Ed Avol, MD, Soto Science Building, **January 10 2014**.

**Zilhka Neurogenetics Institute, USC Health Sciences Campus, Los Angeles, CA**

Brain structural and functional changes, Blood Brain Barrier and the ApoE gene in humans, Invited Speaker; Host: Betza Zlokovic MD PhD, **January 22 2014**.

**ASFNR Conference, Miami, FL**

Genetics & the Connectome

Host: Meng Law, **February 18 2014**.

**Kavli Salon, Huntley Hotel, Santa Monica, CA**

The ENIGMA Project

Kavli Foundation Event on Big Data: Practice Across Disciplines. Hosts: Miyoung Chun and Bob Conn, **February 19 2014**.

**SBMT Conference, Sydney, Australia**

The ENIGMA Project (with Prof. Margie Wright)

Hosts: Perminder Sachdev and Karen Mather, Univ. of Sydney, Australia, **March 18 2014**.

**USC Trustee Conference, Palm Springs, CA**

The Future of Brain Mapping, Host: Michael Quick and the USC Board of Trustees, La Quinta, CA, **March 29 2014**.

**Zilhka Neurogenetics Institute, USC Health Sciences Campus, Los Angeles, CA**

The ENIGMA Project: Screening 28,000 People's Genomes, Images, and Connectomes to Discover and Understand Risk Genes, 1<sup>st</sup> Zilhka Symposium, Invited Speaker; Host: Betza Zlokovic MD PhD, **April 4 2014**.

**National Environmental Health Meeting, NIEHS, Los Angeles, CA**

Epidemiology with 29,000 Brain Images: The ENIGMA Project  
“Environment and Brain” session, Host: Frank Gilliland and Caleb Finch, Crystal Ballroom, Millennium Biltmore Hotel, **April 9 2014.**

**IPSEN Foundation, Paris, France**

*Genetics of the Connectome and the ENIGMA Project*, Hosts: David van Essen, Henry Kennedy, Jacqueline Merveile, Yves Christen; **May 5 2014.**

**Kavli Foundation and Royal Society, Chicheley Hall, Buckinghamshire, England, UK**

The ENIGMA Project, Kavli/GE Salon on Neuro Data without Borders; Host: Miyoung Chun, Ph.D., May 9 2014.

**USC Trustee Retreat, Colony Capital, Santa Monica, CA**

The ENIGMA Project, Host: Max Nikias and Al Checcio, May 12 2014.

**[UC Santa Barbara, Santa Barbara, CA**

[The ENIGMA Project, Host: John Hajda, UCSB; **May 27 2014 [canceled]**

**Russian National Academy of Sciences, Bordanka Neurosurgical Institute, Moscow, Russia**

The ENIGMA Project, Host: Vladimir Zelman and the faculty of the Bordanka Institute, **June 2 2014.**

**Skolkovo (Skoltech) Technical University, Moscow, Russia**

**The Future of Brain Mapping,**

Guest Lecture and Workshop Panel on “Brain and Creativity”, Host: Gelena Lifschitz, **June 3 2014.**

**IMAGEN Retreat and Steering Committee, Camerino, Italy**

*The ENIGMA Project*, Host: Gunter Schumann, **June 8 2014.**

**Chinese National Academy of Sciences, Beijing, China**

**The ENIGMA Project**, East Conference Hall, Beijing Conference Center, Beijing, Wednesday **August 13 2014.**

**UK Medical Research Council, Centre for Cognitive Ageing and Cognitive Epidemiology**

The ENIGMA Project, Keynote Plenary Lecturer, Host: Ian Deary, CCACE Director, Lecture Theatre F21, Psychology Building, 7 George Square, Edinburgh. **August 27 2014, 1pm.**

**Royal Society of Edinburgh, Scotland, UK**

“Brain image banks: essential international research infrastructures for the 21<sup>st</sup> Century”, Keynote Plenary Lecturer, at  
“**Development of Brain Image Banks and Age-Specific Normative Human Brain Atlases**”. Hosts: **Joanna Wardlaw and Paul Matthews. August 28, 2014, 4-5pm.**

**Novosibirsk, Siberia**

**The ENIGMA Project**, Keynote Plenary Lecturer, Siberian Branch of the Russian National Academy of Sciences, Institute for Cytology and Genetics, Host: Nikolay Kolchanov and Петесов Сергей Викторович, Akademgorodok, Siberia, **Sept. 23 2014.**

**Moscow, Russia**

**The ENIGMA Project**, Lecture Presentation, Institute for Information Transmission Problems, Moscow, Host: Prof. Alexander Kuleshov, **Sept. 24 2014.**

**Bordeaux, France**

**The ENIGMA Project, Summer School Lecturer, Host: Dr. Laurent Petit and Dr. Bernard and Nathalie Mazoyer,**  
Sept. 26 2014.

**National Academy of Sciences, Institute of Medicine, Washington, DC**

**The ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions Worldwide,**  
**National Academy of Sciences, 2101 Constitution Ave., NW, Washington DC. Host Husseini Manji. Sunday Oct.**  
19 2014.

**Red Rock Country Club, Las Vegas, NV**

**The Future of Brain Mapping, Host: Tom Jackiewicz and Tony Alamo, USC Vegas Alumni Event, An Evening of**  
**Excellence, February 12, 2015.**

**University of Rotterdam, Netherlands**

**The ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions Worldwide,**  
**Host: Arfan Ikram MD PhD, SS Rotterdam Ship, February 23, 2015.**

**Free University of Amsterdam [Vrije Universiteit Medical Center, or VUMC], Netherlands**

**The Dutch ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions**  
**Worldwide, Hosts: Lianne Schmaal PhD, and Dick Veltman PhD, February 25, 2015.**

**Galen Center, Ostrow Department of Dentistry Research Day, Los Angeles, CA**

**The ENIGMA of the Human Brain: Analyzing 30,000 Brain Images and Genomes from 33 Countries to**  
**Discover What Helps or Harms the Human Brain, Host: Yang Chai DDS, PhD, Dept. Dentistry, USC;**  
2015 Research Day, March 25 2015.

**IMAGEN Retreat and Steering Committee, Verona, Italy**

*The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Gunter Schumann, April 1, 2015.*

**The Palace of Culture of the Railwaymen, Novosibirsk, Siberia, Russia**

*Neuroimaging of Brain Changes in Children and Throughout Life: Нейровизуализации головного мозга:*  
*Детство, Отрочество, Юность, Зрелость и Старость, 2<sup>nd</sup> International Conference on Pediatrics and*  
*Obstetrics, Host: Natalia Pasman, April 22, 2015.*

**Institute for Cytology and Genetics, Akademgorodok, Siberia, Russia**

*The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Prof. Yurii Aulchenko, April 23, 2015.*

**Child Health Center, Lomonosov Ulitsa, Moscow, Russia**

*The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Prof. Leyla Namasova Baranova, April*  
**24, 2015.**

**NSAS Connectomics Summer School**

*Imaging and Analyzing the Human Connectome: A 3-Hour Tutorial, Host: Francesco Pavone, Villy Finaly, Florence,*  
**Italy, May 14-15 2015.**

**Turtle Bay, Oahu, Hawaii**

**Update and Overview of ENIGMA: Organization & Working Groups, ENIGMA Planning Meeting, June 12 2015.**

**Albert Kruppskolleg, Greifswald University, Greifswald, Germany**

**How Do Cohort Studies Work? The "Radiogenomics" Academy for Young Scientists, Host: Prof.**  
**Norbert Hosten, Tuesday, June 23, 2015.**

The ENIGMA Consortium: Analyzing 30,000 Brain Images and Genomes from 33 Countries. (evening lecture), Host: Prof. Norbert Hosten, **Tuesday, June 23, 2015.**

**National University of Ireland, Galway, Ireland**

*Cracking the ENIGMA of the Human Brain: Connecting Genes, Brain Scans and Disease in 30,000 People*, Host: Gary Donohoe PhD, and Colm MacDonald MD PhD, Invited Lecture for the Opening of the NICOG Centre for Neuroimaging, Cognition, and Genomics, **Friday, July 3 2015.**

**Thai Red Cross, Bangkok, Thailand (2 lectures)**

Brain Imaging to Understand HIV Effects on Childhood Development

New Findings from the PREDICT Study of HIV in Thailand and Cambodia, Hosts: Victor Valcour MD, and Jintanat Ananworanich MD, Invited Lecture for the Thai Red Cross, Initiation of the HIV Resilience Study, **Friday, August 3 2015.**

**Ashville, North Carolina, USA**

Two talks: 9:00 - 9:30am **Neurodegenerative Diseases and Genomics**; 11:30-12:00 noon, **What is ENIGMA?**

**Host: Meng Law; Sunday Sept. 6 [these 2 talks were broadcast over the internet, i.e. presented virtually].**

**KAIST, Daejeon, South Korea**

**The ENIGMA Project: Mapping Disease and Genetic Effects on the Human Brain in 50,000 People Worldwide**, Host: JaeSeung Jeong, Keynote lecture at the opening of a new program in Brain and Computing, **Thursday Sept. 24, 2015.**

**University of Bordeaux, France**

**The ENIGMA Project: Mapping Disease and Genetic Effects on the Human Brain in 50,000 People Worldwide**, Host: Stephanie Debette, PhD, and Christophe Tzourio, **Tuesday Sept. 29, 2015.**

**University of Cuenca, Ecuador**

*The ENIGMA Project: Mapping Disease and Genetic Effects on the Brain in 50,000 People from 35 Countries Worldwide*, Keynote lecture, Host: Natasha Lepore, USC. November 19, 2015.

**Main Quad, Health Sciences Campus, Keck School of Medicine, Los Angeles**

**Note of thanks: Speech Acknowledging Mary and Mark Stevens and the Stevens Family Gift of \$50M to found the Institute for Neuroimaging & Informatics at USC, Wednesday October 7, 2015, 12 noon. Host: Max Nikias, President of USC.**

**Natcher Center, NIH, Bethesda**

**The State of the ENIGMA Center for Excellence in Big Data, Host: Mark Guyer and Phil Bourne, BD2K All-Hands meeting, Bethesda, MD, USA, November 13, 2015.**

**Limosov Moscow State University (MSU), Moscow, Russia**

International Scientific Cooperation, the ENIGMA Consortium, and Brain-Computer Interfaces (joint talk with V. Zelman)

Host: Alexander Kaplan PhD, and the Neuroscience Fund of the Vladimir Putin Family, **December 7, 2015.**

**Skoltech University, Moscow, Russia**

*The ENIGMA Project: Mapping Disease and Genetic Effects on the Brain in 50,000 People from 35 Countries Worldwide*, Keynote lecture, Host: Alexander Safonov, Alexander Kuleshov, and Vladimir Zelman. **December 8, 2015.**

**Russian National Academy of Sciences**

**The ENIGMA Project: Investigating Brain Diseases with Imaging and Genetics in 50,000 People**

Host: Alexander Petrovich Kuleshov PhD, Director of the Kharkhevich Institute for Information Theory, Moscow, Russian Federation. **December 10, 2015, 9am-12 noon.**

**Russian National Academy of Sciences**

**Expert Panel: “The Future of Technology in Neuroscience”**

Host: Alexander Kaplan PhD, Moscow State University, Moscow, Russian Federation. **December 10, 2015, 1-3pm.**

**European Molecular Biology Laboratory (EMBL), Cambridge, UK**

**The ENIGMA Project: Investigating Brain Diseases with Imaging and Genetics in 50,000 People**

Host: Peipei Ping PhD, Henning Hermjakob PhD, Directors, Heart BD2K Center of Excellence. **February 22, 2016, 2pm.**

**University of Maryland (Keynote Speaker)**

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Host: Rao Gullapalli PhD and David Seminowicz PhD, **April 12 2016.**

**Natcher Center, NIH, Bethesda, MD**

**Human Placenta Project**

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Host: David Weinberg PhD, **April 15 2016.**

**Loews Hotel, Santa Monica, CA**

**Waterman Symposium in Honor of Michael Waterman’s 75<sup>th</sup> Birthday**

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Hosts: Fengzhu Sun and Eleazar Eskin, Symposium in Honor of Michael Waterman’s 75<sup>th</sup> Birthday at RECOMB 2016 International Conference.

**Hong Kong Convention Centre, Hong Kong, China**

The ENIGMA Consortium and AUSSIE: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Hosts: Jeff Looi and Dennis Velakoulis, RANZCP Psychiatry Symposium [Invited Speaker], **May 10 2016.**

**Atlanta, Georgia**

The ENIGMA Data Blitz: A Summary of This Year’s Progress, ENIGMA All-Hands Meeting [Paul Thompson, Chair], Ritz-Carlton Hotel, Atlanta, GA, USA, **May 13 2016.**

**NIH, Bethesda, Maryland**

**ENIGMA, Big Data and the Connectome**, Hosts: Greg Farber and Brad Wise, NIH,

**The Human Connectome Project Celebration** [Keynote Speaker], **June 20 2016.**

**Geneva, Switzerland**

**ENIGMA: Ongoing and Planned Partnerships with IMAGEN**, ENIGMA-IMAGEN All-Hands Meeting [Paul Thompson and Gutner Schumann, Chairs], Geneva, Switzerland, USA, **June 23 2016.**

**Geneva, Switzerland**

**ENIGMA: A Summary of Last Year’s Progress**, ENIGMA All-Hands Meeting [Paul Thompson, Chair], Geneva, Switzerland, USA, **June 23 2016.**

**Geneva, Switzerland**

**ENIGMA, Hosts: Gunter Schumann and Uditia Iyengar**, International Adolescent Cohort Meeting, Geneva, Switzerland, USA. **Saturday June 25 2016.**

**Neuroradiology Department, Intermed Hospital, Ulaan Batar, Mongolia**  
**The ENIGMA Consortium for Worldwide Medicine: Mapping Brain Development and Diseases in 50,000 Individuals from 35 Countries, July 7 2016.**

**National Center for Maternal and Child Health of Mongolia (NCMCH), Ulaan Batar, Mongolia**  
**The ENIGMA Consortium for Worldwide Medicine: Mapping Brain Development and Diseases in 50,000 Individuals from 35 Countries, July 8 2016.**

**Shahid Beheshti University, Tehran, Iran**  
**ENIGMA: Mapping Brain Diseases in 50,000 Individuals from 35 Countries, Plenary Lecture at IHBM2016** held in Shahid Beheshti University, Tehran, Host: Mojtaba Zarei, MD PhD, September 22 2016.

**University of Vienna, Austria**  
**ENIGMA: Mapping Brain Diseases in 50,000 Individuals from 35 Countries, Plenary Lecture at 5<sup>th</sup> Biennial Conference on Resting State & Brain Connectivity**, Host: Martin Walter MD PhD, September 22 2016.

**Broad Institute, Massachusetts Institute of Technology (MIT), Boston, USA**  
**MRI Derived Insights into Neuropsychiatric Disorders: the ENIGMA Consortium, Neurepiomics Conference**, Hosts: Stephanie Dabette, Sudha Seshadri, Bernard Mazoyer, Sept. 26 2016.

**Chinese Congress of Radiology, Shanghai, China**  
**ENIGMA and International Studies in Imaging and Genetics**, Host: Chunshui Yu, Sozhou, China, Oct. 10 2016.

**Tianjin Medical University, Tianjin, China**  
**Analysis of Imaging and Genetic Data (Tutorial)**, Host: Junping Wang and Chunshui Yu, Department of Radiology, Tianjin Medical University General Hospital, Oct. 16 2016.

**NIH Site Visit, Sonoma, CA, USA**  
**Progress on the ENIGMA Project**, Host: Vinay Pai, NIBIB, Sept. 29 2016.

**California Big Data Symposium, Sonoma, CA, USA**  
**The ENIGMA BD2K Center**, Host: Joe Ames and Arthur Toga, USC, Sept. 30 2016.

**National Institutes of Health, Bethesda**  
**Worldwide Big Data Collaborations: Examples From ENIGMA**, Spanning 35 Countries. Host: Jennie Larkin, ADDS, NIH, Bethesda, MD, USA. November 30, 2016.

**Moscow Child Health Center, Moscow, Russia (2 lectures)**  
**ENIGMA and Global Brain Imaging**, Host: Leyla Namazova and Alexander Baranov, Moscow, December 12 and 13, 2016.

**SkolTech (Skolkovo Institute of Technology), Moscow, Russia**  
**ENIGMA-Russia – Global Brain Science and Big Data in Russia and Worldwide**, Host: Alexander Kuleshov, President of SkolTech, Moscow, December 14, 2016.

**Kona, Hawaii, USA**

Keynote Speaker: ENIGMA, Pacific Symposium on Biocomputing, Host: Li Shen, University of Indiana, Jan. 6 2017.

**Thai Red Cross, Bangkok, Thailand (2 lectures)**

Brain Imaging to Understand HIV Effects on Childhood Development

New Findings from the PREDICT, Resilience, and CIPHER Studies of HIV in Thailand and Cambodia, Hosts: Victor Valcour MD, and Jintanat Ananworanich MD, Invited Lecture for the Thai Red Cross, Initiation of the HIV CIPHER Study; also Panel Workshop for Physicians at the Queen Sirikit Convention Center, Bangkok, **January 20 2017**.

**Mysore, India**

ENIGMA and Global Consortia

Presentation to the c-VEDA Consortium, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **March 10 2017**.

**NIMHANS, Bangalore, India**

ENIGMA, Neuroimaging and Genomics in Psychiatric Research

Presentation to the NIMHANS faculty, Educational Day, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **March 11 2017**.

**Peninsula Hotel, Beverly Hills Book Club**

Brain Mapping in Psychiatric Illness, Presentation to the Beverly Hills Book Club hosted by USC Trustee Julie Kusmiersky, **March 21 2017**.

**Mallinckrodt Institute of Radiology (MIR) at Washington University, Saint Louis.**

ENIGMA and Brain Imaging of Disease Worldwide, Host: Beau Ances MD PhD, **March 28, 2017**.

**Melbourne, Australia**

Keynote Speaker for ISBI 2017. ENIGMA and Global Brain Imaging, Host: Gary Egan, Monash University, Australia, **April 21 2017**.

**San Diego, California**

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Marriott Marquis Hotel, San Diego, CA, **May 16 2017**.

**Vancouver, Canada**

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Pan Pacific Hotel, Vancouver, Canada, June 17 2017.

**Societe des Gens de Lettres, Paris, France**

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Paris, France, Sept. 5 2017.

**Nijmegen, The Netherlands**

ENIGMA, Keynote Speaker, Cognomics Conference, Hosts: Barbara Franke, Simon Fisher, Radboud University Medical Centre and Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, Sept. 7 2017.

**Huntington Beach, California**

ENIGMA and Big Data, Speaker, CA Big Data to Knowledge Conference, Sept. 15 2017.

**Washington, DC**

ENIGMA, Big Data and Imaging Genomics, Host: Avram Holmes, Ph.D., Yale University, Society for Neuroscience Nanosymposium, Nov. 12 2017.

#### **Washington, DC**

ENIGMA and Biomarkers of Degenerative Disease, Host: Marg Sutherland, Ph.D. Program Officer, NINDS, and David Stone, Merck, Inc., Nov. 12 2017.

#### **William B. Kouwenhoven Memorial Lecture, The Johns Hopkins University, Baltimore**

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries. Hosts: Archana Venkataraman and Jerry Prince, JHU, Nov. 13 2017.

#### **Brigham Women's Hospital, Harvard University, Boston, MA**

The ENIGMA Consortium: Collaborations with the Harvard/MIT National Alliance for Computing (NAC) Center, Hosts: CF Westin PhD, Polina Golland PhD, Ron Kikinis PhD, Nov. 15 2017.

#### **Doha, Qatar**

*The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries*, 3<sup>rd</sup> International Symposium on Functional Genomics, sponsored by Nature Genetics and Sidra Medicine, Host: Khalid Fakhro and Rana Hamada, Dec. 2017.

#### **Calcutta (Kolkata), India**

ENIGMA and Global Consortia

Presentation to the c-VEDA Consortium, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), at the Regional Occupational Health Centre, Calcutta, India, **Jan. 19 2018**.

#### **NIMHANS, Bangalore, India**

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries

CME Presentation at Capacity Building Workshop, NIMHANS, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **Jan. 22 2018**.

#### **Keynote Plenary, SNR 2018, Taipei, Taiwan**

**Big Data & Precision Medicine**, Hosts: Meike Vernooij MD PhD, Erasmus University, Rotterdam, and Sandy Cheng-Yu Chen, MD (Chair, Scientific Program and Vice President, SNR 2018). **March 22 2018**.

**2<sup>nd</sup> Lecture: Challenges for Big Data Neuroimaging Analytics & Resources**, Hosts: Meike Vernooij MD PhD, Erasmus University, Rotterdam, and Sandy Cheng-Yu Chen, MD (Chair, Scientific Program and Vice President, SNR 2018). **March 22 2018**.

#### **Oslo, Norway; Plenary Lecture**

*ENIGMA – how can large scale brain imaging studies reveal insight into mental illness? Update from the ENIGMA project*, Host: Ole Andreassen, MD PhD, Conference on Addiction and Mental Health, co-hosted by the Norwegian NFR and NORMENT, including an afternoon workshop on the ENIGMA Consortium. **June 1 2018**.

#### **Singapore**

*How do common variants affect brain structure?* Invited Lecture in the Imaging Genomics Workshop, OHBM 2018 Conference tutorial workshop, Chair: Jason Stein, PhD, University of North Carolina (UNC), **Sunday June 17 2018**.

#### **Cumberland Lodge, Windsor Park, Berkshire, UK (June 27)**

and



### **King's College London, Institute of Psychiatry, Denmark Hill, UK (June 29)**

*Updates on ENIGMA*, Two lectures at the Launch of the King's College London (KCL) Center for Population Neuroscience and Precision Medicine (PONS), Host: Gunter Schumann MD PhD, Head/Co-Chair of the international GIGA, IMAGEN and c-VEDA projects, **June 27 and 29 2018**.

### **Granada, Spain**

*Imaging, Genomics and Biobanks: Lessons Learned in the ENIGMA Consortium*. Hosts: Mart Sabuncu, Adrian Dalca, Li Shen, MICCAI Workshop, "Beyond Medical Image Computing." **September 20, 2018**.

### **Tehran, Iran**

*ENIGMA, Big Data & the Brain: Imaging and Genomics of Brain Diseases in 50,000 Individuals from 35 Countries*. Hosts: Mojtaba Zarei & Masoud Tahmasian, Shahid Beheshti University, **September 29, 2018**.

### **Utrecht, The Netherlands**

*ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 70,000 Individuals from 35 Countries*. Host: Hilleke Hulshoff Pol, PhD. Conference to Celebrate the 5<sup>th</sup> Anniversary of the UBC (Utrecht Biocomputing Centre). **October 1, 2018**.

### **Los Angeles, USA**

*The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging and Genomics in 70,000 Individuals from 40 Countries*. Symposium Chair: Mark Shiroishi, MD. Symposium on Multimodal Imaging at the Society for Brain Mapping & Therapeutics Annual Conference, Los Angeles Convention Center, CA, USA. **March 17, 2019**.

### **Fukuoka, Japan**

ENIGMA and Global Neuroscience. Symposium on COCORO (Japanese Consortium), ENIGMA, and their partnerships. Chair: Ryota Hashimoto, MD PhD. Fukuoka International Congress Center, Fukuoka, Japan. **October 11, 2019**.

### **NIH Natcher Center, Bethesda, MD, USA**

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 90,000 Individuals from 35 Countries, **Keynote Speaker: 2020 National Capital Area TBI Research Symposium, March 2020**.

### **Chinese Young Scholars Association**

ENIGMA, Big Data & the Human Brain: Imaging & Genomics of Brain Diseases in 100,000 Individuals from 45 Countries. **Host: Chao-Gan Yan, Ph.D., Keynote Speaker for the 4<sup>th</sup> Annual Chinese Young Scholars Symposium**, in association with the OHBM meeting, June 2020 [virtual presentation].

### **NIMHANS, Bangalore, India**

*The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging and Genomics in 70,000 Individuals from 40 Countries*. **Host: Janardhan Reddy MD, NIMHANS International Symposium in Psychiatry, August 1-2 2020 (canceled due to COVID pandemic)**.

### **University of Michigan, Ann Arbor, MI, USA**

ENIGMA, Big Data & the Human Brain: Imaging & Genomics of Brain Diseases in 100,000 Individuals from 45 Countries. **Host: Ivo Dinov, Ph.D., Keynote Speaker for the [Advanced Computational Neuroscience Network \(ACNN\) consortium](#) Annual Symposium**, Sept. 4 2020 [virtual presentation].

### **Michigan State University, MI, USA**

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 100,000 Individuals from 45 Countries, **Host: Rebecca Santelli, Ph.D.**, October 28 2020 [virtual presentation].

**Chinese Academy of Sciences, Beijing, China**

The ENIGMA Consortium, Host: Chao-Gan Yan, PhD, talk for the International Big-Data Center for Depression Research, Feb. 22, 2021 [virtual presentation, with Chris Ching, Ph.D.]

**William H. Feindel Lecture (Annual Lecture in Honor of MNI Neurosurgeon William Feindel)**

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 100,000 Individuals from 45 Countries, Host: **Martin LePage, Ph.D.**, Director of the Quebec Bio-Imaging Network, Canada, March 11 2021 [virtual presentation].

**NIH AD Summit, Bethesda, MD, USA**

Ultrascale Machine Learning to Empower Discovery in AD Biobanks: Deconstructing Disease Complexity: from Populations to Single Cells, from Genes to Multiscale Models, Hosts: **Erika Tarver, Susana Petanceska, Laurie Ryan**, NIA Program, April 19, 2021 [virtual presentation].

**ADSP Program Review, Bethesda, MD, USA**

AI4AD: Artificial Intelligence for Alzheimer's Disease, Hosts: **Marilyn Miller and Josh Bis**, April 23, 2021 [virtual presentation].

**SOBP Symposium, San Diego, CA, USA**

ENIGMA and the PGC: An Update, Symposium at the SOBP Conference, Co-Chairs: **Paul Thompson and Sarah Medland**, April 29, 2021 [virtual presentation].

**USC AI Futures Conference, Los Angeles, CA, USA**

Image Analysis in Neuroscience, Host: **Yolanda Gil, Ph.D.**, USC AI Futures Symposium on Artificial Intelligence and Data Science, May 3 2021 [virtual presentation].

**2021 Alzheimer's Disease Genetics Global Symposium: Pathway to Translation, NIA, Bethesda, MD**

Artificial Intelligence Approaches for Discovery in Alzheimer's Disease Biobanks, Hosts: **Margaret Pericak-Vance, Ph.D. and NIA Program**, September 1, 2021 [virtual presentation]. Online here: <https://www.youtube.com/watch?v=97byrXeoJA4>

**Annual IMAGEN-PONS meeting, Florence, Italy**

Update on the ENIGMA Consortium, Host: Gunter Schumann, MD. September 2, 2021 [virtual presentation].

**MICCAI Machine Learning in Clinical Neuroimaging Workshop (MLCN 2021) – Keynote Speaker**

AI and Deep Learning in Medical Imaging and Genomics: Lessons from ENIGMA's Global Studies of Brain Diseases, Host: Mostafa Kia Seyed, PhD, [virtual presentation]. September 27, 2021.

**ADRC Directors' Meeting 2021**

ENIGMA, Host: Oscar Lopez, MD PhD, Director of the Pittsburgh ADRC, and Walter Kukull, MD, Direct of the NACC, National Alzheimer's Coordinating Center. September 27, 2021.

**American Society for Functional Neuroradiology (ASFNR) 2021, Invited Lecture, Santa Fe, NM**

The ENIGMA Consortium, A lecture in a symposium on data sharing in radiology, Hosts: Greg Zaharchuk and Daniel Baboriak MD, El Dorado Hotel, Santa Fe, NM, September 20, 2021 (in person lecture).

**World Medical Imaging Congress (WMIC) 2021, Miami Beach Convention Center, FL**

AD imaging and AI - Can Artificial Intelligence and Deep Learning Accelerate Alzheimer's Disease Research? Invited Lecture [virtual presentation], Host: Michelle James, PhD and Lisa Baird, CEO of WMIC 2021, October 8, 2021.

### **NIA Artificial Intelligence and Machine Learning (AIML) Consortium Kick-Off Symposium**

AI4AD: Artificial Intelligence for Alzheimer's Disease, Host: Jennie Larkin, PhD, NIA Program. October 14, 2021.

### **American Neurological Association (ANA) 2021, Invited Lecture**

AI Applications in Alzheimer's Disease, a recording for the online symposium **Artificial Intelligence Applications in the Clinical Assessment of Alzheimer's Disease**, Hosts: Cassie Mitchell PhD and Beau Ances MD, [virtual presentation]. October 19, 2021.

### **Global Brain Consortium Annual Meeting, Montreal, Canada**

**A GBC-ENIGMA Partnership on EEG in Parkinson's Disease**, Host: Alan Evans, Ph.D., November 22, 2021 [virtual presentation].

### **American Epilepsy Society (AES) Conference 2021, Chicago, IL**

The ENIGMA Consortium, Hosts: Carrie McDonald PhD and Leo Bonilha MD, in person lecture, McCormick Conference Center, Chicago, IL, **December 3, 2021**.

## **II.B. ADDITIONAL MEETINGS ATTENDED & PLATFORM TALKS:**

- International Conference on Visualization in Biomedical Computing, Hamburg, Germany (**Invited Speaker**) 1996
- Medical Robotics and Computer-Assisted Surgery, Johns Hopkins University, Baltimore 1996
- Society for Neuroscience, 1993-
- International Conference on Functional Mapping of the Human Brain, Boston 1996, Copenhagen 1997 (**Invited Speaker**), Montreal 1998, San Antonio 2000 (**Invited Speaker**), New York 2004 (**Invited Speaker**), Toronto 2005 (**Invited Speaker**)
- Pittsburgh Supercomputing Center: Biomedical Image Analysis and Visualization Workshop (**Invited Speaker**) 1998
- 1998 International *BrainMap* Conference, San Antonio, Texas (**Invited Speaker**) 1998

## **III. MEDIA COVERAGE**

### **III.A. INTERNATIONAL (U.S./Canada)**

- Mackenzie D (2000). *The Shape of Madness*, **Discover Magazine**, Jan. 2000 Issue. CIRCULATION: 2.2 Million readers. 8-page Feature Article. Reviewed our research findings in schizophrenia and Alzheimer's Disease, and our computational work in creating population-based digital brain atlases.

### **III.B. NATIONAL**

- Rausch C (2000). *Mapping the Collective Consciousness: Images of the Century*, **Wired Magazine**, Jan. 2000 Issue. Full-page Graphic and Feature. Illustrated our research on encoding patterns of neuroanatomical variability in large human populations.
- Mahoney D (2000). *Insight Section: Advances in Graphical Visualization*, **Computer Graphics World**. Jan. 2000 Issue. Full-page Graphic and Feature. Illustrated our research in visualization of brain imaging data and mapping abnormalities of organization at the human cortex.
- Mahoney D (2001). *Insight Section: Mapping Brain Disease*, **Computer Graphics World**. Feb. 2001 Issue. Full-page Graphic and Feature. Illustrated our research mapping the dynamic profile of tissue loss in schizophrenia.

### III.C. REGIONAL

- Gannis M (1999). *Bioinformatics Infrastructure for Large-Scale Analyses*, **Envision**, Fall 1999 Issue, San Diego Supercomputing Center Quarterly Science Magazine. 2-page Feature Article. Reviewed our research developing high-performance algorithms for analysis of brain imaging data in diseased populations.
- Maisel M (1999). *Making Headway in Computational Neuroscience* [Cover Article], **Envision**, Summer 1999 Issue, San Diego Supercomputing Center Quarterly Science Magazine. 2-page Feature Article. Reviewed our research using mathematical algorithms and large image databases to synthesize probabilistic atlases of the human brain.

### III.D. PROFESSIONAL

- Lauerman J (2000). *Brain Atlases Reveal Individual Terrain*, Dana Foundation National Newsletter, vol. 10, no. 1, Jan./Feb. 2000. Special Issue on news from the 29<sup>th</sup> annual Society for Neuroscience meeting in Miami, Florida, Oct. 1999. Highlighted our research on algorithms for early detection of gray matter loss in Alzheimer's Disease.
- Lipton L (2000). *Morphometrics Opens Door to More Precise Brain Studies*, **Psychiatric News** (Newspaper of the American Psychiatric Association). Highlighted our research on structural imaging in schizophrenia, dementia and brain development. May 19, 2000.
- Crutcher K (2000). *A Glimpse into the Future?*, **Alzheimer's Forum** Highlighted our research on mapping brain change in Alzheimer's Disease, presented at the Society for Neuroscience in New Orleans, LA, Nov. 2000.

### III.E. NEWSWIRES/NATIONAL NEWSPAPERS/TV NETWORKS

i. The following newswires, TV networks and daily newspapers covered our *Nature* report on **mapping growth in the brains of children**:

- New York Times. *Study: Brains Grow Furiously* (March 9, 2000)
- Washington Post. *Key Brain Growth Goes On Into Teens*, Front Page Article by Curt Supplee (March 9, 2000).
- USA Today. *Kids' Brains Still Growing Into Puberty* (March 9, 2000).
- Los Angeles Times. *Scientists Map Patterns of Growth in Young Brains*, by Science Editor Robert Lee Hotz (March 9, 2000)
- Globe and Mail (Canada). *Scientists Map Growth of Children's Brains* (March 9, 2000); *Brains Develop into Puberty, Study Says* (March 10, 2000), Health Feature Article by Christa Foss.
- Chicago Tribune, *Brain Develops through Age 15, Study Suggests* (March 10, 2000).
- Arizona Republic, *Child Brain Studies Offer New Insights* (March 9, 2000).
- Philadelphia Inquirer, *Brain Not Finished Developing by Age 6, Scientists Now Say* (March 9, 2000).
- San Gabriel Valley Tribune, *Child Brain Study Finds Growth Spurts* (March 10, 2000).
- San Jose Mercury News, *Stunning Brain Changes Traced as Children Mature* (March 9, 2000)
- Press Telegram, *Brain Changes Mapped* (March 9, 2000)
- Watertown Daily Times, *Study: Brain Growth Goes on Into Teens* (March 9, 2000).
- Cincinnati Post, *Brains Continue to Grow: Study: Intellect in Teens Doubles* (March 9, 2000).
- San Francisco Chronicle, San Diego Union Tribune, Las Vegas Sun, Contra Costa Times, Miami Herald, Popular Science Magazine, and other AP syndicates
- Beloit Daily News, *Brains Grow Well Into Puberty* (March 10, 2000).

#### International:

- The Times of India (New Delhi). *Scientists Map Children's Brain Development* (March 13, 2000); also *Study: Brains Grow Furiously* (March 11, 2000); reprinted in Heart Care Foundation of India (March 2000 Issue): *Children's brains grow furiously: Study*
- Indian Express (Bombay) *Scientists Map Children's Brain Development* (March 10, 2000).
- News International (Pakistan). World News Section. *Children's Brains* (March 9, 2000).
- Irish Examiner (Ireland). *Brain Grows at Dramatic Rate into Puberty* (March 10, 2000).

- Swedish News (Sweden). [in Swedish:] *Tonåren avgörande för att utveckla hjärnkapaciteten* (March 24, 2000).
- Polish Newswire (Poland). [in Polish:] *Rzeczpospolita*, Nr. 61 (March 13, 2000). *Neurobiologia: Dopiero po 20. roku życia ostatecznie kształtują się emocje, samokontrola i zdolność empatii: Życie wewnętrzne mózgu*, by Zbigniew Wojtasinski (March 13, 2000).
- Spiegel Online (Germany). [in German:] *Neurologie: Gehirnentwicklung erfolgt noch bis zur Pubertät* (March 10, 2000).
- Periódico Público (Mexico). [in Spanish:] *Año III, número 907: El cerebro cambia en la adolescencia: Si se desarrollan destrezas en esta época, quedarán incorporadas de por vida* (March 10, 2000).
- Associated Press Newswire. *Study: Brains Grow Furiously* (March 9, 2000).
- Reuters Newswire. *Scientists Map Children's Brain Development* (March 8, 2000).
- ReutersHealth Newswire. *Brain Development Revealed in 4-D* (March 8, 2000).
- United Press International (UPI) Newswire. *Scientists Map Brain Growth Patterns* (March 8, 2000).
- UC Newswire. *Scientists Map Brain Development in Four Dimensions, Revealing Stage-Specific Growth Patterns in Children*, Article by Alan Eyerly (March 10, 2000).
- UCLA Today. *Guide to Optimal Learning: Scientists Track Growth of Human Brain*, Article by Alan Eyerly (April 4, 2000).
- UCLA Magazine. *Lifelong Learning*, (Summer 2000 Issue; June 30, 2000).
- ABC News. *Scientists Map Brains of Kids*.
- MSNBC News. *Scientists Map Brain Development: Technique Could be used in Alzheimer's Treatment* (March 8, 2000)
- Fox News. *Scientists Map Brain's Development* (March 8, 2000).
- WebMD.com. *New Tool Shows How a Child's Brain Grows: May Some Day Help Doctors Assess Children's Development*, Front Page Article by Daniel J. DeNoon, WebMD Medical News (March 14, 2000).
- CNEWS Canadian News Network. *Fine-Tuning the Mind: Children's Brains Grow Furiously Into Puberty* (March 9, 2000)
- NewsNow Health Network, Johns Hopkins IntelliHealth Network, About.com News Network
- HealthScout News Network. *Brain Growth Goes Into the Teen Years: New Study Shows Development Up to Age 15* (March 13, 2000)
- DrKoop.com and Medical PressCorps News Service. *Scientists Map the Growing Brain*, by Paul Candon (March 9, 2000)
- Education Week. *Study Suggests that Brain Growth Continues into Adolescence*, by Linda Jacobson (March 22, 2000)
- Education Week. 2<sup>nd</sup> Article. *Special Feature on Teenage Brain Development*, by Linda Jacobson (October 4, 2000)
- Education Week. 3<sup>rd</sup> Article. *Letters to Editor*, by Gladys Lipton (October 22, 2000). Highlighted our research and its relevance to current policy in teaching foreign languages.
- Youth Today. *Message from Teen Brains: It's Not Too Late!* by Diana Zuckerman (April 2000 Issue); reprinted by the National Center for Policy Research for Women and Families, *News You Can Use on Children's Health*, April 2000.
- News Primedia: News in the Workplace. *Study Shows Brains Growing Drastically During Childhood* (March 2000).
- The Complexity Digest. *How Do Brains of Children Grow?* by Dean LeBaron and Gottfried J. Mayer (March 18, 2000).
- Pittsburgh Post-Gazette. *What teens do may affect how their brains are built: Scientists say brains are 'pruned' until age 19 or 20, but it's not clear what determines what's lopped off*, By Rachel Smolkin, Post-Gazette National Bureau. Sunday, May 7, 2000.
- Brainconnection.com. *Brain Study May Provide Some Help for Educators*, Gargi Talukder, Stanford University, June 16, 2000.

- Focus Magazine (International; Milan, Italy). *Special Feature on Brain Development and Childhood Onset Schizophrenia*, by Amelia Beltramini, Science Editor (to appear, Fall 2000)
- Offspring Magazine (National & International). Front Page/8-page feature. *How to Help Your Kid Excel*, by Shannon Brownlee and Lisa Kalis. Highlighted our research charting brain growth in children; interview on brain development in children. Dec. 2000/Jan. 2001 Issue.
- Seattle Chamber Magazine. *Feature Article: Brain Research Reveals Kids' Key Periods for Learning*, Interview. Jan. 2001 Issue.

## ii. Coverage of National Academy of Sciences Workshop, May 2001

- Reuters Health Newswire. *Brain Scan Technology Poised to Play Policy Role*, by Todd Zwillich, Washington, May 2, 2001.  
Reprinted in: MEDLINE Plus (News), June 2001; Hoosier Times, June 5, 2001; Autism Digest Magazine, May 4, 2001.
- Washington Post. Front Page Article. *Are Teens Just Wired That Way? Researchers Theorize Brain Changes Are Linked to Behavior*, by Shankar Vedantam, Washington Post Staff Writer. Sunday, June 3, 2001; Page A01.  
Reprinted in:
  - San Francisco Chronicle. *Theory says teens wired to take risks; Researchers think rebelliousness may be linked to brain changes*, <http://www.sfgate.com/cgi-bin/article.cgi?f=/chronicle/archive/2001/06/05/MN14265.DTL>. June 5, 2001.
  - MSNBC News. *Are Teens Just Wired That Way?* June 6, 2001.
  - Detroit News. *Brain Changes May Affect Teen Behavior*. June 7, 2001.
  - Orlando Sentinel. July 1, 2001.
  - Boston Globe.
  - Quad-City Times, Iowa. *Maybe Teens are Just Wired That Way: Changes In Brain Could Account For Erratic Behavior*. Section: Health, Page A5. Sat. June 9, 2001.  
Also reprinted in *Today* (Magazine of the International Child and Youth Network; June 5, 2001)
- Aquilone News (Italy). *Lo studio di due ricercatori Usa: cambiamenti radicali tra adolescenza e maturita'*, by Alessandra Farkas. June 2001.
- Galileo News (Italy). *ADOLESCENZA: La rabbia dei teen-ager? E' il cervello che muta*. June 4, 2001.
- Il Giornali di Vicenza (Italy). *Adolescenti scapestrati? Macché ormoni è tutta colpa del cervello*. June 4, 2001.
- Medicina Y Familia (Peru). *La adolescencia sería un periodo crítico para el cerebro*. June 2001.
- Chicago Tribune. *The Teen Brain Theory*. By Meghan Mutchler Deerin, Chicago Tribune Health Section. August 28, 2001.

## iii. Coverage of Schizophrenia Paper, Proceedings of the National Academy of Sciences, Sept. 2001

- Reuters Health (New York). *Study charts path of brain damage in schizophrenia*. By Amy Norton. Sept. 24, 2001.
- ABC Newswire. *Mystery of the Mind, New Study Provides Clues as to What Causes Schizophrenia*. By *Jenette Restivo*. Sept. 24, 2001.
- UPI Newswire. *Doctors Map Schizophrenia Progression*. By Norra MacReady. Sept. 24, 2001.
- Reuters Health Professional Newswire (Westport, CT). *Spreading waves of gray matter loss occur in early-onset schizophrenia*.

- Yahoo Newswire. *MRI Sheds New Light on Schizophrenia. Destruction of "gray matter" in the brain may lead to debilitating mental illness.* Sept. 24, 2001.
- BBC News, England. *Schizophrenics suffer brain 'forest fire'.* Sept. 25, 2001.
- Aerzte Zeitung. *Gehirnverlust breitet sich wie eine Welle aus. Neue MRT-Diagnostik bei Schizophrenie-Kranken / Verlauf des Substanzverlusts über fünf Jahre nachgezeichnet.* Sept. 24, 2001. [in German]
- Wissenschaft Online. *Die Nebel lichten sich: Hirnveränderungen bei Schizophrenie.* Sept. 25, 2001. [in German]
- Science Daily. *UCLA Researchers Map How Schizophrenia Engulfs Teen Brains.* Sept. 25, 2001.
- Health Media/Yahoo Headlines. *Schizophrenic brain images "offer hope for new treatments".* Sept. 26, 2001.
- Toronto Star. *A Disturbing Report on A Cruel Disease.* By Jay Ingram, Science Correspondent. Sept. 30, 2001.
- Dr. Koop.com. *Scientists Map Schizophrenia's Destruction.* By Lee Hickling, drkoop.com Health Correspondent. Oct. 1, 2001.
- Mental Health Weekly. *MRI Reveals Brain Changes Associated with Schizophrenia,* vol. 11, no. 37. Oct. 1, 2001.
- Nature Reviews Neuroscience. *Psychiatric Disorders: Mapping grey matter.* By Rachel Jones. Nature Reviews Neuroscience vol. 2, no. 11. November 2001 Issue.
- Clinical Psychiatry News. *NOVEL MRI TECHNIQUE: Childhood Schizophrenia Starts as Wave of Tissue Loss.* By Norra MacReady, International Medical News Group, Los Angeles Bureau. To appear.
- Neuropsychiatry Reviews. By Liz Lipton and Peter Doskoch. To appear.

#### **iv. Coverage of Genetics, Brain Structure and Intelligence Paper, Nature Neuroscience, Nov. 2001**

The following newswires, TV networks and daily newspapers in 20 countries covered our *Nature Neuroscience report on genes, brain structure and IQ:*

Discovery Channel (video interview, Nov. 16, 2001; 3 minutes)

*Additional Press Coverage:*

**New York Times** (November 5, 2001)

**Scientific American** (November 7, 2001)

**Science** (November 16, 2001)

Nature Neuroscience Cover (November 25, 2001)

BBC World Service Radio Broadcast (November 6, 2001)

National Geographic (November 8, 2001)

Reuters Health Professional Newswire (November 5, 2001)

Reuters Health Consumer News (November 5, 2001)

Genome News Network (with images; November 9, 2001)

UPI Newswire (November 5, 2001)

BBC News (London; November 5, 2001)

Dallas Morning News (January 14, 2002)

Frankfurter Allgemeine Zeitung (Germany; November 5, 2001)

Frankfurter Allgemeine Zeitung [2nd Article] (Germany; November 13, 2001)

Ha'aretz (International Newspaper of Israel; in Hebrew; November 11, 2001)

Stern (Germany; November 15, 2001)

Hospodársky Denník (Slovakian News Service; in Slovak; November 21, 2001)

Tiscali News (in Czech; November 11, 2001)

Pantax News (in Czech; November 25, 2001)

Klik News Magazine (Croatia; in Serbo-Croat; November 8, 2001)

Ekologija News (Croatia; in Serbo-Croat; November 9, 2001)

Vecernji Editorial (Croatia; in Serbo-Croat; November 18, 2001)

Radio Liberty (in Russian; November 6, 2001)

La Nacion (Argentina; in Spanish; November 6, 2001)  
Cadime News (Argentina; in Spanish; November 6, 2001)  
Hersenletsel News (The Netherlands; in Dutch; November 10, 2001)  
Medisch Contact (The Netherlands; in Dutch; November 9, 2001)  
Mozon News (Norway; in Norwegian; November 6, 2001)  
Union Radio (Venezuela; in Spanish; November 7, 2001)  
Venezuela Innovadora (Caracas, Venezuela; in Spanish; November 8, 2001)  
Inforcyt News (Ecuador; in Spanish; November 9, 2001)  
Medicentrum Hungary (Budapest; in Hungarian; November 8, 2001)  
Origo News (Hungary; in Hungarian; November 7, 2001)  
Gondola News (Hungary; in Hungarian; December 26, 2001)  
Elender News (Hungary; in Hungarian; November 8, 2001)  
Hirek News (Hungary; in Hungarian; November 8, 2001)  
Imperial Network News (Skopje, Macedonia; in Serbo-Croat, Macedonian variant; November 8, 2001)  
Shanghai News (China; in Chinese; November 9, 2001)  
Biosino Health News (China; in Chinese; November 5, 2001)  
Kordic News (Korea; in Korean; November 5, 2001)  
Vietnam Express (Vietnam; in Vietnamese; November 6, 2001)  
Vietmedia News (Vietnam; in Vietnamese; November 16, 2001)  
Prometheus News (Brazil; in Portuguese; November 11, 2001)  
Oficina Informa News (Brazil; in Portuguese; November 10, 2001)  
Free ML News (Japan; in Japanese; November 12, 2001)  
Blaxos News (Greece; in Greek; November 7, 2001)  
Estonian Genome Foundation (Estonia; in Estonian; November 5, 2001)  
La Tercera (Chile; in Spanish; January 10, 2002)  
El Norte de Castilla News (Spain; in Spanish; January 10, 2002)  
Rheinische Post (Germany; November 5, 2001)  
Heise Editorial, with images (in German; November 6, 2001)  
Der Tagesspiegel (in German; November 8, 2001)  
Aerzte Zeitung (Germany; November 6, 2001)  
Expedition Zone News (in German, with images; November 6, 2001)  
RAI News (Italy; November 10, 2001)  
KW Newswire (Italy; November 15, 2001)  
La Nazione (Rome, Italy; November 4, 2001)  
La Stampa (Italy; November 5, 2001)

Clarín News Service (Italy; November 6, 2001)  
EC Planet News Service (Italy; November 6, 2001)  
Yahoo France (in French; November 7, 2001)  
Hindustan Times (India; November 6, 2001)  
New Scientist (November 6, 2001)  
New Scientist (2nd article; November 10, 2001)  
Schweizerische Depeschagentur AG (SDA) (Switzerland; November 4, 2001)  
El Mundo Salud (Spanish; November 5, 2001)  
BBC Mundo (BBC World Service Spanish version; November 6, 2001)  
Presstext Austria (Austria; in German; November 15, 2001)  
Oman Observer (Oman; November 6, 2001)

The Independent (England; November 5, 2001)  
The Scotsman (Scotland; November 5, 2001)  
Daily Mail (London; November 6, 2001)



The Mirror (London; November 5, 2001)  
Daily Californian (November 5, 2001)  
Western Mail and Echo (November 5, 2001)  
Western Daily Press (Bristol, England; November 5, 2001)  
Ananova Newswire (November 5, 2001)  
Courier Mail (Australia; November 5, 2001)  
Lexington Herald (Kentucky; November 5, 2001)  
Belfast News (Ireland; November 5, 2001)  
Herald Sun (November 8, 2001)  
The Age (Australia; November 5, 2001)  
Cosmiverse News (November 5, 2001)  
Jewish World Review (November 9, 2001)  
New York Times (2nd article; November 11, 2001)  
CBS News (November 19, 2001)  
Manila Bulletin (Philippines; November 15, 2001)  
Singles Connection News (November 2001)  
Dyslexia Teacher (November 2001)  
Science and Spirit Magazine (Jan./Feb. 2002)  
Biological Psychology Newsletter (December 19, 2001)

#### **v. Coverage of Alzheimer's Disease Paper, Journal of Neuroscience, Feb. 2003**

The following newswires, and daily newspapers covered our *Journal of Neuroscience* report on video mapping of the progression of brain changes in Alzheimer's disease:

**New York Times.** *New Method Aids Evaluation of Alzheimer's Drugs.* By Erica Goode. February 6, 2003.  
**Wall Street Journal.** *Alzheimer's Patients Show Rapid Brain-Cell Erosion.* By Bob McGough. February 6, 2003.  
**Boston Globe.** *Inside the damaged brain. New dynamic imaging techniques provide a deeper look at Alzheimer's and schizophrenia.* By Robert Adler. May 6, 2003.  
**USA Today.** *Made in her Mother's Image?* By Kathleen Fackelmann, March 12, 2003.  
Reuters Newswire. *Scans Show Dramatic Brain Cell Loss in Alzheimer's.* By Maggie Fox. February 6, 2003.  
Reuters Italy. *Salute: risonanza scopre come procede Alzheimer, risultati online.* February 6, 2003.  
ESS Finnish News (Finland). *Alzheimer etenee luultua nopeammin.* February 6, 2003.  
Dr. Koop. *New Video Technique Allows Tracking of Alzheimer's.* February 6, 2003.  
Houston Chronicle. *Vast loss of brain cells shown in Alzheimer's.* February 6, 2003.  
Charlotte Observer. February 6, 2003.  
South African Broadcasting Corporation News. *Scans Show Dramatic Brain Cell Loss in Alzheimer's.* February 6, 2003.  
International Herald Tribune (France). *Videos Can Now Track Alzheimer's.* February 6, 2003.  
Sydney Morning Herald (Australia). *Scans Show Dramatic Brain Cell Loss in Alzheimer's Patients.* February 6, 2003.  
New York Times. *Computer images show the progressive damage of Alzheimer's disease in the human brain.* (2nd report, Feb. 11, 2003)  
Los Angeles Daily News. *MRIs help chart the path of Alzheimer's disease.* (Feb. 10, 2003)  
Dallas Morning News (Feb. 14, 2003; Color Feature)  
El Mundo Salud, Spain. *VIDEOS TRIDIMENSIONALES: Capturan en imágenes el 'viaje' del Alzheimer a través del cerebro.* (Feb. 6, 2003)  
Hurriyet News, Istanbul, Turkey. *Alzheimer işte böyle yayılıyor.* (Feb. 9, 2003)  
Ultimo Segundo News, Sao Paulo, Brazil. *Nova técnica mostra expansão do mal de Alzheimer no cérebro de pacientes.* (Feb. 10, 2003)  
La Tercera, Sanitago de Chile, Chile. *Con videos de cerebro: Observan avance del Alzheimer.* (Feb. 9, 2003)  
24 Ur News, Slovenia. *Alzheimerjeva bolezen uničuje celice.* (in Slovene; Feb. 21, 2003)

Aftenposten News, Norway. *Skremmende bilder av Alzheimers herjinger*. (Feb. 6, 2003)

Moss Dagblad, ANB News, Oslo, Norway. *Ødelegger hjernen i rekordfart*. (in Norwegian; Feb. 7, 2003)

Geoscience News. *Alzheimer in lebenden Gehirnen gefilmt: Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung* (in German; Feb. 10, 2003)

ESS Finnish News (in Finnish; Feb. 6, 2003).

Rzeczpospolita News. *Jak postępuje choroba Alzheimera*. (in Polish; Feb. 10, 2003).

The Times of India. *Scans show brain cell loss in Alzheimer's*. (Feb. 6, 2003)

Corner Mix News, Croatia. *Alzheimer brzo i postojano uništava moždane stanice*. (in Serbo Croat; Feb. 12, 2003)

Presstext Austria, Austria. *Videos zeigen Alzheimer-Zerstörung in lebenden Gehirnen: Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung*. (in German; Feb. 6, 2003)

Nzoom News Service, New Zealand. *Alzheimer's brain cell loss revealed*. (Feb. 8, 2003)

Business Weekly, England. *Cambridge role in key finding on Alzheimer's*. (Feb. 10, 2003)

Ottawa Citizen, Canada. *Scans chart ravages of Alzheimer's: Tests could help doctors evaluate treatments*. (Feb. 7, 2003)

La Nacion, Argentina. *Novedoso método para evaluar el Alzheimer: Permite ver el avance de la enfermedad* (Feb. 11, 2003)

NAPS News Service, Berlin. *Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung* (in German; Feb. 10, 2003)

La Opinion. *Nueva tecnología para diagnosticar Alzheimer: Un grupo de científicos logra examinar el cerebro vivo y comprobar la destrucción que este mal produce en su tejido celular*. (in Spanish; Feb. 10, 2003)

Reuters Photo (Feb. 6, 2003)

Medscape News. *3D-Video MRI Shows Progression in Alzheimer's Disease* (Feb. 20, 2003)

Il Nuovo, Italy. *Fotografata l'avanzata dell'Alzheimer: La ricerca pubblicata su Journal of Neuroscience spiega come il morbo aggredisce e disintegra il cervello*. (Feb. 10, 2003)

Corriere Canadese, Canada. *Inarrestabile Alzheimer: La malattia, secondo gli studiosi, avanza come una colata lavica*. (in Italian; Feb. 11, 2003)

Yahoo Italia Notizie/ANSA News Service. *Salute: Risonanza Scopre Come Procede Alzheimer, Risultati Online* (Italy; Feb. 7, 2003)

Farmacia Italia. *Medicina: Alzheimer, Malattia avanza come colata lavica*. (Italy; Feb. 7, 2003)

Italia Salute. (Italy; Feb. 7, 2003)

Nethaber News. *Alzheimer ipte böyle yayılıyor*. (in Turkish; Feb. 10, 2003)

Todoancianos News. *Capturan en imágenes el viaje del Alzheimer a través del cerebro*. (in Spanish; Feb. 9, 2003)

Die Virtuelle Apotheke. *Neue Möglichkeit klinischer Versuche bei Alzheimer*. (in German; Feb. 7, 2003)

Informationsdienst Wissenschaft. *Fortschreiten der Alzheimerkrankheit erfolgreich abgebildet*. (in German; Feb. 7, 2003)

Medica Portal. *Fortschreiten der Alzheimerkrankheit erfolgreich abgebildet*. (in German; Feb. 11, 2003)

Medica Portal. *Alzheimer-Defizite auf Bild gebannt*. (2nd story; in German; Feb. 22, 2003)

Aerztliche Praxis. *Fortschreiten der Krankheit wird sichtbar gemacht: Neues Verfahren gibt Auskunft über Alzheimer-Status* (in German; Feb. 14, 2003)

The Mercury, Hobart, Australia. *Alzheimer's rapid brain cell loss*. (Feb. 6, 2003)

Alzheimer's Forum. *Alzheimer's Destruction Live*. (Feb. 10, 2003)

Alzheimer Online. *Una novedosa técnica de imágenes tridimensionales en movimiento ha permitido por primera vez captar en vivo la evolución del Alzheimer en el cerebro*. (in Spanish; Feb. 9, 2003)

Senior Journal. *Dramatic 3-D Images Show How Alzheimer's Engulfs Brain*. (Feb. 7, 2003)

Alzheimer's Daily News. *Brain Cell Loss in AD Patients*. (Feb. 7, 2003)

Advance News. *3-D Video from MRI Tracks Alzheimer's*. (Feb. 20, 2003)

Health on the Net Foundation. *New Video Technique Allows Tracking of Alzheimer's* (Feb. 6, 2003)

Health and Age. *Tracking Alzheimer's in the living brain*. (Feb. 14, 2003)

Intelihealth News. *MRI Study Shows Progress Of Alzheimer's*. (Feb. 12, 2003)  
Financial Times Newswire. *Wall Street Journal: In Alzheimer's erosion sweeps over the brain*. (Feb. 6, 2003)  
CNS News. *New Magnetic Resonance Imaging Technique Map Alzheimer's Progression*. (March 2003).  
PR Newswire (Apr. 24, 2003)  
1st Vitality (Feb. 7, 2003)  
American Health Assistance Foundation (Feb. 2003).

#### **vi. Coverage of Methamphetamine Paper, Journal of Neuroscience, June 30 2004**

The following newswires, and daily newspapers covered our *Journal of Neuroscience* report mapping brain deficits caused by methamphetamine abuse:

**Discover Magazine. Year in Science. Selected as one of the Top 100 Scientific Discoveries of the Year 2004.**  
**New York Times.** *This is Your Brain on Meth: A "Forest Fire" of Damage*. By Sandra Blakeslee. July 20, 2004.  
**USA Today** (July 21, 2004).  
Taipei Times (July 20, 2004).  
Spartanburg Herald, South Carolina (July 20, 2004).  
Toronto Star, Canada (July 24, 2004).  
Washington Blade, DC (July 23, 2004).  
Sun Herald, Mississippi (July 22, 2004).  
Arizona Central, AZ (July 22, 2004).  
Omaha World Herald (July 25, 2004).  
TV News Report (Dec. 10, 2004). Aired Dec. 10-14 on KGO-ABC (San Francisco), KGUN-ABC (Tucson, AZ), WHAS-ABC (Louisville, KY) and KAIT-ABC (Jonesboro, AR). [ScienCentral, a New York-based science news production company, produced and distributed stories on the study to ABC and NBC affiliates nationwide].

#### **vii. Coverage of HIV/AIDS Paper, Proceedings of the National Academy of Sciences, Oct. 11 2005**

Press from around the world reported Oct. 11-17 on our *PNAS* report mapping brain deficits caused by **HIV/AIDS**. This study found that AIDS selectively ravages the brain, causing 15 percent tissue loss even in seemingly healthy patients on powerful drug regimens. The imaging research is the first to pinpoint the damage inflicted by AIDS on brain regions that control movement, language and judgment. Print media covering the research included:

Ärzte Zeitung (Germany),  
El Mundo (Spain),  
Khoa Hoc Press (Vietnam),  
Le Monde (France),  
New Oriental Press (China),  
Pittsburgh Tribune Review,  
The Telegraph (London) and  
VN Express (Vietnam).

Newswire coverage included AFP (Associated Foreign Press; French, Spanish, Italian, and Portuguese), BBC News, Associated Press, City News Service, DeHavilland Information Service (U.K.), Health Day News and Ivanhoe Newswire. Radio coverage included KPCC 89.3FM, and KPBS 89.5FM (San Diego). Web coverage of various wire reports included 13wham.com, 365Gay.com, ABC.com, ACTU.Wanadoo.fr, Advocate.com, Avert.org, Azprensa.com, bol.ops-oms.org, Biz.yahoo.com, TheBodyPro.com, CapitolHillBlue.com, Cyberpresse.ca, DrKoop.com, DrudgeReport.com, E-Licco.com, ElIndependiente.com, Forbes.com, Fr.News.Yahoo.com, France2.fr, Gay.com, GayNews.it, Habersaglik.com, HealthCentral.com, Health24.com, Hetnieuwblad.com, HLN.be, Innovations-Report.com, Intramed.net, KaiserNetwork.org, KCRW.com, KGET.com, KLAS.com, KPHO.com, KRON.com, KVVU.com, Lanacio.com.ar,

La-Croix.com, Lex18.com, JoinTogether.org, Neuf.fr, News.Yahoo.com, Newswatch50.com, Nouvelobs.com, RTLNews.com, Terretorioidigital.com, TheSunlink.com, Univision.com, Voila.fr, WFIE.com, WWAY.com and Xagena.it.

“AIDS Finds Sanctuary from Drugs in Brain”

<http://www.telegraph.co.uk/news/main.jhtml?xml=/news/2005/10/11/waids11.xml&sSheet=/news/2005/10/11/ixworld.html>

“Scans Show How HIV Attacks Brain”

<http://news.bbc.co.uk/1/hi/health/4319952.stm>

“HIV Thins Regions of the Brain”

<http://www.healthday.com/view.cfm?id=528460>

“HIV Reduces Brain Tissue”

[http://www.advocate.com/news\\_detail\\_ektid21606.asp](http://www.advocate.com/news_detail_ektid21606.asp)

### **viii. Coverage of Genes/DTI/IQ paper, Journal of Neuroscience, March 2009**

Press from around the world, including the New Scientist (March 14 2009) and National Public Radio (NPR) reported on our study that mapped, for the first time, how genes affect IQ and brain fiber integrity. Britain’s *Daily Telegraph* reported the news on March 12 and an article also appeared on the Channel 4 (United Kingdom) website

“High Speed Brains are in the Genes”

<http://www.newscientist.com/article/mg20126993.300-highspeed-brains-are-in-the-genes.html>

“Inherited Genes Play a Far Greater Role in Intelligence than was Previously Thought, New Research Suggests”

<http://www.channel4.com/news/articles/society/health/intelligence+genes+theory+backed/3026007>

“People with Thicker Heads 'Are More Intelligent”

<http://www.telegraph.co.uk/scienceandtechnology/science/4977342/People-with-thicker-heads-are-more-intelligent.html>

Original - <http://www.loni.ucla.edu/~thompson/HARDI-IQ/MC-PT-GeneBrainIQ2009.pdf>

NPR – “Smart People Really Do Think Faster,” March 20, 2009

<http://www.npr.org/templates/story/story.php?storyId=102169531>

The Daily Bruin – “Genetics plays vital role in intelligence,” March 31, 2009

<http://www.dailybruin.com/index.php/article/2009/03/genetics-plays-vital-role-intelligence>

Science Daily – “More Evidence That Intelligence Is Largely Inherited: Researchers Find That Genes Determine Brain's Processing Speed,” March 18, 2009

<http://www.sciencedaily.com/releases/2009/03/090317142841.htm>

New Scientist - “High Speed Brains are in the Genes,” March 11, 2009

<http://www.newscientist.com/article/mg20126993.300-highspeed-brains-are-in-the-genes.html>

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/NSimg004.jpg>

Channel 4 News - “Inherited Genes Play a Far Greater Role in Intelligence than was previously Thought, New Research Suggests,” March 2009

<http://www.channel4.com/news/articles/society/health/intelligence+genes+theory+backed/3026007>

The Telegraph - “People with Thicker Heads 'Are More Intelligent,” March 12, 2009

<http://www.telegraph.co.uk/scienceandtechnology/science/4977342/People-with-thicker-heads-are-more-intelligent.html>

Бэгнет – “Украинские умы работают в США над созданием генетических технологий мозга,” April 9, 2009

[http://www.bagnet.org/news/summaries/one\\_day\\_of\\_planet/2009-04-09/12797](http://www.bagnet.org/news/summaries/one_day_of_planet/2009-04-09/12797)

Известия Науки – “Ученые Приблизилась К Созданию "Лекарства", Повышающего Интеллект,” March 19, 2009

<http://www.inauka.ru/news/article90738.html>

Украина криминальная – “Уровень умственных способностей человека в значительной степени определяется генами,” March 19, 2009

[http://www.cripo.com.ua/?sect\\_id=10&aid=69021](http://www.cripo.com.ua/?sect_id=10&aid=69021)

Компьюлента – “Уровень умственных способностей человека в значительной степени определяется генами,” March 19, 2009

<http://science.compulenta.ru/411348/>

Hindustan Times – “Intelligence is Largely Inherited,” March 18, 2009

<http://www.hindustantimes.com/StoryPage/StoryPage.aspx?sectionName=HomePage&id=8bf8df-d2-45ba-421a-87bb-98611afc5a6a&Headline=Intelligence+is+largely+inherited>

Yahoo India – “Intelligence is largely inherited,” March 18, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/yahooindia.html>

NetIndia123.com – “You owe your intelligence to your parents,” March 21, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/ind.html>

The Scotsman – “New scanner highlights importance of genes to intelligence,” March 12, 2009

<http://thescotsman.scotsman.com/uk/New-scanner-highlights-importance-of.5063545.jp>

El Aziz – “IQ seviyesi genlerde gizli,” March 13, 2009

<http://www.el-aziz.com/haber.php?id=535>

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/turkey1.jpg>

Tiede.fi – “Geenit säätävät järjenjuoksun,” March 20, 2009

[http://www.tiede.fi/uutiset/3525/geenit\\_saatavat\\_jarjenjuoksun](http://www.tiede.fi/uutiset/3525/geenit_saatavat_jarjenjuoksun)

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/finland.jpg>

Hirnforschung – “Intelligenz liegt in den Genen,” March 19, 2009

[http://www.focus.de/wissen/wissenschaft/mensch/hirnforschung-intelligenz-liegt-in-den-genen\\_aid\\_381723.html](http://www.focus.de/wissen/wissenschaft/mensch/hirnforschung-intelligenz-liegt-in-den-genen_aid_381723.html)

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/focusgerman.html>

Khoa học công nghệ - “Nghiên cứu mới chứng tỏ trí thông minh phần lớn là do di truyền,” March 19, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/vietnam.html>

Nacion.com – “Buena conexión entre neuronas condiciona inteligencia humana,” March 20, 2009

[http://www.nacion.com/In\\_ee/2009/marzo/20/aldea1911147.html](http://www.nacion.com/In_ee/2009/marzo/20/aldea1911147.html)

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/cr1.jpg>

Adnkronos – “Medicina: Lo Studio, Intelligenza In Gran Parte Ereditaria,” March 21, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/PRESS/it.htm>

Institute for Cognitive Science Studies – “High-Speed Brains Are in the Genes,” March 2009  
[http://www.ircss.org/fa/NewsRelease/News/Pages/20090312\\_Brain\\_Speed\\_Genetics.aspx](http://www.ircss.org/fa/NewsRelease/News/Pages/20090312_Brain_Speed_Genetics.aspx)

Additional media coverage: Times of India, The Indian, NewsTrack India, Genetic Engineering News, Eureka! Science News, Scientific Frontline, South Asian Women's Forum, HULIQ, Newswise, io9, Medgadget.com, Imperial Valley News, RedOrbit, Psychcentral.com, NewsPost Online, Sindh Today, Insciences Organization.

Additional media coverage: Times of India, Hindustan Times, The Indian, NewsTrack India, Genetic Engineering News, Eureka! Science News, Scientific Frontline, South Asian Women's Forum, HULIQ, Newswise, io9, Medgadget.com, Imperial Valley News, RedOrbit, Psychcentral.com, NewsPost Online, Sindh Today, Insciences Organization.

**ix. Coverage of “Obesity and Brain Structure” paper, Human Brain Mapping, August 2009.**

Press from around the world, including the New Scientist (August 19 2009) and Daily Mail (UK; August 19 2009) reported on our study that found that brain regions crucial for cognition are smaller in obese older people, when compared with their leaner peers, making their brains look up to 16 years older than their true age.

**x. Coverage of “Commonly Carried Variant in the Obesity Gene, *FTO*, is associated with Brain Degeneration” (PNAS paper, Ho et al., 2010)**

Press from around the world covered our research finding that a gene known to cause weight gain in more than a third of the U.S. population is linked to brain tissue loss. Coverage included reports by Reuters, Yahoo News, the Drudge Report, KABC-Channel 7, National Public Radio blog, New Scientist, London Telegraph and the Daily Mail. The research was also cited in 21 TV news segments on television stations around the country.

“Fat Gene Makes Bodies Larger, Brains Smaller”

[http://abclocal.go.com/kabc/story?section=news/health/your\\_health&id=7395021](http://abclocal.go.com/kabc/story?section=news/health/your_health&id=7395021)

“Gene Makes People Fat, Raises Alzheimer's Risk”

<http://www.nationalpost.com/life/health/story.html?id=66ffe786-e1f4-4a08-8919-9e4e1002110d>

“Fatness Gene May Thin Your Brain”

<http://www.newscientist.com/article/dn18791-fatness-gene-may-thin-your-brain.html>

“Obesity Gene Makes Bodies Larger, Brains Smaller”

[http://www.npr.org/blogs/health/2010/04/obesity\\_gene\\_makes\\_bodies\\_larg.html](http://www.npr.org/blogs/health/2010/04/obesity_gene_makes_bodies_larg.html)

**xi. Coverage of our report that Alzheimer’s risk gene, *CLU*, is associated with damage to brain wiring in young adults” (Braskie et al., May 8 2011, *Journal of Neuroscience*)**

Press from around the world (May 12 2011) covered our research finding that a particular gene carried by most people impairs the development of myelin, the protective covering around the neuron’s axons, making it more vulnerable to the onset of Alzheimer’s later in life

“Alzheimer's Damage May Begin at a Young Age, Study Finds”

<http://www.latimes.com/health/boostershots/la-heb-alzheimers-20110512,0,1944348.story>

**xii. Coverage of our ENIGMA paper (Stein et al., Nature Genetics, April 15 2012)**

### **Media Investigate New Genes Tied to Higher IQ, Bigger Brains**

Research by UCLA scientists and international colleagues mapping human genes that correlate to a bigger brain and higher IQ was covered in 28 countries, including April 15 by the [New York Times](#), [Bloomberg](#), [Live Science](#), [HealthDay News](#), a [Los Angeles Times](#) blog, [Discover](#), [Yahoo! News](#) and Israel's [Haaretz](#); April 16 by [TIME](#), Britain's [Telegraph](#), [New Scientist](#), [WebMD](#), [CBS Radio](#), [The Atlantic Wire](#), Australia's [Gizmodo](#), New Zealand's [Top News](#), [Fox News](#), the [Huffington Post](#), [News-Medical Net](#), [24 Medica](#), [Asian News International](#) and [Agence France-Presse](#); April 17 by KPCC 89.3 FM's [Madeline Brand Show](#), Iran's [Press TV](#), [NewsTrack India](#), [Agenzia Giornalistica Italia](#), and the [French Tribune](#); and April 18 by [Medscape](#) and [PsychCentral](#). Paul Thompson, professor of neurology and member of the UCLA Laboratory of Neuro Imaging at the David Geffen School of Medicine, was quoted in the coverage. The April 15 edition of *Nature Genetics* published the findings.

#### **xiii. Coverage of Sex Differences in Brain Connectivity (Dec. 10 2013)**

Wall Street Journal (Dec. 10 2013) – Paul Thompson and Neda Jahanshad quoted  
Los Angeles Times (Dec 2013)

### **III.F. EDITORIALS**

- Newsday (New York). Invited Editorial: *Violence and the Teenage Brain*, Editorial on Adolescent Brain Research. Wednesday, May 23, 2001. Reprinted in:
- The Wichita Eagle (Kansas). *Brains of Teens and Adults aren't Same*. May 26, 2001.
- St. Petersburg Times (Florida). May 28, 2001.
- The Journal Gazette (Fort Wayne, Indiana). *Brain research shows a teen-ager is not an adult*. May 28, 2001.
- Sun Sentinel (Florida). Friday, June 1, 2001.

Reprinted in: *Coursebook for the Criminal Justice Institute*, Washington State Bar Association, Sept. 2002.

### **III.G. RADIO**

- BBC World Service. Interviewed on *The World Today*. International News Program, aired in Europe and Asia. Reported on our study on genetics, brain structure and IQ (November 2001).
- BBC Radio 4. Interviewed on drivetime national news program. Reported on our study on genetics, brain structure and IQ (November 2001).
- Radio: Radio America (*Interview*, Dateline: Washington, March 9, 2000)
- KFI Talk Radio (Los Angeles, March 9, 2000).
- Osgood Files. CBS News Radio. National radio broadcast by Charles Osgood. Radio Interview on Brain Development and Language Acquisition in Childhood (Feb. 18, 2003).

On schizophrenia:

- KCSN Radio Network, Northridge, California. Interview on Brain Imaging in Schizophrenia (October 1, 2001).

On Alzheimer's Disease:

- KFI Talk Radio (News Interview; Los Angeles, February 10, 2003).
- Deutschland Radio Berlin (Germany; 10 minute Radio Interview; February 12, 2003)

### **III.H. TV INTERVIEWS & DOCUMENTARIES**

On Brain Development:

- Reuters Television and Syndicates (Europe). Television Interview on Mapping Brain Growth Patterns in Children (Aired in Europe, March 10, 2000).
- Channel One U.S. Educational Network. Television Interview on Brain Development (Aired in Schools, March 10, 2000).
- Channel 4, U.K. *Double Exposure: The Learning Brain*, Producers: Dagmar Charlton and Fiona Scott. Television Interview on Imaging Brain Development. Monday May 8, 2000; To air: May 2001.
- NDR-Hamburg Television Network, Germany. Producers: Irina Bosse. Television Interview on Brain Plasticity, MRI Scanning, and Imaging Brain Development. Monday May 15, 2000; To air: Fall 2000.
- Discovery Health Channel. *Fires of the Mind*. Producer: Steve Eder. Television Interview on Mapping and Visualizing Brain Development. Aired: May 2001.
- CNN Newsroom. Producer: Janice MacDonald. Television Interview on MRI Scanning, Brain Growth across Ages 3-15, Linguistic Development. Friday May 26, 2000; Aired: December 7-11, 2000, on CNN, CNN International News Networks. Transcript available at: [http://www.loni.ucla.edu/~thompson/MEDIA/CNN/cnn\\_nr.html](http://www.loni.ucla.edu/~thompson/MEDIA/CNN/cnn_nr.html)

On schizophrenia:

- Reuters Television and Syndicates (Europe). Television Interview on Mapping Brain Changes in Schizophrenia (Aired in Europe and 800 syndicated TV stations, October 1-8, 2001).
- Discovery Health Channel and Syndicates. Mentorn Productions, Living Pulse (London). Television Interview on Brain Mapping Advances Schizophrenia (Aired in US, Europe, India, and France, Nov.-Dec. 2002 and 2003).

On Alzheimer's Disease:

- KABC Channel 7 Television (Los Angeles). Television Interview on Mapping Brain Changes in Alzheimer's Disease (Aired February 7, 2003).
- Dr. Dean Edell, San Francisco TV Program (May 2003). Television Interview.
- NBC Channel 17 TV News (May 7, 2003). Television Interview.
  
- ABC Channel 12 TV News, Michigan (April 22, 2003). Television Interview.
  
- ScienceCentral TV Syndicates (April 29, 2003), and Ivanhoe TV Syndicates (April 18, 2003). Television Interview.
- Eyewitness News, West Virginia (April 9, 2003). Television Interview.



- Austin 8 TV News (April 14, 2003) ). Television Interview.
- WCPO 9 Cincinnati TV News (April 22, 2003). Television Interview.
- WSAW 7 Wisconsin TV News (April 22, 2003). Television Interview.
- WIS Channel 10 TV News, South Carolina (April 24, 2003). Television Interview.

Additional Media Coverage:

**New York Times**, June 13 2008. Interview on Schizophrenia Progression: Expert Q+A with Paul Thompson.

**New York Times Health Section**, Sept 13 2008. Time Lapse Maps of Brain Development.

**Harvard Magazine**, Sept.-Oct. 2008. Teen Brain Development.

Museum Exhibits:

DEA's traveling exhibit - California Science Center. Fall 2008. Highlighted our images of methamphetamine effects on brain structure. Creator: *Catie Drew, Education Coordinator, DEA Museum and Visitors Center.*

**2015**

**Russian National Academy of Sciences** – December 10, 2015; Interview with Scientific American, on the ENIGMA project. [In Russian and English].

**IV. PEER REVIEW ACTIVITIES**

**A. PEER-REVIEWER FOR:**

**Number of Papers Reviewed (1998-)\***

|  |     |
|--|-----|
| <u>Nature Neuroscience</u>                                       | 2   |
| <u>Nature Genetics</u>   | 1   |
| <u>Proceedings of the National Academy of Sciences</u>           | 2   |
| <u>Journal of Computer Assisted Tomography</u>                   | 7   |
| <u>IEEE Transactions on Medical Imaging</u>                      | >10 |
| <u>NeuroImage</u>  | >10 |
| <u>Neuron</u>  | 1   |
| <u>Journal of Neuroscience</u>                                   | 1   |
| <u>Computer Vision and Image Understanding</u>                   | 2   |
| <u>Computer Vision and Pattern Recognition</u>                   | 5   |
| <u>Medical Image Analysis</u>                                    | 3   |
| <u>Elsevier Trends in Pharmacological Science and Technology</u> | 1   |
| <u>IEEE Transactions on Biomedical Engineering</u>               | 3   |
| <u>IEEE Transactions on Visualization and Computer Graphics</u>  | 1   |
| <u>Human Brain Mapping</u>                                       | >10 |
| <u>American Journal of Psychiatry</u>                            | 1   |
| <u>Neuroreport</u>   | 1   |
| <u>Laterality</u>  | 1   |
| <u>Journal of Electronic Imaging</u>                             | 1   |
| <u>Neural Networks</u>   | 1   |
| <u>American Journal of Mental Retardation</u>                    | 1   |
| <u>Neuropsychology</u>   | 1   |

\*this list includes academic journals, and excludes IEEE engineering conferences, where it is typical to assign 6 to 10 papers to each reviewer on the Program Committee (*see under* Committee Service).

**GUEST EDITED THE FOLLOWING JOURNAL SPECIAL ISSUES**

**NeuroImage** Special Issue on Mathematics in Brain Imaging (IPAM Summer School)  
Sept. 2004  
Co-Editors: Paul Thompson, Mike Miller,  
Russ Poldrack, Tom Nichols, Tilak Ratnanather  
20 papers

**IEEE Transactions on Medical Imaging**  
Special Issue on Computational Neuroanatomy  
April 2007  
Co-Editors: James Gee and Paul Thompson  
16 papers selected; 70 reviewed

**Human Brain Mapping**  
Special Issue on Genomic Imaging  
June 2007  
Co-Editors: Paul Thompson, Tomas Paus, David Glahn  
13 papers

**NeuroImage** Special Issue on Mathematics in Brain Imaging (IPAM Summer School)  
Jan. 2009  
Co-Editors: Paul Thompson, Mike Miller,  
Russ Poldrack, Tom Nichols, Keith Worsley, Jonathan Taylor, Tilak Ratnanather  
20 papers

**IV.B.i. BOOK PROPOSAL REVIEWER FOR:**

**Springer Press, Germany**

- Reviewed Book Proposals for the Springer Press *Mathematics and Visualization* Series; included research titles on partial differential equations, differential geometry, level-sets, and computer vision approaches in medical image reconstruction and analysis.

**IV.B.ii. BOOK CONSULTANT FOR:**

**Blackbirch Press, Woodbridge, CT**

- Served as consultant and proof-reader for 4 educational textbooks, published by Blackbirch Press in 2001. The books introduce the anatomy and function of the brain, and are intended for advanced high school students in Grades 6-9. The first of the books highlights our research on brain development in children. The books are entitled:

The Physical Brain / By Faith Brynie. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-423-7. 64pp.

Perception / By Faith Brynie. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-423-7. 64pp.

Addiction / By Susan Papa, Steve Miller. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-421-0. 64pp.

Neurological disorders / By Connie Goldsmith. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN # 1-56711-422-9. 64pp.

#### **IV.C. GRANT APPLICATION REVIEWS, STUDY SECTIONS, ADVISORY PANELS:**

##### **National Library of Medicine, National Institutes of Health, 1999 Grants Program, June 21-22 1999**

- Served on Study Section and *Technical Evaluation Group* (TEG), June 21-22 1999, Bethesda, MD. Reviewed Grants for the National Library of Medicine Initiative entitled:

*The Visible Human Project: From Data to Knowledge*

##### **National Library of Medicine, National Institutes of Health, 1999 Grants Program, August 9-10 1999**

- Served on Study Section and *Technical Evaluation Special Emphasis Panel*, August 9-10 1999, Los Angeles Conference Center, CA. Reviewed Consortium Contract Grants for the National Library of Medicine Initiative entitled:

*An Advanced Imaging API for Medical Image Segmentation and Registration*

##### **Center for Scientific Review, National Institutes of Health, 1999 Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Grants Program, November 12 1999**

- Primary Reviewer, served on Study Section, November 12 1999. Governor's House Hotel, Washington DC. Reviewed for Phase II Small Business Innovation Research Program.
- Primary Reviewer, served on Study Section, August 8, 2000. Reviewed for Phase II Small Business Innovation Research Program.

##### **Alzheimer's Disease Association, 1999 Grants Program**

- Reviewed several grants for the ADA, whose proposals for 1999 focused on interventions in Alzheimer's Disease and covered both basic science and clinical research initiatives.

##### **National Institute for Child Health and Human Development (NICHD), National Institutes of Health, 2000 Grants Program, December 6-8 2000**

- Served on Study Section and Site Visit Review panel, December 6-8 2000, for a 3-day Site Visit to the Children's National Medical Center, Washington DC. Reviewed NeuroImaging Cores and Center Grant Application for the siting of a Mental Retardation Research Center (MRRC; one of four nationally) at the Children's National Hospital, Georgetown University, and George Washington University. Chair: Thomas Woolsey, M.D.; SRA: Norman Chang, Ph.D., NICHD.

##### **National Center for Research Resources (NCRR), National Institutes of Health, 2001 Grants Program, February 21-23 2001**

- Served on Study Section and Reverse Site Visit Review panel, February 21-23 2001, for a 3-day Reverse Site Visit in Washington DC. Reviewed P41 Technical Research and Development Cores and Resource Grant Application for the siting of an NCRR National Resource in Functional Neuroimaging at the Kennedy Krieger Institute (KKI) of the Johns Hopkins School of Medicine, and the Center for Imaging Science, Johns Hopkins University. Chair: Thomas Budinger, M.D., Ph.D.; SRA: Tracy Orr, Ph.D., NCRR.

##### **National Science Foundation (NSF), 2002 Grants Program, June 17-20 2002**

- Served on Study Section, June 17-20 2002, for a 2-day panel reviewing seventy-five neuroscience grants. This initiative is the first NSF program to fund cognitive neuroscience projects. Program Officer: Larry Parsons, Ph.D., NSF.

**National Institute of Mental Health (NIMH), 2002 Grants Program, July 15 2002**

- Served on Study Section, July 16-17 2002, reviewing Neuroscience Grants. Program Officer: Ben Xu, Ph.D., and Henry Haigler, Ph.D.

**National Institute of Biomedical Imaging and Bioengineering (NIBIB), 2003 Grants Program, July 21-23 2003, Bethesda, MD**

- Served on Study Section, July 21-23 2003, reviewing grants for Image Guided Interventions program at NIBIB. Program Officer: Michael Oxman, Ph.D., Chair: Warren Grundfest, M.D., Ph.D.

**Referee for Research Council of Norway, Grants Program, September 2003**

- Grant reviewer for program in Computational Mathematics and Applications, Research Council of Norway, September 2003. SRA: Gudmund Høst, Dr. Scient., Program Coordinator for Norges forskningsråd.

**Referee for Danish Technical Research Council, Denmark, Grants Program, October 2003**

- Grant reviewer for proposals submitted to the Council's "Framework" and "Engineering Research Center" programs, Danish Technical Research Council, October 2003. SRA: Ewa Beldzinski, Danish Research Agency, Danish Technical Research Council.

**Center for Scientific Review, National Institute of Allergy and Infectious Diseases/National Institutes of Health, 2004 Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Grants Program, April 27, 2004**

- Primary Reviewer, served on Study Section, Reviewed for Small Business Innovation Research Program, SRA: Kenneth Roebuck, Ph.D.

**National Center for Research Resources (NCRR), National Institutes of Health, Site Visit, June 21-23, 2007**

- Served on Study Section and Site Visit Review panel, June 21-23 2007, for a 3-day Site Visit in Boston. Reviewed P41 Technical Research and Development Cores and Resource Grant Application for the siting of an NCRR National Resource at Brigham Women's Hospital. Chair: Michael W. Vannier, M.D.

**IV.D. NATIONAL ADVISORY PANELS:**

**National Academy of Sciences, and Institute of Medicine (IoM), May 2, 2001**

- Served on Advisory Panel and Presented Research to National Academy of Sciences, Board on Children and Families, Cecil and Ida Green Building, 2001 Wisconsin Ave., N.W. Chairs: Michele Kipke, Ph.D., David Hamburg, Carnegie Foundation, and Donna E. Shalala, former Health and Human Services Secretary.

**Administration for Children, Youth & Families, Dept. of Health and Human Services (HHS), Washington DC, May 2001**

- Served as consultant on advisory panel for led by Stan Chappell, program officer at the the DHHS *Federal Youth Services Bureau*. Presented recent research, in panel discussions, on childhood brain development for policy-makers involved in the care of runaway and homeless children.

**National Institute for Alcoholism and Alcohol Abuse (NIAAA) Advisory Panel, September 9-11, 2001, Washington DC**

- Served on Advisory Panel and presented research at a special workshop and brainstorming plenary session at the National Institute of Alcoholism and Alcohol Abuse, Bethesda, MD. Chair: Allen Tannenbaum, Ph.D., Georgia Tech University, and Dr. Enoch Gordis, Director of the NIAAA, Washington, DC, **September 11, 2001.**

**Advisory Board Member, Medical Image Analysis and Display Group, Univ. of North Carolina at Chapel Hill (PI: Steve Pizer PhD, UNC Dept. Computer Science)**

- Served on Advisory Committee, 4-day visit to Univ. of North Carolina to advise the MIDAG group on their medical image analysis research program. **Sunday Nov. 7-Tuesday Nov. 9 2004.**
- Served on Advisory Committee again (2005). Advised Steve Pizer, Guido Gerig's MIDAG group at UNC on composition of their Program Project and outside collaborations. **Nov. 15, 2005.**

**Advisory Board Member for the Imaging Core, Dominantly Inherited Alzheimer Network (DIAN; PI: John Morris and Mark Mintun, Washington University), 2009-**

- Participated in advisory conference calls on the imaging component of DIAN, a large NIH-funded neuroimaging project

**Advisory Board Member for the European Alzheimer's Disease Neuroimaging Initiative (E-ADNI), 2009-**

**Advisory Board Member for the Alzheimer's Disease Neuroimaging Initiative (ADNI) Genetics Core, 2009-**

**International advisory board of the Frankfurt University Neurodegeneration Center (PI: Harald Hampel), a part of the German National Center for Neurodegenerative Diseases (DZNE), March 2011-**

**External Advisory Board Member, Mayo Clinic ADRC (PI: Ron Petersen) – meeting in Florida, Feb. 2013**

**External Advisory Board Member, Center of Cognitive Aging and Memory at the University of Florida (PI: Ron Cohen) – 2013-**

**IV.E. NATIONAL SCIENTIFIC COMMITTEE SERVICE:**

**• IEEE Program Committee (MMBIA 2000)**

*Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA)*, Hilton Head Island, South Carolina, June 11-12 2000; Workshop sponsored by the IEEE Technical Committee on Pattern Analysis and Machine Intelligence.

**• SPIE Program Committee (MMMI 2000)**

*Conference on Mathematical Methods in Biomedical Imaging*, 'Mathematical Modeling, Estimation, and Imaging', San Diego, California, July 30-August 4, 2000; Proceedings published in SPIE vol. 4121; meeting held in coordination with the Society for Industrial and Applied Mathematics (SIAM) and the SPIE 45<sup>th</sup> Annual Meeting on Optical Science and Technology.

- **IEEE Program Committee (MMBIA 2001)**

*Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA)*, Kauai Island, Hawaii, December 4-8 2001 Workshop sponsored by the IEEE Technical Committee on Pattern Analysis and Machine Intelligence.

- **IEEE Program Committee (ISCI 2002)**

*2002 IEEE International Symposium on Biomedical Imaging (ISBI): Macro to Nano*, July 7-10, Ritz Carlton Hotel, Washington, D.C. Chairs: Michael Unser PhD, EPFL, Switzerland, and Zhi-Pei Liang PhD, University of Illinois.

- **IEEE Program Committee (ICPR 2002)**

*International Conference on Pattern Recognition 2002*, Quebec City, Canada, 11-15 August 2002; Chair: Nicholas Ayache PhD, INRIA, France.

- **MICCAI 2002 Program Committee**

*Fifth International Conference on Medical Image Computing and Computer Assisted Intervention 2002 (MICCAI 2002)*, University of Tokyo, Tokyo, Japan, September 25-28, 2002; Chair: Ron Kikinis MD, Boston.

- **WBIR 2003 Program Committee**

*2nd World Congress on Brain Image Registration (WBIR 2003)*. University of Pennsylvania, Philadelphia, June 24, 2003. Chairs: Jim Gee PhD and Twan Maintz PhD.

- **MICCAI 2003 Program Committee**

*Sixth International Conference on Medical Image Computing and Computer Assisted Intervention 2003 (MICCAI 2003)*, University of Toronto, Canada, November 1-4, 2003; Chair: Nicholas Ayache PhD, INRIA, and Guido Gerig PhD, Univ. of North Carolina.

- **ICCV 2005 Program Committee**

*International Conference on Computer Vision*, Beijing, China, Oct. 2005; also served on Program Committee and reviewed papers for the Workshop on Medical Image Analysis in Radiology (MIAR; Chair: Yanxi Liu, Ph.D.) at the same meeting.

- **ISBI 2006 Program Committee**

*IEEE International Symposium on Biomedical Imaging (ISBI)*, Washington DC, April 6-9, 2006.

- **MICCAI 2006 Program Committee, and Program Committee for the Workshop on Mathematical Foundations of Computational Anatomy (MICCAI 2006)**

*9th International Conference on Medical Image Computing and Computer Assisted Intervention 2006 (MICCAI 2006)*, Copenhagen, Denmark, October 2006.

- **MICCAI 2008 Program Committee, Workshop on Mathematical Foundations of Computational Anatomy (MFCA)** – with Xavier Pennec and Sarang Joshi. New York, Sept. 2008.

- **MICCAI 2008 Program Committee, Workshop on Computational Anatomy of the Hippocampus (CAPH)** – with Paul Yushkevich and Lei Wang, New York, Sept. 2008.
- **MICCAI 2009 Program Committee, Workshop on Probabilistic Models for Medical Image Comprehension** - with Sandy Wells (Harvard/MIT), Sarang Joshi (Utah), and Kilian Pohl (IBM/MIT). London, UK, Sept. 2009; reviewer for numerous 12-page papers submitted to the meeting.
- **MICCAI 2012 Program Committee**; reviewer for around 28 12-page papers submitted to the meeting.
- **WBIR 2012 Program Committee**; reviewer for numerous papers submitted to the International Workshop on Brain Image Registration, 2012.
- **MICCAI 2013 Program Committee**; reviewer for papers submitted to the meeting.
- **MICCAI MBIA Workshop Program Committee, for 2013**; reviewer for papers submitted to the meeting (Organizer: Li Shen, Ph.D., Indiana U.).

#### **IV.F. TUTORIAL WORKSHOP ORGANIZER:**

- **Institute for Pure & Applied Mathematics, Conference Organizer, May 21-24 2001**

With 4 other UCLA faculty (Simon Cherry, Eitan Tadmor, Guillermo Sapiro, and Arthur Toga), organized a 4-day conference at UCLA at the Institute for Pure and Applied Mathematics, entitled:

*Imaging in Medicine and the Neurosciences* (May 21-24, 2001).

As part of the program, hosted a one-day NCCR-sponsored workshop, with 80 participants from around the U.S., entitled:

*Workshop on the Mathematics of Brain Mapping* (May 24, 2001). The workshop was a joint venture between the UCLA Laboratory of Neuro Imaging and the UCLA Institute for Pure and Applied Mathematics.

- **Workshop on Computational Anatomy, Conference Organizer, December 7 2001**

Organized schedules, invitations, and logistics for a one-day intensive brain imaging workshop at UCLA Laboratory of Neuroimaging Resource, with 40-50 participants from around the U.S.

- **Workshop on Deformable Models in Biomedical Imaging, Organizer, MICCAI 2002, Japan, Sept. 2002**

Organized schedules, invitations, and logistics for a half-day intensive brain imaging workshop at the MICCAI conference in Japan.

- **Workshop on Mapping Brain Degeneration, Organizer, Human Brain Mapping 2003, New York City, June 2003**

Organized schedules, invitations, and logistics for a morning course/workshop at the HBM2003 conference in New York.

- **1<sup>st</sup> IPAM Summer School on Mathematics in Brain Imaging, Conference Organizer, July 12-23 2004 (265 attendees, 2 weeks)**

Organized speakers, schedule, invitations, and logistics, and journal Special Issue, for a 2-week brain imaging workshop at UCLA Institute of Pure and Applied Mathematics, with 265 participants from around the U.S. and

overseas. Organized with Mike Miller, Ph.D., Johns Hopkins University, and Mark Green, Ph.D., IPAM Director. Planned Functional Neuroimaging week with Russ Poldrack Ph.D., Tom Nichols, Ph.D.

- **IPAM Workshop on Image Processing for Random Shapes: Applications to Brain Mapping, Geophysics, and Astrophysics" May 21-25 2007.**

Program Committee with Guillermo Sapiro, Keith Worsley, Stan Osher, Peter Jones, and others. Organized speakers, schedule, and logistics, for a 1-week mathematical imaging workshop at UCLA Institute of Pure and Applied Mathematics.

- **2<sup>nd</sup> IPAM Summer School on Mathematics in Brain Imaging, Conference Organizer, July 14-25 2008 (300 attendees, 2 weeks)**

Organized speakers, schedule, invitations, and logistics, and journal Special Issue, for a 2-week brain imaging workshop at UCLA Institute of Pure and Applied Mathematics, with 300 participants from around the U.S. and overseas. Organized with Mike Miller, Ph.D., Johns Hopkins University, and Russ Caflisch, Ph.D., IPAM Director. Planned Functional Neuroimaging week with Russ Poldrack Ph.D., Tom Nichols, Ph.D., Keith Worsley, Ph.D., and Jonathan Taylor, Ph.D. <http://www.ipam.ucla.edu/programs/mbi2008/>

#### **IV.G. UCLA COMMITTEE SERVICE:**

- **Basic Science Compensation Plan Committee, UCLA Dept. Neurology, March 2002-present**

This committee establishes rules governing the negotiation of salary, consulting income, and outside income, in the UCLA Department of Neurology.

- **Appointments and Promotions Committee, UCLA Dept. Neurology, Oct. 2004-present**
- **Neurology Dept. Representative, UC Legislative Assembly (Academic Senate), July 2004-July 2007**
- **Ad hoc Tenure Review Committee Member, Campus-Level Appointments and Promotions Committee (CAP), 2007**
- **Bridge Funds and Competitive Awards Committee, UCLA Dept. Neurology, Oct. 2007-present**
- **Epilepsy Program Director Search Committee, UCLA Dept. Neurology, 2010**
- **Neuroimaging Training Program (NITP) Executive Committee, Dec. 2010-present. (This committee helps to set all of the program goals and evaluates the fellowship applicants each year).**
- **BME PhD Program Comp/Prelim Exams Committee, 2010-present.**
- **Alzheimer's Disease Program Director Search Committee, UCLA Dept. Neurology, 2011**

- **Office of the Vice Chancellor, Grand Challenge Committee, Oct. 2012–**

Chaired by Larry Zipursky and Kelsey Martin, this committee develops a set of priorities and projects for fund-raising at the campus level.

- **UCLA Committee on Neuroscience, Dec. 2012–**

Chaired by Larry Zipursky, this committee develops a strategic vision for fund-raising in neuroscience at UCLA.



## V. TEACHING AND MENTORING:

A major educational goal has been mentoring and training students in both medical and basic science degree programs, at undergraduate, graduate, and post-M.D. levels.

### V.A. Graduate Students and Post-Doctoral Trainees Mentored 1994-2012:

| <b>Student</b>  | <b>Project(s)</b>   |
|---|---|
| <b>Post-M.D.</b>  |   |
| Sean Haney, M.D.<br>(with Tim Cloughesy MD, Jeffrey Alger PhD)                                    | A Dynamic Framework to Detect Change in Tumor Growth  |
| <b>Graduate (PhD, MD/PhD)</b>   |   |
| Katherine Narr  | Brain Mapping in Schizophrenia<br>(Neuroscience PhD Program)                                  |
| Rebecca Blanton   | Pediatric Neuroimaging and Developmental Disorders<br>(Neuroscience PhD Program)              |
| Constantine Raftopoulos<br>(Computer Science PhD Program; interim military service, to Sep. 2000) | The GL-Transform: A New Tool for Pattern Analysis in Medical Images                           |
| David Rex<br>(MD/PhD, MSTP/Neuroscience PhD Program)  | Encoding and Analyzing Stereotaxic Variation of Human Brain Function                          |
| Allan Mackenzie-Graham<br>(Neuroscience PhD Program, Rotation Student)                            | Variations in Cortical Organization with Handedness and Gender                                |
| Uma Karmarkar<br>(Neuroscience PhD Program, Rotation Student)                                     | Functional Organization of Language Cortex  |
| Suman Bhattacharya<br>(Biostatistics PhD Program)   | Bayesian Pattern Recognition for Neuroimaging Data  |
| Daniel Rubins<br>(MD/PhD, MSTP/Biomedical Physics PhD Program)                                    | A Digital Atlas of Micro-PET Data based on Scanning of Small Animals                          |
| Theo Van Erp  | Mapping Genetic Contributions to Brain Structure in Schizophrenia<br>(Psychology PhD Program) |
| Alison Clements Burggren<br>(Neuroscience PhD Program, currently Rotation Student)                | Mapping Early Brain Change in ApoE Genotyped Elderly Subjects At Risk for Alzheimer's Disease |
| Andrew Frew   | Brain Mapping in Tumor Patients: Imaging, Genetics and Therapy                                |

(Biomedical Physics PhD Program)

|   |   |
|---|---|
| Siamak Ardekani<br>(Biomedical Engineering PhD Program) | Nonlinear Registration Algorithms for Medical Image Databases   |
| Alain Pitiot  | Automated Analysis of Medical Images<br>(Exchange Student, University of Paris, and INRIA, Sophia-Antipolis, France; Engineering & Computer Science PhD Program)  |
| Christine Vidal   | Mapping Early Brain Changes in Childhood-Onset Schizophrenia<br>(Exchange Student, University of Jussieu, France; Psychology PhD Program, University of Jussieu; and UCLA Neuroengineering PhD program applicant) |
| Donna Roybal  | Mapping Longitudinal Brain Change in Those At Genetic Risk for Alzheimer's Disease<br>(2 <sup>nd</sup> Year Medical Student and AFAR Scholar – Visiting Summer Student)   |
| Allen Lu  | Biomedical Engineering Master's Student   |
| Agatha Lee  | Biomedical Engineering PhD Student  |
| Ming Chang Chiang MD                                    | Biomedical Engineering PhD Student  |
| Janet Cruz  | Biomedical Engineering PhD Student (Neuroengineering Program, Rotation Student)   |
| Lara Foland   | Neuroscience PhD Student (mentor for her NSRA award)  |
| Jon Morra   | Biomedical Engineering PhD Student  |
| Jason Stein   | Neuroscience PhD Student (mentor for his NSRA award)  |
| April Ho  | Neuroscience PhD Student (mentor for her NSF award)   |
| Neda Jahanshad  | Medical Informatics/BME PhD Student   |
| Omid Kohannim   | MSTP/Biomathematics PhD Student   |
| Yan Jin   | Biomedical Engineering PhD Student  |
| Boris Gutman  | Biomedical Engineering PhD Student  |
| Autumn Yang   | Neuroscience PhD Student  |
| Sarah Madsen  | Neuroscience PhD Student  |

**V.B. Undergraduate Students Mentored (UCLA Student Research Program and 199 Honors Thesis Program; number of publications shown, for each undergraduate student, in parentheses):**

*\*Supervised Honors Thesis*

|                               |   |
|-------------------------------|---|
| Aelia Khan (5 years)          | Quantification of 3D Neuroanatomic Variability (5)              |
| Jacob Moussai (3 years)*      | Cortical Variability and Asymmetry in Aging and Dementia (5)    |
| Shahin Zohoori (2 years)      | Abnormal Cortical Anatomy in Alzheimer's Disease (3)            |
| Joshua Mogy (1 year)*         | Hippocampal/Ventricular Anatomy in Aging and Dementia (2)       |
| Jonathan Aron (1 year)*       | Probabilistic Atlas of the Alzheimer's Brain (2)                |
| Robert Lin (1 year)*          | Quantification of 3D Neuroanatomic Variability (2)              |
| Timur Karaca, Abhishek Tiwari | Cryosection-PET Image Registration (with Mike Mega, MD PhD) (2) |
| Nancy Koras, Alvie Beday      | Corpus Callosum Structure in Dementia and in Elderly Twins (1)  |
| Adam Zaffos                   | MRI Morphometry in Twins (1)                                    |
| Jessica Coryell               | Caudate/Thalamic Anatomy in Subjects At Risk for Dementia (1)   |

|  |   |
|--|---|
| Amir Goldkorn                              | Sulcal Patterns in Dementia and Schizophrenia (5)   |
| Alain Pitiot* (Exchange Student)           | Automated Structure Identification in Medical Images (1)  |
| Chris Zoumalan* (2.5 years)                | Creating an Alzheimer's Disease Brain Atlas (with Mike Mega, MD PhD)  |
| Chris Lindshield                           | Creating an Alzheimer's Disease Brain Atlas (with Mike Mega, MD PhD)  |
| Mohamed Khaledy                            | Mapping Genetic Contributions to Brain Structure in Schizophrenia   |
| Elizabeth Kwong (Visiting Medical Student) | Population-Based Average Hippocampal Models in Mild Cognitive Impairment and Alzheimer's Disease (with Mike Mega, MD PhD)   |
| Michael Hong*                              | Mapping Longitudinal Brain Changes in Alzheimer's Disease   |
| David Gravano                              | Mapping Longitudinal Brain Changes in Alzheimer's Disease   |
| David Herman*                              | Mapping Longitudinal Brain Changes in Alzheimer's Disease   |
| Sue Han                                    | Mapping Longitudinal Gray Matter Changes in Alzheimer's Disease   |
| Victor Gabrielian                          | Mapping Brain Change in Childhood-Onset Schizophrenia   |
| Anil Nair                                  | Mapping Brain Change in Childhood-Onset Schizophrenia   |
| Lauren McLemore                            | Childhood Schizophrenia, 2 quarters, 2002   |
| Snehal Shah                                | Childhood Schizophrenia   |
| Sasan Sani                                 | Childhood Schizophrenia   |
| Andrew Ren                                 | Childhood Schizophrenia   |
| Nayoung Lee                                | Johns Hopkins REU Scholar 2002: Drug Addiction Research   |
| Yihong Sui                                 | UC LEADS Scholar 2002: Autism and Childhood Schizophrenia Research;<br>UC Award for Top UC Student, Presented in Sacramento |
| Yasaman Alagband                           | MRI in Williams Syndrome (with Becca Dutton); <b>Two 199 Honors Theses</b>  |
| Nazanin Izadpanah                          | Planum Temporale in Autism; <b>199 Honors Thesis</b>  |
| Ben Tseng                                  | Longitudinal Parametric MRI in Glioblastoma (with Andy Frew)  |
| Jessica Lee                                | MRI in methamphetamine users (with Kira Hayashi)  |
| Sharon Lee                                 | Mapping Brain Change in HIV/AIDS and<br>Mapping Cerebellar Change in Williams Syndrome; <b>Two 199 Honors Theses</b>        |
| Marina Barysheva                           | MRI in methamphetamine users (with Kira Hayashi)  |
| Andrew DeGiorgio                           | Mapping Alzheimer's disease and gene effects on the brain (with Sarah Madsen, Christina Avedissian), 2008                   |
| Ivan Pandoy                                | Mapping Alzheimer's disease effects on the Basal Ganglia. <b>199 Honors Thesis</b> , 2008.                                  |
| Suh Lee                                    | Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2007-2008   |
| Amit Friedman                              | Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-   |
| Daria Merkuriev                            | Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-   |
| Sarah Loeb (Harvey Mudd)                   | Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-   |

## V.B.II Neuroengineering Summer Program

**As member of the Neuroengineering faculty, hosted and mentored students enrolled in the UCLA Summer Intern Program (Director: Allan Tobin, Ph.D., and Alan Paul, Ph.D., UCLA Brain Research Institute) and UC LEADS Scholars Program (Director: Richard Weiss, Ph.D.):**

## 2001

|   |  |  |
|---|--|--|
| Leslie Lusk                               | Univ. of Pennsylvania                    | Neuroengineering Summer Intern, 2001<br>(8-week visit; return research visit, March 5 to 7, 2003)  |
| Del Leistritz<br>(8-week visit). Project: | University of Tulsa, OK<br>Computational | Neuroengineering Summer Intern, 2001<br><br>Approaches for the Detection<br>of Alzheimer's Disease |

## 2002

|             |                              |   |
|-------------|------------------------------|---|
| Nayoung Lee | Johns Hopkins University     | Neuroengineering Summer Intern, 2002<br>(8-week visit). Project: Hippocampal Mapping in<br>Methamphetamine Abusers  |
| Yihong Sui  | UCLA Biochemical Engineering | UC LEADS Program Scholar, 2002<br>(8-week visit). Project: Medial Temporal Maps in<br>Childhood-Onset Schizophrenia |

## V.B.III Visiting Investigators Mentored

|  |  |   |
|--|--|---|
| Paul Rasser, M.Sc.                                     | Visiting Research Fellow,<br>University of Adelaide        | 1-Year Internship, 2001: Imaging in<br>Schizophrenia, Jan.-Dec. 2001<br>Exchange Grant with U. Sydney (Dr. Philip Ward)       |
| Nitin Gogtay, M.D.                                     | Visiting Investigator, NIMH                                | Summer Internship, 2001: Imaging in Childhood-<br>Onset Schizophrenia, June 25-August 8, 2001                                 |
| Chris I. Zoumalan                                      | Medical Student, Univ. Wisconsin                           | Summer Internship, 2001: Mapping the Medial<br>Cortex in Alzheimer's Disease  |
| Wil McClay, M.Sc.                                      | Engineering Student, Tulane Univ.                          | Summer Internship, 2001: Cortical Surface<br>Parameterization   |
| Christian Gaser, Ph.D.                                 | Postdoc, Univ. of Jena, Germany                            | 3 week visit, April 2003; deformation<br>Morphometry; 2 <sup>nd</sup> 3 week visit April-May 2004; 2<br>week visit March 2005 |
| Manish Dalwani<br>Univ. of Texas, San Antonio          | Graduate Student in Psychiatry<br>in bipolar adults        | 2 week visit, August 2003; cortical mapping   |
| Francesca Sabattoli<br>in Alzheimer's disease, and FTD | Graduate Student in Mathematics<br>Univ. of Brescia, Italy | Two 2-3 month visits, 2004; cortical and<br>hippocampal mapping   |
| Ginny Ng MD,   | Institute of Psychiatry, London                            | 1 week visit, April 2005; cortical maps in twins  |

Gareth Barker PhD

Wil McClay, Ph.D.      Postdoc, Livermore Labs (LLNL)      Joint postdoc working on image registration, starting April 2005; co-mentor on his LLNL grant

Facundo Memoli      PhD student, U. Minnesota      Postdoc working on level set methods, 2 day visit, April 2005

Julie Price, Ph.D.      Assoc. Prof., U. Pittsburgh      K award recipient, working on PET-MRI  
Correlation in Alzheimer's disease  
3 day visit, Oct. 24-26 2007  
1 day visit, Dec 8 2008

Budha Kh.      Research Assistant      Tensor-based morphometry to  
National Brain Research Centre map brain degeneration  
Manipur, India      (with Neel Parikshak)  
3 day visit, March 2008

Iman Aganj      PhD student, U. Minnesota      Cortical thickness algorithm development  
(with Neel Parikshak)  
3 day visit, March 2008

Naama Bernea-Goraly      Postdoc, Stanford      RO3 award recipient, learning cortical complexity methods  
2 day visit, July 17-18 2008 (with Lara Foland, Sarah Madsen)

Elizabeth Walter      Postdoc, Stanford      RO3 award recipient, learning cortical complexity method  
2 day visit, July 17-18 2008 (with Lara Foland, Sarah Madsen)

Marlon Quinones      Asst Prof, UT San Antonio      NARSAD recipient, learning cortical mapping methods to study inflammatory effects in bipolar illness  
2 week visit, July 14-25 2008 (with Lara Foland, Sarah Madsen)

Cyrus Raji      MD/PhD student, U. Pittsburgh      To learn tensor based morphometry methods  
(PIs: Jim Becker, Oscar Lopez)      for use in the Cardiovascular Health Study  
3 week visit, August 1-22 2008 (with April Ho)  
Repeat visit: March 30 2009 (with April Ho)

Miguel Burgaleta      PhD student, U. Madrid      To learn DTI analysis methods to correlate  
Spain      fiber integrity and cognition in a large database  
Aug 1-Dec 1 2008 (with Marina Barysheva, Agatha Lee)

Anouk den Braber      PhD student, Frei University,      To learn DTI analysis methods for examining  
Amsterdam, Netherlands      Obsessive Compulsive Disorder (with Jason Stein, Agatha Lee, Marina Barysheva)

|   |   |  |
|---|---|--|
| Alex Chavez<br>Child Psychiatry Branch<br>(PIs: Judy Rapoport MD,<br>Nitin Gogtay MD)                                   | Research Assistant, NIMH<br>for measuring brain growth rates (with Suh Lee) | To learn longitudinal brain mapping methods<br>(with Suh Lee)  |
| Roberto Colom<br>University of Madrid, Spain  | Professor of Neurology  | Feb-Sept. 2009 (9 month visit)   |
| Andrey Finegersh<br>Mapping and analysis methods; with Christina<br>Avedissian). Analyzed epilepsy MRI data.            | RA for Bill Theodore (NINDS)  | April 1-3 2009 (visited to learn hippocampal<br>mapping and analysis methods; with Christina<br>Avedissian). Analyzed epilepsy MRI data. |
| David Tate PhD<br>Jared Price<br>Dan McCaffrey<br>Jeff Dewey<br>Troy Russell  | Tufts University  | April 26 2009 (4 day visit)<br>Visit of their lab to our group to learn<br>Tensor-based morphometry (with Suh Lee)                       |
| Smeer Salam<br>Pakistan   | Medical student from<br>King Edward Medical Univ.                           | 3 month visit to learn our methods to map<br>brain changes in HIV (Summer 2009)  |
| Julio Villalon MD<br>Anatomy; large scale testing of Riemannian<br>Registration code on twins).                         | MS student from Colombia  | June 1 2009- (automated analysis of ventricular<br>Anatomy; large scale testing of Riemannian<br>Registration code on twins).            |
| Gabriella Blokland<br>(3 month visit)   | Univ. Queensland, QIMR  | July 1 2009- Analysis of fMRI data in twins.   |
| Yannis Paloyelis<br>Visit to learn anatomical modeling;<br>Caudate mapping in ADHD<br>(with Priya Saharan, Jason Stein) | King's College London   | August 1-15 2009 (2 week visit)  |
| Reva Stidd  | NIMH Child Psych., Bethesda   | Oct 19 2010- 1-week visit to work on<br>brain development (with Suh Lee, Xue Hua).   |
| James Cole  | King's College, London  | Nov. 10-17 2009; visit to learn surface<br>modeling<br>(1 week visit; with Priya Saharan, Sarah Madsen).                                 |
| Paul Rasser   | Univ. Newcastle, Australia  | Dec 1-10 2009-Visit to learn our TBM<br>Methods (with Suh Lee, Derrek Hibar).  |
| Ron Hazelton MD<br>injury analyses  | Brisbane, Australia   | Jan 4 2011; 1-day visit to plan traumatic brain<br>injury analyses   |
| Tim Ehlkes  | Univ. Newcastle, Australia  | Jan 30-Feb 12 2011 -Visit to learn our DTI   |

|  |                               |   |
|--|-------------------------------|---|
|  |                               | Methods (with Julio Villalon, Marina Barysheva, Talia Nir; visit funded by NHMRC).  |
| Victor Valcour MD<br>Carmela Tartaglia MD<br>Pom Sailasuta PhD | UCSF<br>CalTech               | Apr 1 2011 -Visit to plan HIV projects<br><br>(with Neda Jahanshad, Talia Nir, 1-day visit/talks).                                  |
| Ben Sinclair<br>Connectivity analyses                          | QIMR, Brisbane                | May 20 2011; 1-day visit to plan Functional   |
| Jeff Looi MD   | ANU, Canberra                 | May 31-June 4 2011 -Visit to learn our Methods (with Priya Rajagopalan, Sarah Madsen, visit funded by NHMRC).                       |
| Cyrus Raji MD PhD  | UPMC, Pittsburgh<br>2011(with | September 28, 2011 - October 3rd,<br><br>Christina Boyle, Omid Kohannim, Priya Rajagopalan); planning cardiovascular health studies |

**V.B.IV. Mentoring of Assistant Professors on K01 Grants (Mentored Research Scientist Development Awards)**

Served as K01 award Mentor/Advisor for:

|                       |   |   |
|-----------------------|---|---|
| Todd Lencz, Ph.D.     | Assistant Professor of Psychiatry<br>Albert Einstein College of Medicine<br>and Hillside Hospital, New York | NIMH Mentored Research Scientist Award<br>2001-2002 |
| Liana Apostolova MD   | Assistant Professor of Neurology  | UCLA; Beeson Award; Primary Mentor                  |
| Carrie Bearden PhD    | Assistant Professor of Psychiatry   | UCLA; Co-Mentor                                     |
| Yaling Yang PhD       | Assistant Researcher, Psychiatry  | UCLA; Primary Mentor (K99/R00 award)                |
| Emily Dennis PhD      | Asst. Prof., now at Univ. of Utah   | USC: Primary Mentor (K99/R00 award)                 |
| Sook-Lei Liew PhD     | Asst. Prof., Neurorehabilitation  | USC; Primary Mentor (K award)                       |
| Hannah (Shan) Luo PhD | Asst. Prof., CHLA   | USC; Primary Mentor (K award)                       |

**V.C. CLASS TEACHING:**

**I. M132 Structure & Function of the Nervous System:**

- Prepared and gave introductory lectures on structural and functional neuroanatomy; prepared quizzes, review sessions; graded midterms, finals and term papers; also helped students with private tutoring.

## **II. Biostatistics 230: Statistical Graphics (Fall 1999):**

- Lecturing to advanced PhD students in Biostatistics; introduced students to the major types of mathematics and statistics used in neuroimaging, brain mapping, and medical image analysis; discussed major research challenges in brain imaging; gave software demonstrations of major software packages used to analyze brain images.

## **III. Anatomy Workshops, UCLA Lab of Neuro Imaging (Quarterly, 1994-99):**

- Recruited, supervised and trained students in neuroanatomy, and in mathematical and computational techniques for image analysis. Supervised individual projects graduate and undergraduate projects on brain mapping, cryosection, MR, PET and histologic image processing and statistical analyses of neuroimaging data. Please see attached letters from students.

## **IV. Teaching the Mathematics of Neuroimaging through Animation (Educational Videos; Summer 1999-)**

- Created a series of educational video sequences, teaching the mathematical and technical approaches used in neuroimaging through the use of graphics and animation. Video segments are designed to introduce neuroimaging concepts to lay audiences and students at a high school/early undergraduate level. This animation series will be expanded in the coming years, supported by grant funding from the National Center for Research Resources (NCRR; joint work with John Bacheller, Rico Magsipoc, and Arthur Toga).

## **V. Functional Neuroimaging Class M285**

- Guest lectured for Mark Cohen and Russ Poldrack's graduate class on functional neuroimaging (2-hour lecture). November 23, 2004. Topic: Brain Image Registration and Brain Atlases in Neuroimaging.

## **V.D. UCLA SEMINAR TEACHING:**

### **University of California Los Angeles, Department of Mathematics**

*Mathematical/Computational Strategies for Mapping the Human Brain*, Invited Speaker, UCLA Mathematics Seminar Series, Host: Prof. Tony Chan, Chair, UCLA Dept. Mathematics, **November 20, 1997.**

### **University of California Los Angeles, Department of Statistics**

*Encoding Structural and Functional Information in Human Brain Image Databases*, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Ker-Chau Li, UCLA Dept. of Statistics, **February 27, 1997.**

### **University of California Los Angeles, Dept. of Biomathematics**

*Detection and Quantification of Anatomic Abnormalities using a Probabilistic Atlas of the Human Brain*, Invited Speaker, UCLA Seminars in Biomathematics, Host: Carol Newton, M.D., Ph.D., UCLA Dept. of Biomathematics, **April 4, 1996.**

### **University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology**

*Pathology Detection using a Probabilistic Reference System for the Human Brain*, Invited Speaker, UCLA Human Brain Mapping Seminars, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 11, 1998.**

### **University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology**

*Detection and Mapping of Abnormal Brain Structure in Development and Disease using Neuroimaging*, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **April 22, 1998.**



**University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology**

*Challenges in Population-Based Brain Mapping: Dynamic, Disease-Specific and Probabilistic Brain Atlases*, Invited Speaker, UCLA Human Brain Mapping Seminars, Ahmanson-Lovelace Brain Mapping Center, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 10, 1999.**

**Veteran's Administration (VA) Hospital, West Los Angeles, CA**

*Challenges in Population-Based Brain Mapping*, Invited Speaker, Hosts: Eric Cheng, M.D., Chief Resident, and Claude Wasterlain, M.D., UCLA Dept. of Neurology and VA Medical Center, **October 1, 1999.**

**University of California Los Angeles, Department of Statistics**

*Mathematical and Statistical Challenges in Population-Based Brain Imaging*, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Rick Schoenberg, UCLA Dept. of Statistics, **February 1, 2000.**

**University of California Los Angeles, Department of Biostatistics**

*Mathematical and Statistical Challenges in Brain Mapping*, Invited Speaker, UCLA Seminars in Biostatistics, Hosts: Prof. Dorota Dabrowska, UCLA Dept. of Biostatistics, **February 9, 2000.**

**University of California Los Angeles, Crump Institute for Molecular Imaging (CIMI), Department of Medical and Molecular Pharmacology**

*An Introduction to Current Challenges in Brain Mapping*, Invited Speaker, Seminars in Imaging and Instrumentation, Host: Prof. Simon Cherry, Associate Director, Crump Institute for Molecular Imaging, 3:00PM, **November 29, 2000.**

**University of California Los Angeles, Institute for Pure and Applied Mathematics**

*Mathematical Challenges in Population-Based Brain Mapping*, Invited Speaker and Session Chair, Workshop on Mathematics and Modeling in Brain Mapping, Conference on Imaging in Medicine and Neurosciences, May 21-25 2001, UCLA Institute for Pure and Applied Mathematics, Hosts: Eitan Tadmor PhD, Stan Osher PhD, and Tony Chan PhD, **May 24, 2001.**

**University of California Los Angeles, Institute for Pure and Applied Mathematics**

*Brain Image Analysis: Recent Advances and Current Mathematical/Computational Challenges*, Invited Speaker, Workshop on Scientific Data Mining (SDM2002), January 14-18 2002, UCLA Institute for Pure and Applied Mathematics, Hosts: Chandrika Kamath PhD, Lawrence Livermore Labs., and Padhraic Smyth PhD, UC Irvine, **January 15, 2002.**

**University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology**

*Brain Imaging in Diseased Populations: Recent Advances and Future Promise*, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **January 23, 2002.**

**UCLA/Los Angeles Psychiatric Institute (LAPSI), Sawtelle Blvd., Los Angeles, CA**

*The Child and Adolescent Brain: What Neuroimaging Reveals About Development*, Guest Speaker, Host: Regina Pally, PhD, UCLA Neuropsychiatric Institute, 8:00 PM – 9:00 PM, CME Accredited Course, **February 25, 2002.**

**UCLA Life Course Development Seminar, Los Angeles, CA**

*Brain Mapping in Development, Dementia, and Schizophrenia*, Guest Speaker, joint with Tyrone Cannon PhD, Professor and Chair, UCLA Psychology. Hosts: Neal Halfon PhD, Dept. Pediatrics, Patricia Greenfield PhD, UCLA Psychology, and Lenny Rome PhD, Dean of Research, UCLA School of Medicine; UCLA Faculty Center, 12 noon to 2PM, **November 21, 2002.**

**UCLA Psychosis Seminar, Dept. Psychology, Los Angeles, CA**

*New Brain Imaging Strategies for Studying Schizophrenia: Mapping Dynamic, Genetic, and Drug Effects*, Guest Speaker. Host: Keith Nuechterlein PhD, Neuropsychiatric Institute, UCLA School of Medicine; 10 to 11AM, **December 6, 2002.**

**UCLA Brain Matters Seminar, Dept. Neurology, Los Angeles, CA**

*Brain Imaging in Alzheimer’s Disease, Schizophrenia, and Development: New Advances and Challenges*, Guest Speaker. Host: Catarina de Carvalho, Dept. Neurology, UCLA School of Medicine; Oldendorf Room, 4 to 5PM, **February 10, 2003.**

**IPAM Program on Research in Industrial Projects for Students (RIPS), Dept. Mathematics, Los Angeles, CA**

*Mathematics and Brain Mapping*, Guest Speaker to Summer School Students. Host: Mark Green, Dept. Mathematics, IPAM Conference Room. **August 22, 2003.**

**UCLA Neuropsychiatric Institute Grand Rounds, Los Angeles, CA**

*Mapping Brain Changes in Alzheimer’s Disease, Schizophrenia and Development, Mini-Series on Geriatric Psychiatry*, Host: Anand Kumar MD, UCLA NPI, **April 6 2004.**

**VI. UNIVERSITY/DEPARTMENTAL SERVICE**

**VI.A. ACADEMIC COMMITTEE SERVICE, 1999- (served on 90+ PhD committees)**

**I. PhD Advisory Committee and Dissertation Committee Service (please also see Section III).**

| <b>Student</b>   | <b>Degree Department</b> | <b>Project(s)</b>   |
|--|--------------------------|---|
| 1. Katherine Narr<br><b>Oral PhD Exam: November 30, 1999</b> | PhD                      | <b>Neuroscience</b> Brain Mapping in Schizophrenia<br><br><b>Midstream: June 7 2001</b><br><b>Final Defense: 2002</b>   |
| 2. Rebecca Blanton   | PhD                      | <b>Neuroscience</b> Pediatric Neuroimaging & Developmental Disorders<br><b>Oral PhD Exam: April 10, 2000</b><br><b>Midstream: Jul 12 2001</b><br><b>Final Exam: Nov 21 2003</b>                                       |
| 3. Daniel Rubins   | PhD                      | <b>Biomedical Physics</b> Brain Mapping with Positron Emission Tomography<br><b>Oral PhD Exam: August 11, 2000</b><br><b>Defense: May 27 2003</b>   |
| 4. Alison Burggren   | PhD                      | <b>Neuroscience</b> Early Detection of Alzheimer’s Disease using Functional Imaging and ApoE Genotyping<br><b>Oral PhD Exam: July 31, 2001</b><br><b>Midstream Exam: Dec 16 2002</b><br><b>Final Exam: Dec 1 2003</b> |

|  |        |                            |   |
|--|--------|----------------------------|---|
| 5. Andrew Janke  | PhD    | <b>*Biomedical Physics</b> | <b>External Thesis Examiner</b><br><b>PhD Completed: January 2003.</b><br><b>*University of Queensland, Australia</b>                           |
| 6. Allan Mackenzie-Graham  | PhD    | <b>Neuroscience</b>        | Atlases of the Mouse Brain<br><b>Oral PhD Exam: Apr 29, 2003</b><br><b>Midstream Exam: Oct 3 2005</b><br><b>Defense Exam: March 24 2006</b>     |
| 7. Alain Pitiot<br><b>Final Defense: Nov 26 2003</b><br><b>(in France)</b><br><b>Co-Chair with Nicholas Ayache</b> | PhD    | <b>Computer Science</b>    | Brain Image Segmentation  |
| 8. Haihong Zhuang  | PhD    | <b>Biomedical Eng.</b>     | Brain Image Segmentation<br><b>Defense: Oct 11 2006</b>   |
| 9. Yuan Xu<br><b>Prospectus Exam: Nov 20 2003</b><br><b>Final Defense: Feb 25 2008</b>                             | PhD    | <b>Biomedical Eng.</b>     | Hippocampal Shape Analysis  |
| 10. Janelle Taylor<br><br><b>Oral PhD Exam: Feb 12 2004</b>  | PhD    | <b>Neuroscience</b>        | Language Systems in Autism,<br>Childhood Onset Schizophrenia and<br>Epilepsy  |
| 11. David Rex  | MD/PhD | <b>Neuroscience</b>        | Brain Image Analysis Pipelines<br><b>Oral PhD Exam: March 16 2004</b><br><b>Midstream Exam: May 18 2004</b><br><b>Defense Exam: July 2 2004</b> |
| 12. Meredith Braskie   | PhD    | <b>Neuroscience</b>        | Brain Mapping in ApoE Subjects<br><b>Oral PhD Exam: Apr 12 2004</b><br><b>Midstream Exam: Oct 27 2005</b><br><b>Defense Exam: Oct 9 2006</b>    |
| 13. Andy Frew  | PhD    | <b>Biomedical Physics</b>  | Brain Mapping in Tumor Patients<br><b>Oral PhD Exam: May 4 2004</b><br><b>Final Defense: Nov 14 2005</b>  |
| 14. Mark Moelich   | PhD    | <b>Mathematics</b>         | Automated Target Tracking<br><b>Final Defense: May 11 2004</b>  |
| 15. Triet Le   | PhD    | <b>Mathematics</b>         | BMO Functions in Image Analysis<br><b>Oral PhD Exam: June 9 2004</b><br><b>Defense Waived: May 2006</b><br><b>PhD Received: June 5 2006</b>     |
| 16. Siamak Ardekani  | PhD    | <b>Biomedical Physics</b>  | Atlases of DTI and Parametric MRI<br><b>Oral PhD Exam: 2004</b>   |

**Defense Exam: Nov. 2 2005**

|                          |     |                               |  |
|--------------------------|-----|-------------------------------|--|
| 17. Hillary Protas       | PhD | <b>Biomathematics</b>         | Cortical Maps of Amyloid using PET<br><b>Oral PhD Exam: July 27 2004</b><br><b>Defense Exam: Jan 22 2010</b>   |
| 18. Terrance Williams    | PhD | <b>Psychology</b>             | Schizophrenia and ERPs<br><b>Oral PhD Exam: August 26 2004</b><br><b>Defense Exam: June 4 2007</b>             |
| 19. Linh Lieu            | PhD | <b>Mathematics</b>            | K-Functionals for Image Denoising<br><b>Oral PhD Exam: Sept. 14 2004</b><br><b>Final Defense: May 22 2006</b>  |
| 20. Libby O'Hare         | PhD | <b>Neuroscience</b>           | Brain Mapping and the Cerebellum<br><b>Oral PhD Exam: Dec. 20 2004</b><br><b>Final Defense: May 7 2008</b>     |
| 21. Fred Park            | PhD | <b>Mathematics</b>            | Image Restoration via Total Variation,<br>Inpainting, and Texture Removal<br><b>Oral PhD Exam: Oct. 7 2005</b> |
| 22. Erh-Fang Lee         | PhD | <b>Neuroscience</b>           | Brain Atlas of the C57BL6 Mouse<br><b>Oral PhD Exam: Oct. 21 2005</b><br><b>Defense: July 12 2007</b>          |
| 23. Jennifer Ogren       | PhD | <b>Neurobiology</b>           | Brain Mapping in Epilepsy<br><b>Oral PhD Exam: Oct. 31 2005</b><br><b>Defense: May 27 2008</b>                 |
| 24. Xue Hua              | PhD | <b>Neuroscience</b>           | Tensor Morphometry in Autism<br><b>Oral PhD Exam: Mar 6 2006</b><br><b>Defense: Nov 10 2008</b>                |
| 25. Ming Chang Chiang MD | PhD | <b>Biomedical Eng.</b>        | Fluid Morphometry and DTI<br><b>Oral PhD Exam: Aug 17 2006</b><br><b>Final Defense: Jan 14 2008.</b>           |
| 26. Ronald Lok Ming Lui  | PhD | <b>Mathematics</b>            | Surface Modeling in Brain Mapping<br><b>Oral PhD Exam: Sep 6 2006</b><br><b>Defense: May 28 2008</b>           |
| 27. Igor Yanovsky        | PhD | <b>Mathematics</b>            | Nonlinear Image Registration<br><b>Defense: April 8 2008</b>   |
| 28. Caroline Brun        | PhD | <b>Biomedical<br/>Physics</b> | Riemannian Tensor Morphometry<br><b>Oral PhD Exam: Dec 12 2006</b><br><b>Defense: May 15 2009</b>              |
| 29. Bin Dong             | PhD | <b>Mathematics</b>            | Spherical Wavelet Transforms   |

/Split Bregman Method

**Oral PhD Exam: Dec 12 2006**

**Defense: April 7 2009**

30. Agatha Lee PhD

**Biomedical  
Engineering**

Deformation Morphometry and DTI to  
Map Gene Effects on Brain

**Oral PhD Exam: Dec 13 2006**

**Defense: Nov 18 2009**

31. Lara Foland PhD

**Neuroscience**

fMRI and MRI in Bipolar Illness

**Oral PhD Exam: Dec 15 2006**

**Midstream Exam: Feb 25 2009**

**Defense: Dec 17 2010**

32. Tin Man Lee PhD

**Biomedical Physics**

Diffusion Tensor Image Analysis

**Oral PhD Exam: March 16 2007**

**Defense: April 16 2008**

33. Ilhwan Jo PhD

**Mathematics**

Tracking Axons in Confocal  
Microscopy

**Oral PhD Exam: March 16 2007**

34. Jason (Ginmo) Chung PhD

**Mathematics**

Atlas-Guided Chan-Vese MRI  
GM/WM Segmentation

**Defense: April 19 2007**

35. Hussain Tameem PhD

**Biomedical  
Engineering**

Radiological Image Segmentation

**Oral PhD Exam: May 15 2007**

**PhD Passed: May 2008**

(Defense Waived)

36. Shishir Dube PhD

**Biomedical  
Engineering**

Medical Image Segmentation

**Oral PhD Exam: June 15 2007**

(Defense Waived)

37. Yunho Kim PhD  
HARDI Denoising by Integrating over  
the Sobolev Exponent

**Mathematics**

Sobolev Space Denoising and

**Oral PhD Exam: Sept 25 2007**

**Defense Exam: May 11 2009**

38. Tungyou Lin PhD

**Mathematics**

Variational Image Matching

**Oral PhD Exam: Jan 24 2008**

**Defense: May 20 2010**

39. Tom Goldstein PhD

**Mathematics**

Compressed sensing for MRI

**Oral PhD Exam: May 29 2008**

**Defense: May 18 2010**

40. Wenhua Gao PhD

**Mathematics**

Shape Modeling in MRI

**Oral PhD Exam: Aug 19 2008**

**Defense: April 6 2011.**

|                          |     |                               |  |
|--------------------------|-----|-------------------------------|--|
| 41. Jon Morra            | PhD | <b>Biomedical Engineering</b> | Automated Hippocampal Segmentation using Adaboost methods<br><b>Oral PhD Exam: Aug 21 2008</b>                 |
| 42. Todd Tishler         | PhD | <b>Neuroscience</b>           | Mapping Brain Iron Content in Aging<br><b>PhD Defense Exam: Oct. 16 2008</b>                                   |
| 43. Liang Zhan           | PhD | <b>Biomedical Engineering</b> | HARDI (High-Angular Resolution Diffusion Imaging) Analysis<br><b>Oral PhD Exam: Sep 8 2008</b>                 |
| 44. Neda Jahanshad       | PhD | <b>Biomedical Engineering</b> | Genetics of DTI<br><b>Oral PhD Exam: Jan 2012</b><br><b>Defense: May 23 2012</b>                               |
| 45. Mark Roden           | PhD | <b>Biomedical Engineering</b> | Medical Image Analysis<br><b>Oral PhD Exam: Nov. 19 2009</b>   |
| 46. Pamela Douglas       | PhD | <b>Biomedical Engineering</b> | Manganese & Machine Learning<br><b>Defense: Sept 16 2010</b>   |
| 47. Bruce (Cheng-Li) Liu | PhD | <b>Biomedical Engineering</b> | Medical Image Segmentation<br><b>Oral PhD Exam: May 28 2009</b><br><b>Defense: May 25 2011.</b>                |
| 48. Rongjie Lai          | PhD | <b>Mathematics</b>            | Hippocampal Shape Modeling<br><b>Oral PhD Exam: July 30 2009</b><br><b>Defense: May 28 2010</b>                |
| 49. Alvin Tsz Wai Wong   | PhD | <b>Mathematics</b>            | Modeling Surface Geometry<br><b>Oral PhD Exam: July 30 2009</b><br><b>Defense: May 24 2011</b>                 |
| 50. Vishal Patel         | PhD | <b>MD/PhD</b>                 | HARDI and DTI<br><b>Oral PhD Exam: Oct 15 2009</b><br><b>Defense: May 2 2011</b>                               |
| 51. Laurel Martin-Harris | PhD | <b>Neuroscience</b>           | Amyloid PET ligands, cortical thickness and ApoE4<br><b>Oral PhD Exam: May 24 2010</b>                         |
| 52. Wenye Ma             | PhD | <b>Mathematics</b>            | Removing Illumination with Split Bregman Method<br><b>ATC Exam: Nov 4 2009</b><br><b>Defense: April 8 2011</b> |

|   |        |                        |  |
|---|--------|------------------------|--|
| 53. Juan Eugenio Iglesias   | PhD    | <b>Biomedical Eng.</b> | Multimodality Image Statistics<br>ATC Exam: Jan. 13 2010<br>Defense: May 25 2011   |
| 54. Naomi Santa Maria   | PhD    | <b>Neuroscience</b>    | Imaging Brain Trauma<br>ATC Exam: Jan 22 2010<br>Defense: Jan 26 2012              |
| 55. Nataliya Portman  | PhD    | <b>*Mathematics</b>    | <b>Pattern Theoretic Modelling<br/>of Biological Growth</b><br>Defense: Dec 7 2009 |
| <b>*University of Waterloo;<br/>External Thesis Examiner</b>  |        |                        |  |
| 56. Alvina Goh<br>*Johns Hopkins University;<br>External Thesis Examiner<br>Defense: March 30 2010.   | PhD    | <b>*Computer Sci.</b>  | <b>Riemannian analysis of HARDI</b>  |
| 57. John Colby<br>ATC Exam: July 26 2010<br>Defense: March 23 2012                                    | MD/PhD | <b>Biomed Eng.</b>     | <b>DTI in Children</b>   |
| 58. Carl Lederman<br>ATC Exam: March 10 2010<br>Defense: July 12 2011                                 | PhD    | <b>Mathematics</b>     | <b>Labeling Brain Structures in MRI</b>  |
| 59. Jason Stein<br>ATC Exam: Jan 6 2010<br>Midstream Exam: Feb 1 2011<br>Eiduson Lecture: May 17 2011 | PhD    | <b>Neuroscience</b>    | <b>Imaging Genetics and vGWAS</b><br><br>Defense: May 24 2011                      |
| 60. April Ho<br>ATC Exam: Jan 7 2010<br>Defense: Sept 7 2010<br>(2.9 years for PhD)                   | PhD    | <b>Neuroscience</b>    | <b>Obesity, Exercise &amp; the Brain</b>   |
| 61. Vishal Patel<br>ATC Exam: Spring 2010<br>Midstream Exam: Summer 2010<br>Defense: May 2 2011       | MD/PhD | <b>Biomedical Eng.</b> | <b>HARDI and Diffusion Imaging</b>   |
| 62. Rami Mohieddine<br><br>ATC Exam: Sept 7 2010  | PhD    | <b>Mathematics</b>     | <b>Level Set Computations with Open<br/>Curves</b>                                 |
| 63. Evan Lutkenhoff<br>ATC Exam: Sept 27 2010<br>Defense: May 16 2011                                 | PhD    | <b>Neuroscience</b>    | <b>GWAS in Schizophrenia</b>   |

|  |               |                     |  |
|--|---------------|---------------------|--|
| <b>64. Jeff Rudie</b><br>ATC Exam: Dec 1 2010<br>Midstream Exam: Nov 29 2011<br>Defense: May 30 2012 | <b>MD/PhD</b> | <b>Neuroscience</b> | <b>Brain Connectivity in Autism</b>  |
| <b>65. Omid Kohannim</b><br>ATC Exam: March 8 2011   | <b>PhD</b>    | <b>BME</b>          | <b>Multi-SNP Genomics and Diagnosis</b><br><br><b>Defense: May 29 2012</b> |
| <b>66. Jesse Brown</b><br>ATC Exam: March 10 2011  | <b>PhD</b>    | <b>Neuroscience</b> | <b>Mapping Brain Connectivity</b>  |
| <b>67. Nathan Hageman</b><br>Defense: May 24 2011  | <b>MD/PhD</b> | <b>Neuroscience</b> | <b>Tractography and DTI</b>  |
| <b>68. Angie Morales</b><br>ATC Exam: Aug 2 2011   | <b>PhD</b>    | <b>Neuroscience</b> | <b>Methamphetamine &amp; the brain</b>                                     |
| <b>69. Florence Roussotte</b><br>Defense: Sep 9 2011   | <b>PhD</b>    | <b>Neuroscience</b> | <b>Fetal Alcohol Syndrome</b>  |
| <b>70. Yan Jin</b><br>ATC Exam: Sep 12 2011  | <b>PhD</b>    | <b>Biomed. Eng.</b> | <b>Clustering Tracts in DTI</b>  |
| <b>71. Madelaine Daianu</b><br>ATC Exam: Oct 2011  | <b>PhD</b>    | <b>BME</b>          | <b>Diffusion MRI in Mice and Humans</b>                                    |
| <b>72. Melissa Tong</b><br>distorted by Turbulence<br>ATC Exam: Sep 14 2011<br>Defense: Nov 14 2012  | <b>PhD</b>    | <b>Mathematics</b>  | <b>Denoising HARDI and Videos</b>  |
| <b>73. Meghan Meyer</b><br>ATC Exam: Feb 29 2012   | <b>PhD</b>    | <b>Psychology</b>   | <b>Social Cognitive Neuroscience</b>                                       |
| <b>74. Nic Novak</b><br>Left PhD Program to create Start-Up<br>Company in New York                   | <b>PhD</b>    | <b>Neuroscience</b> | <b>Genomic Analysis of Images</b>  |
| <b>75. Jonathan Brown</b><br>Metallo-Organic Frameworks<br>ATC: Oct 2012                             | <b>PhD</b>    | <b>Chemistry</b>    | <b>Synthetic Chemistry of MOFs:</b>  |
| <b>76. Sarah Madsen</b><br>ATC: Nov 14 2012  | <b>PhD</b>    | <b>Neuroscience</b> | <b>Thyroid hormone and the Aging Brain</b>                                 |
| <b>77. Leo Moore</b><br>ATC: Spring 2013   | <b>PhD</b>    | <b>Neuroscience</b> | <b>TMS Interventions in Psychiatry</b>                                     |
| <b>78. Boris Gutman</b><br>ATC: April 2013, UCLA   | <b>PhD</b>    | <b>BME</b>          | <b>Computational Anatomy</b>   |



|  |            |                         |  |
|--|------------|-------------------------|--|
| <b>79. Hayden Schaeffer</b><br>ATC: May 21 2013                  | <b>PhD</b> | <b>Mathematics</b>      | <b>Mathematical Image Analysis</b>   |
| <b>80. Benjamin Wade</b><br>ATC: March 2016, UCLA                | <b>PhD</b> | <b>BME</b>              | <b>Shape Analysis in HIV/AIDS</b>  |
| <b>81. Brandy Riedel</b><br>ATC: Feb. 2016, USC; PhD 2018        | <b>PhD</b> | <b>Neuroscience</b>     | <b>Alzheimer Genetics</b>  |
| <b>82. Greg Fleishman</b><br>ATC: March 2016, UCLA               | <b>PhD</b> | <b>BME</b>              | <b>Imaging Alzheimer's over Time</b>   |
| <b>83. Julio Villalon</b><br>ATC: Jan. 2018, USC                 | <b>PhD</b> | <b>BME</b>              | <b>Diffusion MRI of the Brain</b>  |
| <b>84. Talia Nir</b><br>ATC: 2017, USC, PhD defense: 2019        | <b>PhD</b> | <b>Neuroscience</b>     | <b>Brain Imaging in HIV/AIDS</b>   |
| <b>85. Daniel Rinker</b><br>ATC: Nov 2016, USC                   | <b>PhD</b> | <b>Neuroscience</b>     | <b>Imaging &amp; Genetics of MS</b><br><br><b>Defense: Nov. 2017, USC</b>                            |
| <b>86. Chris Ching</b><br><br>ATC: 2017, UCLA; PhD defense: 2019 | <b>PhD</b> | <b>Neuroscience</b>     | <b>Computational Anatomy in bipolar disorder and 22q deletion syndrome</b>                           |
| <b>87. Leanna Hernandez</b><br>Defense: June 1, 2018             | <b>PhD</b> | <b>Neuroscience</b>     | <b>Imaging Genetics in Autism</b>  |
| <b>88. Amy Lin</b><br><b>Syndrome</b><br><b>ATC: June 8 2018</b> | <b>PhD</b> | <b>Neuroscience</b>     | <b>Imaging and Genetics in 22q Deletion</b>  |
| <b>89. Artemis Zavaliangos-Petropulu</b>                         |            | <b>PhD Neuroscience</b> | <b>Neuroimaging in Stroke and Dementia</b><br><b>ATC passed: August 2019</b><br><b>Defense: 2021</b> |
| <b>90. Daniel Moyer</b><br>PhD Defense: August 23 2019           | <b>PhD</b> | <b>Computer Sci.</b>    | <b>Algorithms for Diffusion MRI</b>  |
| <b>91. Samantha Betts</b>  | <b>PhD</b> | <b>Neuroscience</b>     | <b>PhD in progress; T32 received, 2019</b>   |
| <b>92. Mark Shiroishi</b>  | <b>PhD</b> | <b>Epidemiology</b>     | <b>PhD in progress</b>   |
| <b>93. Clio Gonzales-Zacarias</b>                                | <b>PhD</b> | <b>Neuroscience</b>     | <b>PhD in progress</b>   |
| <b>94. Meral Tubi</b>  | <b>PhD</b> | <b>Neuroscience</b>     | <b>PhD in progress</b>   |
| <b>95. Dimitris Stripelis</b>                                    | <b>PhD</b> | <b>Computer Sci.</b>    | <b>PhD in progress</b>   |

**96. Hamza Saleem                      PhD                      Computer Sci.                      PhD in progress**

**NON-UCLA/NON-USC:**

1. Leonid Teverovski                      PhD                      **Computer Science**                      Nonlinear Image Registration  
**Oral Qual Exam: Oct 4 2006**  
(Carnegie Mellon University, Pittsburgh, PA; Chair: Yanxi Liu, PhD; Teleconference)
  2. Xavier Pennec                      **Habilitation**                      **Statistics**                      Lie Groups for Tensor Modeling  
**Habilitation Defense: Dec 18 2006**  
(INRIA-Asclepios Team, Sophia-Antipolis, France; Chair: Nicholas Ayache, with Guido Gerig, Sir Michael Brady; Videoconference)
  3. Nataliya Portman                      PhD                      **Mathematics**                      External Thesis Examiner, Dec 2009.  
**Thesis: Shape Diffeomorphisms  
for Modeling Brain Growth**  
**As Chair of Master's Thesis Committee:**
- Allen Lu                      M.S.                      **Biomedical Engineering (June 2006)**  
Meena Mani                      M.S.                      **Statistics (January 2007)**  
Liana Apostolova MD                      M.S.                      **Clinical Research (2009)**

**VI.B. OTHER UNIVERSITY RECRUITMENT AND ORGANIZING COMMITTEES**

**Curriculum Committee, UCLA Inter-Departmental Graduate Program in Neuroscience, 1998**

- Reviewed proposals for new classes and seminars for the UCLA Inter-Departmental Neuroscience PhD program; discussed student evaluations and proposed alterations to the core and elective Neuroscience curriculum; presented individual students' petitions for curriculum changes to the committee; supported requests for new electives on behalf of individual students.

**Interview Committee for:**

**Chief of Service Position, Olive View and Faculty Appointment, UCLA Neurology, February 1999**

**Neuro-Oncology Fellowship, and Faculty Appointment, UCLA Neurology, November 2000**

**Associate Professor in Neurosurgery for Olive View, and Faculty Appointment, UCLA Neurology, November 2000**

**Interview Committee for Admissions to the UCLA Neuroscience PhD Program:**

- **March 1999**
  - **February 2000**
  - **March 2000**
  - **February 2002**
  - **February 2004**
  - **February 2007**

- February 2011

**Interview Committee for Admissions to the UCLA Neuroengineering PhD Program:**

- March 2003
- March 2004
- February 2005

**Interview Committee for the UCLA Medical Scientist Training Program (MSTP):**

- October 27 2005
- April 21 2006 (recruitment/placement day; interviewed candidates who had been offered places at UCLA)
- April 19 2007 (recruitment/placement day; interviewed candidates who had been offered places at UCLA)

**Interview Committee for UCLA Neurology Residency:**

- Nov. 2011

**Interview Committee for UCLA Psychiatry Residency:**

- Nov. 30 2011

**Host and Neurology Guided Tour Organizer, Congressional Staff Visit to the UCLA Medical Center, April 9, 1999**

- Hosted visit of Sen. Barbara Boxer, Rep. Jerry Lewis' Congressional Staff to UCLA Medical Center, with video and imaging demonstrations at the *UCLA Laboratory of Neuro Imaging*

**L.A. County High Schools Program,**

**Visit of L.A. County High Schools to UCLA Research Laboratories, Saturday March 13, 1999**

- (With Arthur Toga) Co-hosted visit of 50 high school students and their science teachers to learn about neuroimaging and Brain Mapping at UCLA

**Visit of U.S. High Schools to UCLA and Drew Medical Centers, Friday June 30, 2000**

- (With Arthur Toga) Co-hosted visit of 50 high school students from around the U.S. to learn about brain mapping and medical research at UCLA

**Beverly Hills Unified School District (BHUSD) 'Gifted and Talented Education' (GATE) Program, Friday February 15, 2002**

- Hosted visit of 51 6<sup>th</sup> to 8<sup>th</sup> Grade school students from the L.A. area to learn about science and medical research at UCLA. Organized with Stacy Ingber, Ph.D., Jefferson Institute, Los Angeles.

**National Youth Leadership Forum**

**July 10, 2002**

- Hosted visit of 45 high school students from California to learn about medical research at UCLA.

**Steering Committee, UCLA Life Science Informatics (LSI) Program, Summer 1999**

**Search Committee, Epilepsy Program Director, Dept. Neurology, 2011**

**Search Committee, Alzheimer's Disease Research Center Program Director, Dept. Neurology, 2012**

.....

## VII. RESEARCH FUNDING FROM PRIVATE AND FEDERAL AGENCIES

### PAST EXTRAMURAL GRANTS 1993-2011 (now completed):

#### 1. Howard Hughes Medical Institute, Bethesda, MD 1994-1999

Project: *Mathematical/Computational Strategies for Mapping the Human Brain*

Principal Investigator: Paul Thompson

Amount: \$146,000 over 5 years

#### 2. United States Information Agency, Washington DC, 1993-1998

Project: *Mathematical/Computational Strategies for Analyzing 3D Human Brain Image Databases*

Principal Investigator: Paul Thompson

USIA Grant No. G-1-00001

#### 3. Fulbright Scholar, United States-United Kingdom Fulbright Commission, London, 1993-1998

Project: *Interdisciplinary Ph.D. Program in Neuroscience, UCLA*

Principal Investigator: Paul Thompson

#### 4. Co-Investigator, National Institute for Neurological Disorders and Stroke (NINDS/NIMH R01 NS38753) 09/30/1998-08/31/2001

Project: *Modeling Brain Morphology in 4D*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

Amount: \$476,631

#### 5. Co-Investigator, National Science Foundation, Biological Instrumentation and Resources (BIR9322434) 1/1/94-1/1/99

Project: *Adaptive Algorithms for A Deformable Brain*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

#### 6. Co-Investigator, International Consortium for Brain Mapping, Human Brain Project Grant 9/1/1993-8/31/1998

Project: *A Probabilistic Reference System for the Human Brain (Years 1-5).*

Role: Co-Investigator; Principal Investigators: John Mazziotta MD PhD, Arthur Toga PhD

#### 7. Co-Investigator, International Consortium for Brain Mapping, Human Brain Project Grant 7/1/1998-6/30/2003 [Renewal of #6] (P20 MH/DA52176)

Project: *A Probabilistic Reference System for the Human Brain (Years 6-10).*

Role: Co-Investigator; Principal Investigators: John Mazziotta MD PhD, Arthur Toga PhD

Amount: \$1,100,000

#### 8. Co-Investigator, National Center for Research Resources (NCRR) Grant (RR05956) 9/1/1994-9/1/1998

Project: *Quantitative Transformations of Digital Brain*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

#### 9. Co-Investigator, National Institute of Aging (NIA) Grant 07/01/1999-06/30/2000

Project: *Multi-Site Evaluation of Hippocampal Atrophy in Patients with Minimal Cognitive Impairment and Alzheimer's Disease*

Role: Co-Investigator; Principal Investigator: Jeffrey Cummings MD, Director, UCLA Alzheimer's Disease Center; Co-Investigators: Michael Mega MD PhD, Gary W. Small MD.

Amount: \$100,000 for one year

**10. Co-Investigator, NARSAD Distinguished Investigator Grant 07/01/2000-06/30/2001**

Project: *A Probabilistic Approach to the Study of Brain Structure in Psychiatric Disorders*

Principal Investigator: John Mazziotta MD PhD, Director, UCLA Brain Mapping Division

Role: Co-Investigator; Co-Investigators: Tyrone Cannon PhD, Arthur Toga PhD.

Amount: \$100,000 for one year

**11. Principal Investigator, NIMH Intramural Service Contract (PI: Thompson, P.)**

**02/21/2001-02/20/2002**

Project: *"Analysis of Longitudinal Brain Imaging Data in Childhood Onset Schizophrenia"*

This contract supports the analysis of brain images from children and adolescents with schizophrenia, with the goal of detecting disease-specific patterns of brain change and mapping rates of cortical tissue loss across multi-year time spans. Amount: \$30,000 Annually

**12. Co-Investigator, P41 Resource Grant 1998-2002 (RR13642)**

Project: *Multidimensional Brain Modeling and Mapping: A Neuroimaging Resource*

Principal Investigator: Arthur Toga PhD

Amount: \$630,357 (ANNUAL)

**13. Principal Investigator, UCLA Component (PI: Paul Thompson)**

**National Institute of Mental Health**

**(R01) 07/01/1999-06/30/2004**

**Project:** *Neuroimaging in First Episode Schizophrenia*

Principal Investigators: Robert Bilder PhD, Nathan Kline Institute, New York, NY;

Paul Thompson PhD, UCLA Component

Amount: \$293,564 over 5 years

**14. Principal Investigator, Core Project 1, National Programs of Excellence in Biomedical Computing (NPEBC) Computational Biology Grant 01/01/2002-12/31/2004**

Project: *Computational Biology from Genotype to Phenotype*

Co-Investigators: Arthur W. Toga PhD, Tony Chan PhD, Stan Osher PhD, Chris Lee PhD, Dan Valentino PhD

Amount: \$100,000 annual directs, for Core Project 1

**15. Co-Investigator, National Institute of Mental Health (NIMH PAS-99-060) Grant 10/01/1999-09/30/2004**

Project: *Mouse Brain Atlas for Functional Genomics:*

*A Multimodal Multidimensional (4D) Map of the Mouse Brain*

Principal Investigator: Arthur Toga PhD

**16. Co-Investigator, National Institute of Aging (NIA) RO1 Grant 07/01/2000-06/30/2005**

Competitive Renewal of Grant R01-AG13308

Project: *Functional MRI for Early Diagnosis of Alzheimer's Disease*

Principal Investigator: Gary Small MD, UCLA Neuropsychiatric Institute

Co-Investigator: Susan Bookheimer PhD, UCLA Brain Mapping Division

**17. Consultant/Collaborator, National Institute of Mental Health (P01) 1999-2004**

**Project:** *The Aging Brain: Vasculature, Ischemia, and Behavior*

Competitive Renewal of Program Project P01-AG12435

Principal Investigators: Helena Chui MD, University of Southern California (USC), and

Michael Weiner MD, VA Medical Center, University of California at San Francisco (UCSF).

**18. Co-Investigator, National Institute of Aging (NIA) Grant 12/01/2000-11/30/2005**

Project: *Toward a Multi-Modality Atlas of the Alzheimer's Brain*

Principal Investigator: Michael Mega MD PhD,

Co-Investigators: Jeffrey Cummings MD, Director, UCLA Alzheimer's Disease Center; Arthur Toga, PhD

Amount: \$1,908,229 over 5 years (\$250,000 annual direct costs)

**19. Co-Investigator, General Clinical Research Center (NCRR) Grant 10/01/2000-09/30/2005**

Project: *General Clinical Research Center: Brain Imaging Core*

Principal Investigators: Gerald S. Levey, Provost & Dean, UCLA School of Medicine, and Isidro B. Salusky, Program Director, UCLA Pediatrics

Co-Investigators: Arthur W. Toga PhD, John Mazziotta MD PhD, Roger P. Woods MD

Amount: \$4,541,759 over 5 years (\$804,234 annual direct costs)

**20. Co-Principal Investigator, R21 Neuroimaging Technology Grant 09/2002-8/2005**

Project: *Analyzing Functional & Structural MRI in FAS (Fetal Alcohol Syndrome) Children*

Co-Investigators:

Elizabeth Sowell PhD, Arthur Toga PhD, Ed Riley PhD, Susan Bookheimer PhD

Amount: \$300,000

**21. Chief Investigator, National Health and Medical Research Council (NHMRC, Australia) Grant 2003-2005**

Project: Brain imaging studies of auditory processing dysfunction in schizophrenia

Chief Investigators:

Ulrich Schall MD PhD, Centre for Mental Health Studies, University of Newcastle, Callaghan, NSW, Australia

Philip Ward PhD, Schizophrenia Research Unit, and Associate Professor of Psychiatry, University of New South Wales, Sydney, Australia

Pat Michie PhD, Depts. of Psychology and of Psychiatry and Behavioural Science, University of Western Australia

Paul Thompson PhD

NH&MRC Project Grant ID 252480; 2003: \$107,500; 2004: \$125,000 2005: \$125,000

(funded; no financial support permitted on Australian source grant; now ended)

**22. Principal Investigator, NIBIB R21 EB001561 Neuroimaging Technology Grant 05/01/2003-02/28/2006**

Project: *Algorithms to Detect Disease and Genetic Effects on the Brain*

Co-Investigators:

Tyrone Cannon PhD, Arthur Toga PhD; Consultants: Jay Giedd MD, Judith Rapoport MD

Amount: \$454,000; \$100,000 annual direct costs for 3 years

This project developed novel mathematics and computational algorithms for detecting genetic and disease effects on human brain structure.

**23. Principal Investigator, NCRR R21 RR019771 Neuroimaging Technology Grant 09/30/03-09/29/05 (1-year NCTE ended Sept. 2006)**

Project: *Novel PDEs for Cortical Mapping and Analysis in Disease*

Co-Investigators:

Guillermo Sapiro PhD, Arthur Toga PhD

Amount: \$323,450; \$125,000 annual direct costs for 2 years

This project developed a powerful computational framework to map disease effects on the brain. Creating a new direction in the field of computational anatomy, we built on revolutionary advances in the field of partial differential equations (PDEs) that allow geometric and statistical manipulation of surfaces.

**24. Principal Investigator of Core Project 1, P41 Resource Grant 08/01/2002-07/31/2007**

Project: *Computational Anatomy and Multidimensional Modeling: A Neuroimaging Resource*  
Principal Investigator: Arthur Toga PhD  
Amount: \$728,846 (Annual direct costs; \$100K annual directs for Thompson Core Project 1)

This proposal improved upon prior atlases and maps of brain that assumed a static morphology and prohibited the examination of time varying changes, and developed the framework and tools to rigorously evaluate dynamic changes in brain structure and function focusing particularly on processes such as development, aging and the progression of specific diseases.

**25. Principal Investigator, R01 Component Project (Image Analysis Subcontract) within the ADNI (Alzheimer's Disease Neuroimaging Initiative)**

09/30/04-09/29/06 (will have 2-year NCTE)

Overall PI: Mike Weiner, UCSF

Amount: \$100,000 annual direct costs (Thompson portion only)

**26. Co-Investigator (10% time), National Library of Medicine (NLM)/National Institutes of Health Grant 2001-2006**

Project: *A Multidimensional Alzheimer's Disease Brain Atlas*

Principal Investigator: Arthur Toga PhD

Amount: \$237,500 (ANNUAL)

**27. Co-Investigator (10% time), NIBIB Human Brain Project Grant P01 EB001955 07/04/03 - 06/30/08**

Project: A Probabilistic Reference System for the Human Brain (Years 11-15)

Principal Investigator: John Mazziotta MD PhD

Amount: \$857,814 (ANNUAL)

**28. Co-Investigator, NIH R21 MH075944 Grant 7/1/06 – 6/30/08**

Project: Mapping Brain Structure to Function in Bipolar Disorder.

PI: Lori Altshuler MD

Amount: Awarded, NARSAD Distinguished Investigator's award, April 2006.

**29. Principal Investigator, R01 Component Project (Project 1) of the UCLA Alzheimer's Disease Research Center (ADRC) Grant 2004-2009**

Project: *4D Brain Mapping in Alzheimer's Disease and Those At Risk*

Co-Investigators:

George Bartzokis MD, Arthur Toga PhD

Amount: \$125,000 annual directs for 5 years

**RECENT GRANTS (2011-; this is a partial list; see NIH Biosketch for more):**

**AS PRINCIPAL INVESTIGATOR:**

**1. Principal Investigator, R01 Neuroimaging Technology Grant NIH/NIBIB 2007-2012**

Project: *Computational Anatomy of High Field MRI/DTI*

Co-Investigators:

Guillermo Sapiro PhD, Arthur Toga PhD, Kamil Ugurbil PhD, Kelvin Lim MD

Amount: \$250K/yr for 5 years – AWARDED, June 2006 [score: 113, Percentile: top 0.7%].

This project significantly extends the power of MRI and diffusion tensor imaging (DTI) at ultra-high magnetic field strengths (7T) to resolve previously unseen features of brain structure and fiber properties, providing unique power to investigate disease.

**2. Principal Investigator, R01 EB008432 NIH/NIBIB 07/01/09-06/30/13**  
Project: **HARDI Mapping of Disease Effects on the Brain**

Annual Direct Costs: \$611,181

This project develops tools that unleash the full power of HARDI (high-angular resolution diffusion imaging) to advance clinical studies of the brain. HARDI applies magnetic field gradients to the brain in up to 256 different directions to precisely detail the directions, pathways, and integrity of fibers and their connections. We will evaluate HARDI for understanding and revealing new descriptors of Alzheimer's Disease and HIV-related brain white matter degeneration - with immediate value for drug trials and patient monitoring in HIV, which affects 40 million people worldwide, and in AD, which affects 4.5 million individuals in the U.S. alone.

**3. Principal Investigator, R01 HD050735 NICHD/NIMH - UCLA Subcontract 2007-2012**

Project: **Genetic influences on the brain: A twin imaging study**

Collaboration with: Margie Wright PhD, U. Queensland, Australia

Amount: \$1,700,000 over 5 years (Thompson component only) – Direct Costs \$200K in Yrs 1-3, \$250 in Yr 4, \$300K in Yr 5 – AWARDED, June 2006 [score: 100, Percentile: top 0.4%]. Start Date: April 1 2007.

The long-term objective of this application is to characterize the differential roles of genes and environment in shaping brain structure and function, to map and identify the genes involved, and to characterize the impact of brain relevant genetic polymorphisms.

**4. Principal Investigator, National Library of Medicine (NLM)/NIH Grant 09/05/07-07/31/11**  
R01 EB008281

Project: **A Multidimensional Alzheimer's Disease Brain Atlas**

Co-Investigators:

Arthur Toga PhD, George Bartzokis MD, Gary Small MD, Liana Apostolova MD

Amount: \$250,000 annually for 5 years (**active**; score: 121, 4<sup>th</sup> percentile; competing continuation)

**5. Principal Investigator, UCLA Subcontract in GO Grant "Amyloid Imaging, VMCI, and Analysis for ADNI".**  
ARRA/Stimulus Grant. 09/30/2009-09/29/2011

Amount: \$687,270 to be spent over 2 years, ending 09/29/2011

**6. Principal Investigator, R01 Component Project (Project 1) of the UCLA Center for Computational Biology**  
U54 RR021813. 09/24/04-07/31/10

**Brain Mapping in HIV/AIDS**

**7. Co-Principal Investigator, P41 RR013642 (Toga) 08/01/07-07/31/12 NIH/NCRR \$726,835 annually**  
**Computational Anatomy and Multidimensional Modeling**

The goal of this competitive renewal application is to go beyond current atlases and maps of brain that assume a static morphology and prohibit the examination of time varying changes. We will continue to develop the framework and tools to rigorously evaluate dynamic changes in brain structure and function focusing particularly on processes such as development, aging and the progression of specific diseases.

**8. Principal Investigator (UCLA subcontract),**

Project Title: **Predictors of Alzheimer's Disease in Mild Cognitive Impairment**

NIH RO1 Grant, U. Pittsburgh (Oscar Lopez, PI)



Amount: 2% salary and 50% SRA support (active)

**Project Dates:** 12/01/07-11/30/2011

**Funds - Initial Period:** \$42,903 (Total Cost);

**Entire Period:** \$179,491 (Total Cost)

**Application #:** 2 R01 AG020098-06 (active, award notice: June 6 2007).

**9. Co-Investigator (5% time), NINDS Epilepsy Program Project Grant, P01 NS002808-44A1 12/01/05-11/30/10**

Project: A Clinical Research Program for the Partial Epilepsies

Principal Investigator: Pete Engel MD PhD

Amount: \$999,808 annual

**10. Co-Investigator (1.5% time), NIBIB Swedish Twin Grant, 2R01MH052857-10 07/01/2005-06/30/2010**

Project: Neural Phenotypes for Schizophrenia and Bipolar Disorder (**Swedish Twin Grant**)

Principal Investigator: Tyrone Cannon PhD

Amount: \$517,000 annual, for 5 years

**11. Co-Investigator (Core C Co-Leader with Henry Huang; Project 3 Co-Leader with Susan Bookheimer; 10% time in Imaging Core and MRI Analysis RO1 Component Project), NIA Aging and Dementia Program Project Grant, PO1 AG025831-01**

Project: Amyloid Plaque and Tangle Imaging in Aging and Dementia (Program Project)

Principal Investigator: Gary Small MD

Amount: TBA

**12. Co-Investigator (8% time), NIDA RO1**

Project: **1R01DA020726-01 Neural Systems and Inhibitory Control.**

PI: Edythe London PhD

Amount: \$16,857 Direct Costs & the corresponding Indirect Costs.

**13. Co-Investigator (10% effort and 80% SRA support), NIH Grant R01 MH075007 12/01/06 - 05/30/11**

PI: Nelson Freimer MD PhD

Bipolar Endophenotypes in Population Isolates

Amount: \$461,168/year.

**14. Co-Investigator, NIH R01 Grant 2007-**

Project: *MPPF, FDDNP and fMRI Imaging in Alzheimer's Disease.*

PI: Susan Bookheimer PhD

Amount: active

**15. Co-Investigator, Australian Research Council (ARC, Australia) Grant 2005, SR0566756**

Project: Application for funding to develop a software grid for data-sharing associated with the NISAD/LONI Virtual Brain Bank - The University of Newcastle

Chief Investigators: Dr FA Henskens, Dr PJ Johnston, Mr P Rasser, A/Prof PB Ward, A/Prof U Schall, Prof PT Michie, Prof V Carr, Dr PM Thompson

(now funded; no financial support permitted on Australian source grant)

**16. Co-Investigator, NSF-IRES Collaboration on Medical Imaging – UCLA School of Medicine and INRIA (Sophia-Antipolis). Proposal number 6503749**

Principal Investigator: Victor Vianu, UC San Diego; Co-Investigator: Nicholas Ayache PhD, INRIA Sophia-Antipolis, France

Project: Brain-Atlas Associated Team (INRIA/UCLA)

Amount: no direct support; supports regular international exchange visits to graduate students and postdocs (awarded)

## **GRANTS PENDING, 2011-:**

### **1. Principal Investigator (UCLA subcontract)**

Project: Bipolar Imaging Grant, UTHSCSA (Jair Soares, PI)

Amount: TBA (2% salary and 50% SRA support, pending, final revision submitted March 2006)

### **2. Principal Investigator (UCLA subcontract)**

Project: HIV/AIDS NIH Grant, U. Pittsburgh (Jim Becker, PI)

Amount: 2% salary and 50% SRA support (pending, revision submitted Sept. 2006)

### **3. Co-Investigator, NIH Training Grant 2006-**

PI: Nelson Freimer MD PhD

Amount: active

### **4. Co-Investigator, NIDA 1<sup>st</sup> RO1 Grant 2006-**

Project: *Cognitive Behavioral Therapy: Cortical Function, Emotion & Methamphetamine Abuse*

PI: Edythe London PhD

Amount: TBA (pending, submitted March 2006)

### **5. Co-Investigator, NIDA 2<sup>nd</sup> RO1 Grant 2006-**

Project: *Impulsivity and Modafenil*

PI: Edythe London PhD

Amount: 10% salary, 30% support for SRA II (pending, will be funded)

### **6. Co-Investigator, NIDA P20 Center Grant 2006-**

Project: *Methamphetamine Program Project*

PI: Edythe London PhD

Amount: TBA (pending)

### **7. Co-Investigator, RO1**

Project: *Autism Grant*

PI: Jennifer Levitt MD

Amount: no salary support, no % effort

### **8. Associate Investigator, NISAD (Australia) Medical Research Grant**

Project: *A Large-Scale Imaging Database for Schizophrenia Studies*

Principal Investigator: Philip Ward PhD, Associate Professor of Psychiatry, University of New South Wales, Sydney, Australia, and Scientific Director, Neuroscience Institute of Schizophrenia and Allied Disorders (NISAD), New South Wales, Australia

Co-Investigator: Professor Pat Michie, Depts. of Psychology and of Psychiatry and Behavioural Science, University of Western Australia

Amount: TBA (pending)

### **9. Associate Investigator, NHMRC (Australia) Medical Research Grant**

Project: *Development of Sensitive Psychobiological Measures of Incipient Alzheimer's Disease*

Principal Investigator: Dr Brona O'Dowd

Co-Investigators: Dr Greig de Zubicaray, Dr Jonathan Chalk, Dr Stephen Rose, Dr Deming Wang

Amount: \$331,299 spread over 3 years (pending)

**10. Co-Investigator (CI), NHMRC (Australia) Medical Research Grant**

Application ID 510276

Ward, P.B., Coltheart, M., Thompson, P.M.

Project Grant: Fractionating mismatch negativity deficits in schizophrenia and dyslexia using ERPs, fMRI and cortical surface matching.

2008: \$198,744 2009:\$168,500, 2010:\$136,750.

(no support, as US funding not allowed from Australian grant)

**SERVICE AS CONSULTANT ON GRANTS:**

**Steve DeKosky/Jim Becker (PI), U. Pittsburgh**

NIA PO1: U. Pittsburgh Alzheimer's Disease Center

Amount: \$38,000, active

**Chris Johnson (PI) and David Weinstein, U. of Utah, SCI Institute**

P41 Collaborative Grant - Collaborator

(no % effort, no salary support; active)

**John Fossella (PI), Assistant Professor of Psychiatry, Sackler Institute, Cornell University, transferred KO1 to Mount Sinai School of Medicine, New York, NY**

NIH KO1 NARSAD grant

Imaging and Genetics of Attention

(consultant and advisor; no salary support; active)

**Kamil Ugurbil (PI), CMRR Minnesota**

P41 Collaborative Grant - Collaborator

(no % effort, no salary support; 2007-)

**Caterina Rosano (PI), U. Pittsburgh**

RO1 Grant (scored 130, 5.9 percentile), July 2007-

Brain Anatomical Correlates of Mobility Control in the Oldest Old

(consultant, **awarded**)

**Jair Soares (PI), UTHSCSA Texas**

NIH K24: In Vivo Brain Mechanisms across the Bipolar Spectrum.

(consultant, no % effort, no salary support; pending)

**Howard Aizenstein (PI), U. Pittsburgh**

NIH R21 AG027858-01: Stratifying the Dementia Risk Associated with Subsyndromal Depressive Symptoms

(consultant, no % effort, no salary support; pending)

**Peter Kochunov (PI), UTHSCSA Texas**

NIH K award

(consultant; no salary support; active)

**Elizabeth Sowell (PI), UCLA**

NIH RO1: Longitudinal Mapping of Maturation Change in Brain Function-Structure Relationships

(significant contributor; no salary support; pending)

**Ravi Bansal (PI), New York State Psychiatric Institute**

NIH R21: *Correlates of Brain Surface Morphometry with Developmental Psychopathologies*  
(consultant; no salary support; pending)

**Moo Chung (PI), University of Wisconsin-Madison**

NIH ADNI Ancillary Grant: *Validation of Voxel-Wise Morphometry and Its Application to AD.*  
(consultant; no salary support; pending)

**Allan Reiss (PI), Stanford**

NIH Grant: *Imaging Software and Methods for Mapping Brain Development.*  
(consultant; no salary support; pending)

**Naama Bernea-Goraly and Allan Reiss (PI), Stanford**

NIH RO3 Grant: *Investigation of cortical folding complexity in children with Autism, their Autism Discordant Siblings, and Controls*  
(consultant; no salary support; pending)

**Nick Allen (PI), Murat Yucel, and Julian Simmons, Victoria, Australia**

NHMRC (Australia) Grant: Drug use and adolescent brain and behavioral development: A prospective study.  
(consultant; no salary support; pending)

**David Wolk (PI), UPMC – University of Pittsburgh Medical Center, Dept Neurology**

NIH K23 award  
(consultant; no salary support; pending – score: 133, **will be funded**)

**Danielle Harvey (PI), UC Davis**

NIH K24 award  
(consultant; no salary support; first revision pending)

**Melita Daley (PI), UCLA**

NIH K award  
(**Co-Mentor** – with Ty Cannon and Jennifer Levitt; no salary support; **active**)

**David Glahn (PI), U. Texas Hlth Sci Ctr San Antonio**

RO1: Influence of Psychosis on Brain-Behavior Endophenotypes for Bipolar Disorder  
Subcontract, **Awarded**

**VIII. CURRENT RESEARCH COLLABORATORS (this is a partial list, as the total number of co-authors grew to over 2,000 after the ENIGMA Consortium was formed):**

| <b>Collaborator</b>  | <b>Institution</b> | <b>Project</b>                                |
|----------------------|--------------------|---|
| Jay Giedd MD         | NIMH               | Mapping Brain Growth in Children              |
| Elizabeth Sowell PhD | UCLA Neurology     | Mapping Normal and Abnormal Brain Development |
| Judith Rapoport MD   | NIMH               | Childhood Onset Schizophrenia                 |

|  |   |   |      |
|--|---|---|------|
| Michael Mega MD PhD  | UCLA Neurology                                  | Probabilistic Atlas of the Alzheimer's Brain  |      |
| Jeff Cummings MD   | UCLA Alzheimer's Disease Center                 | Imaging in Dementia   |      |
| John Mazziotta MD PhD  | UCLA Neurology                                  | Probabilistic Reference System for the Human Brain  |      |
| Roger Woods MD   | UCLA Neurology                                  | Neuroanatomic Variability after Image Registration  |      |
| Tim Cloughesy MD   | UCLA Neurology                                  | A Dynamic Framework to Detect Change in Tumor Growth                                      |      |
| Jeff Alger PhD   | UCLA Radiological Sciences                      | Tissue Classification in Malignant Glioma Patients  |      |
| Jennifer Levitt MD and Jim McCracken MD                          | UCLA Child Psychiatry                           | Constructing a Pediatric Brain Atlas  |      |
| Ivo Dinov PhD and De Witt Sumners PhD                            | Florida State Mathematics Dept./ UCLA           | Stochastic Algorithms in Functional Brain Image Analysis                                  |      |
| Tonmoy Sharma MD   | Institute of Psychiatry London, England         | 3D Brain Mapping in Schizophrenia   |      |
| Robert Bilder PhD  | Nathan Kline Institute, New York                | Neuroimaging in First Episode Schizophrenia: Mapping Response to Antipsychotic Medication |      |
| Michael Weiner MD  | UC San Francisco                                | Imaging in Aging and Alzheimer's Disease  |      |
| Greig de Zubicaray PhD<br>Andrew Janke PhD<br>David Doddrell PhD | University of Queensland, Australia             | Mapping Atrophic Rates in Alzheimer's Disease   |      |
| James Semple PhD<br>Beecham, UK                                  | SmithKline                                      | 4D Imaging of Alzheimer's Disease   |      |
| Guillermo Sapiro PhD<br>Christophe Lenglet PhD                   | University of Minnesota<br>Dept. of Engineering | Analyzing Cortical Data with PDEs and Harmonic Maps                                       |      |
| Usha Sinha PhD<br>& IT Medicine                                  | UCLA Radiology<br>Segmentation                  | Automated Patient Scan Retrieval using Atlas-Based  |      |
| Tyrone Cannon PhD  | UCLA Psychology                                 | Discordance Studies of Brain Structure and Function in Schizophrenia                      |      |
| Susan Bookheimer PhD<br>Zeineh MD PhD<br>Alison Burggren PhD     | UCLA Brain Mapping                              | High-Resolution Hippocampal Mapping for Early Diagnosis of Alzheimer's Disease            | Mike |

|  |   |  |
|--|---|--|
| Tony Chan PhD<br>Luminita Vese PhD<br>Yalin Wang PhD<br>Stan Osher PhD | UCLA Mathematics                                  | Level Set Segmentation of Brain Images                             |
| Pat Johnston PhD<br>South Wales  | University of New                                 | Brain Mapping in Schizophrenia                                     |
| Gary Small MD  | UCLA Psychiatry                                   | Early Detection of Alzheimer's Disease in ApoE4 Genotyped Subjects |
| Ed Bullmore MD PhD<br>Cambridge,<br>UK                                 | University of                                     | fMRI of Brain Development  |
| Philip Ward PhD<br>Assen Jablensky MD<br>Ulli Schall MD PhD            | University of New<br>South Wales,<br>Australia    | Brain Imaging in Schizophrenia                                     |
| Robert Nicolson MD<br>Canada   | University of Toronto,                            | Autism   |
| Dave Weinstein PhD<br>Gordon Kindlmann PhD                             | University of Utah<br>Salt Lake City              | Tensor Mapping & Visualization                                     |
| Tony Simon PhD   | UC Davis/MIND Institute                           | Genetic Childhood Disorders  |
| Margie Wright PhD<br>Nick Martin PhD                                   | University of<br>Queensland,<br>(QIMR), Australia | Imaging Genetics in Twins  |

.....