

Jason L. Stein

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Education

University of California, Los Angeles – Los Angeles, CA

Postdoctoral Scholar, July 2011 - Present

Department of Neurology, David Geffen School of Medicine

University of California, Los Angeles – Los Angeles, CA

Doctor of Philosophy, June 2011

Interdepartmental Ph.D. Program for Neuroscience

Dissertation: Searching for Genetic Influences on Human Brain Structure

Northwestern University – Evanston, IL

Bachelor of Arts *cum laude* with Departmental Honors, June 2005

Major: Integrated Science Program

Employment History

Geschwind Laboratory

University of California, Los Angeles – Los Angeles, CA

Postdoctoral Scholar, 7/2011 – present

Modeling genetic effects in neural stem cells under the mentorship of Daniel Geschwind, M.D., Ph.D.

- Developed bioinformatic tools to evaluate how well neural stem cells model brain development.

Laboratory of Neuro Imaging

University of California, Los Angeles – Los Angeles, CA

Graduate Student Researcher, 9/2007 – 6/2011

Thesis work explored how genetic variation affects brain structure, under the mentorship of Paul Thompson, Ph.D.

- Work developing novel methods to analyze high dimensional data and leading an international consortium to discover specific variants affecting brain structure.

Unit for Systems Neuroscience in Psychiatry

National Institute of Mental Health – Bethesda, MD

Intramural Research Training Awardee, 7/2005 – 9/2007

Research in functional and diffusion weighted MRI modeling connectivity in healthy volunteers and patients with schizophrenia under the mentorship of Andreas Meyer-Lindenberg, M.D., Ph.D.

Fermi National Accelerator Laboratory (Fermilab) – Batavia, IL

Department of Physics, Northwestern University – Evanston, IL

Research Intern, 7/2003 – 5/2005

Research in High Energy Particle Physics at then the highest energy particle accelerator in the world under the mentorship of Heidi Schellman, Ph.D.

- Conducted computational research and wrote undergrad honors thesis on the asymmetry in the production and decay of the W boson at Fermilab

Honors and Awards

Post-doctoral:

- Scheibel Distinguished Postdoctoral Lecture Award (2014; Honors a postdoctoral fellow for outstanding research in neuroscience)
- NIH K99/R00 Pathways to Independence Grant Recipient (2013-present; K99MH102357)
- Autism Speaks Translational Postdoctoral Fellowship (2013)
- BRI/Semel Postdoctoral Scholars Travel Award to SfN (2013)
- New Horizons in Human Brain Imaging Fellow (2013)
- T32 Training Grant in Neurobehavioral Genetics (2011-2012)

Graduate:

- Samuel Eiduson Student Lectureship (2011; Recognizes extraordinarily meritorious contributions by a UCLA neuroscience graduate student)
- Pre-Doctoral Ruth L. Kirchstein National Research Service Award (F31MH087061; 2009-2011)
- Achievement Rewards for College Scientists (ARCS) Scholar (2007-2010)
- UCLA NeuroImaging Training Program Training Grant Awardee (2009; NIH T90 DA022768)
- Dr. Ursula Mandel Scholarship (2009)
- UCLA Affiliates Scholarship (2009)
- SfN Graduate Student Chapter Travel Award (2010)
- BRI/Semel Institute Neuroscience Graduate Student Travel Award for the Society for Neuroscience Conference (2009)
- Organization for Human Brain Mapping Travel Award (2009, 2010)

Postbac:

- Winner of Best Oral Presentation and winner of Accommodation Grant to attend an international conference in Soria, Spain ("Cognition: From Genes to Function" sponsored by Fundacion Duques de Soria)

Undergraduate:

- Member Phi Beta Kappa
- Member Sigma Pi Sigma (physics honors fraternity)
- Member Alpha Lambda Delta (first-year Honors fraternity)
- Northwestern University Dean's List (8 of 9 quarters)

Book Chapters:

1. "Genetics of Brain Structure" by **Jason L. Stein**, Derrek P. Hibar, and Paul M. Thompson in *Neuroimaging Genetics* to be published by Oxford University Press (2015). Editors: Kristi Bigos, Ahmad Hariri, and Daniel Weinberger. 32 pages.
2. "Statistical Methods for Meta-Analysis" by **Jason L. Stein**, Paul M. Thompson, and Thomas E. Nichols in *Statistical Methods in Brain Imaging Genetics-An Introduction* to be published by Springer (2015). Editors: Giovanni Montana and JB Poline. 15 pages.
3. "Genetics of the Connectome and the ENIGMA Project" by Paul M. Thompson, Derrek P. Hibar, **Jason L. Stein**, Gautam Prasad, and Neda Jahanshad in *IPSEN the connectome*. (2015). 19 pages.
4. "Imaging Genomics and ENIGMA" by Paul M. Thompson, Derrek P. Hibar, **Jason L. Stein**, and Neda Jahanshad in "Genomics, Circuits and Pathways for the Clinical Neuroscientist" edited by Thomas Lehner, Matt State, Bruce Miller (2015). 29 pages.

Research Publications:

5. Martinez RA*, **Stein JL***, Krostag AF, Nelson AM, Marken JS, Menon V, May RC, Yao Z, Kaykas A, Geschwind DH, Grimley JS. (2015). "Genome engineering of isogenic human ES cells to model autism disorders." *Nucleic Acids Research*. 43(10):e65.
6. Hibar DP*, **Stein JL***, Renteria ME*, Arias-Vasquez A*, Desrivieres S*, [276 additional co-authors], Martin NG, Wright MJ, Schumann G, Franke B, Thompson PM, Medland SE. (2015). "Common genetic variants influence human subcortical brain structures." *Nature*. 520(7546):224-9.
7. Smith I, Silveirinha V, **Stein JL**, de la Torre-Ubieta L, Farrimond JA, Williamson EM, Whalley BJ. (2015). "Human neural stem cell-derived cultures in three dimensional substrates form spontaneously functional neuronal networks." *Tissue Engineering and Regenerative Medicine*. Feb 25.
8. **Stein JL***, de la Torre-Ubieta L*, Tian Y, Parikshak NN, Hernandez IA, Marchetto MC, Baker DK, Lu D, Lowe JK, Wexler EM, Muotri AR, Gage FH, Kosik KS, Geschwind DH. (2014). "A quantitative framework to evaluate modeling of cortical development by neural stem cells." *Neuron*. Jul 2;83(1):69-86. Cover article.
9. Ashbrook DG, Williams RW, Lu L, **Stein JL**, Hibar DP, Nichols TE, Medland SE, Thompson PM, Hager R. (2014). "Joint genetic analysis of hippocampal size in mouse and human identifies a novel gene linked to neurodegenerative disease." *BMC Genomics*. Oct 3;15:850.
10. Hibar DP, **Stein JL**, Jahanshad N, Kohannim O, Hua X, Toga AW, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Thompson PM. (2014). "Genome-wide interaction analysis reveals replicated epistatic effects on brain structure." *Neurobiology of Aging*. 7(2):102-15.
11. Li M, Luo X-j, Rietschel M, Lewis CM, Mattheisen M, [35 additional co-authors], **Stein JL**, Medland SE, Arias Vasquez A, Hibar DP, Franke B, Martin NG, Wright MJ, MoodS Bipolar Consortium, The Swedish Bipolar Study Group, The Alzheimer's Disease Neuroimaging Initiative, ENIGMA Consortium, CHARGE Consortium, Su M B. (2014) "Allelic differences between Europeans and Chinese for CREB1 SNPs and their implications in gene expression regulation, hippocampal structure and function, and bipolar disorder susceptibility." *Molecular Psychiatry*. 19(4):452-61.
12. **Stein JL***, Medland SE*, Vasquez AA*, Hibar DP*, Senstad RE, [193 additional co-authors], Martin NG*, Franke B*, Wright MJ*, Thompson PM* for the Enhancing Neuro

- Imaging Genetics through Meta-Analysis (ENIGMA) Consortium. (2012). "Identification of common variants associated with human hippocampal and intracranial volumes." *Nature Genetics*. 44(5):552-561.
13. Vounou M, Janousova E, Wolz R, **Stein JL**, Thompson PM, Rueckert D, Montana G. (2012). "Sparse reduced-rank regression detects genetic associations with voxel-wise longitudinal phenotypes in Alzheimer's disease." *NeuroImage*. Mar;60(1):700-16.
 14. Sanders SJ, Murtha MT, Gupta AR, Murdoch JD, Raubeson MJ, Willsey AJ, Ercan-Sencicek AG, Dilullo NM, Parikshak NN, **Stein JL**, Walker MF, Ober GT, Teran NA, Song Y, El-Fishawy P, Murtha RC, Choi M, Overton JD, Bjornson RD, Carriero NJ, Meyer KA, Bilguvar K, Mane SM, Sestan N, Lifton RP, Günel M, Roeder K, Geschwind DH, Devlin B, State MW. (2012). "De novo mutations revealed by whole-exome sequencing are strongly associated with autism." *Nature*. 2012 Apr 4;485(7397):237-41.
 15. Bis JC, Decarli C, Smith AV, van der Lijn F, Crivello F, [41 additional co-authors], **Stein JL**, Medland SE, Vasquez AA, Hibar DP, Wright MJ, Franke B, Martin NG, Thompson PM; the Enhancing Neuro Imaging Genetics through Meta-Analysis (ENIGMA) Consortium, Nalls MA, Uitterlinden AG, Au R, Elbaz A, Beare RJ, van Swieten JC, Lopez OL, Harris TB, Chouraki V, Breteler MM, De Jager PL, Becker JT, Vernooij MW, Knopman D, Fazekas F, Wolf PA, van der Lugt A, Gudnason V, Longstreth WT Jr, Brown MA, Bennett DA, van Duijn CM, Mosley TH, Schmidt R, Tzourio C, Launer LJ, Ikram MA, Seshadri S. (2012) "Common variants at 12q14 and 12q24 are associated with hippocampal volume." *Nature Genetics*. 44(5):545-551.
 16. Braskie MN, Jahanshad N, **Stein JL**, Barysheva M, Johnson K, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Ringman JM, Toga AW, Thompson PM. (2012). "Relationship of a variant in the NTRK1 gene to white matter microstructure in young adults." *Journal of Neuroscience*. 32(17):5964-5972.
 17. Kohannim O, Jahanshad N, Braskie MN, **Stein JL**, Chiang MC, Reese AH, Hibar DP, Toga AW, McMahon KL, de Zubicaray GI, Medland SE, Montgomery GW, Martin NG, Wright MJ, Thompson PM. (2012). "Predicting White Matter Integrity from Multiple Common Genetic Variants." *Neuropsychopharmacology*. 37(9):2012-9.
 18. 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 and Human Genetics*. 15(3): 414-8.
 19. Hibar DP, Jahanshad N, **Stein JL**, Kohannim O, Toga AW, Medland SE, Hansell NK, McMahon KL, de Zubicaray GI, Montgomery GW, Martin NG, Wright MJ, Thompson PM. (2012). "Alzheimer's disease risk gene, *GAB2*, is associated with regional brain volume differences in N=755 young, healthy twins." *Twin Research and Human Genetics*. 15(3): 286-295.
 20. Smit DJA, van't Ent D, de Zubicaray GI, **Stein JL**. (2012). "NeuroImaging and Genetics: Exploring, Searching, and Finding." *Twin Research and Human Genetics*. 15(3): 267-272.
 21. Lutkenhoff E*, Karlsgodt KH*, Gutman B, **Stein JL**, Thompson PM, Cannon TD*, Jentsch JD.* (2012). "Structural and Functional Neuroimaging Phenotypes in Dysbindin Mutant Mice." *NeuroImage*. 62(1):120-9.
 22. Kohannim O, Hibar DP, **Stein JL**, Jahanshad N, Hua X, Rajagopalan P, Toga A, Jack Jr CR, Weiner MW, de Zubicaray GI, McMahon KL, Hansell NK, Martin NG, Wright MJ, Thompson PM. (2012). "Discovery and replication of gene influences on brain structure using LASSO regression." *Frontiers in Neurogenomics*. 6:115.
 23. Hibar DP, **Stein JL**, Ryles AB, Kohannim O, Jahanshad N, Medland SE, Hansell NK, McMahon KL, de Zubicaray GI, Montgomery GW, Martin NG, Wright MJ, Saykin AJ, Jack Jr CR, Weiner MW, Thompson PM. (2012). "Genome-wide association identifies genetic variants associated with lentiform nucleus volume in N=1345 young and elderly

- subjects.” *Brain Imaging and Behavior*. 7(2):102-15.
24. Kohannim O, Hibar DP, Jahanshad N, **Stein JL**, Hua X, Toga AW, Jack CR Jr, Weiner MW, Thompson PM; the Alzheimer’s Disease Neuroimaging Initiative. (2012). “Predicting temporal lobe volume on MRI from genotypes using L₁-L₂ Regularized Regression.” *Proc IEEE Int Symp Biomed Imaging*. 2012:1160-1163.
 25. Rajagopalan P, Jahanshad N, **Stein JL**, Hua S, Madsen SK, Kohannim O, Hibar DP, Toga AW, Jack Jr. CR, Saykin AJ, Green RC, Weiner MW, Bis JC, Kuller LH, Riverol M, Becker JT, Lopez OL, Thompson PM, for the Alzheimer’s Disease Neuroimaging Initiative (ADNI), the Cardiovascular Health Study (CHS). (2012). “Common folate gene variant, MTHFR C677T, is associated with brain structure in two independent cohorts of people with mild cognitive impairment.” *NeuroImage: Clinical*. 1(1):179-187.
 26. 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.” *PNAS*. 109(14):E851-9.
 27. Marenco S*, **Stein JL***, Savostyanova AA, Sambataro F, Tan HY, Goldman AL, Verchinski BA, Barnett AS, Dickinson D, Apud JA, Callicott JH, Meyer-Lindenberg A, Weinberger DR. (2012). “Investigation of Anatomical Thalamo-cortical Connectivity and fMRI Activation in Schizophrenia.” *Neuropsychopharmacology*. 37(2):499-507.
 28. **Stein JL**, Hibar DP, Madsen SK, Khamis M, McMahon KL, de Zubicaray GI, Hansell NK, Montgomery GW, Martin NG, Wright MJ, Saykin AJ, Jack CR Jr, Weiner MW, Toga AW, Thompson PM. (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(9):927-37. Manuscript highlighted as a feature image.
 29. 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 *CLU* gene affects white matter microstructure in young adults.” *Journal of Neuroscience*. 31(18):6764-6770.
 30. Joshi AA*, Lepore N*, Joshi SH, Lee AD, Barysheva M, **Stein JL**, 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*. 22(3):101-5.
 31. Ho AJ, Raji CA, Becker JT, Lopez OL, Kuller LH, Hua X, Dinov ID, **Stein JL**, Rosano C, Toga AW, Thompson PM. (2011). “The Effects of Physical Activity, Education, and Body Mass Index on the Aging Brain.” *Human Brain Mapping*. 32(9):1371-82.
 32. Ho AJ, Raji CA, Saharan P, DeGiorgio A, Madsen SK, Hibar DP, **Stein JL**, Becker JT, Lopez OL, Toga AW, Thompson PM. (2011). “Hippocampal volume is related to body mass index in Alzheimer’s disease.” *NeuroReport*. 22(1):10-4.
 33. Zink CF, Kempf L, Hakimi S, **Stein JL**, Meyer-Lindenberg A. (2011). “Vasopressin modulates social recognition-related activity in the left temporoparietal junction in humans.” *Translational Psychiatry*. 1, e3.
 34. Hibar DP, **Stein JL**, Kohannim O, Jahanshad N, Saykin AJ, Shen L, Kim S, Pankratz N, Foroud T, Huentelman MJ, Potkin SG, Jack CR Jr, Weiner MW, Toga AW, Thompson PM. (2011). “Voxelwise gene-wide association study (vGeneWAS): multivariate gene-based association testing in 731 elderly subjects.” *NeuroImage*. 56(4):1875-91.
 35. Kochunov P, Glahn DC, Nichols TE, Winkler AM, Hong EL, Holcomb HH, **Stein JL**, Thompson PM, Curran JE, Carless MA, Olvera RL, Johnson MP, Cole SA, Kochunov V, Kent J, Blangero J. (2011). “Genetic Analysis of Cortical Thickness and Fractional Anisotropy of Water Diffusion.” *Front Neurosci*. 5:120.
 36. **Stein JL**, Hua X, Morra JH, Lee S, Hibar DP, Ho AJ, Leow AD, Toga AW, Sul JH, Kang HM, Eskin E, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, Gerber JD, Allen AN, Corneveaux JJ, Stephan DA, Webster J, DeChairo BM, Potkin SG,

- Jack CR Jr, Weiner MW, Thompson PM. (2010). "Genome-Wide Analysis Reveals Novel Genes Influencing Temporal Lobe Structure with Relevance to Neurodegeneration in Alzheimer's Disease." *NeuroImage*. 51(2): 542-54.
37. **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 AN, Corneveaux JJ, DeChairo BM, Potkin SG, Weiner MW, Thompson PM. (2010). "Voxelwise Genome-Wide Association Study (vGWAS)." *NeuroImage*. 53(3):1160-74.
 38. 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 AN, Corneveaux JJ, Stephan DA, DeCarli CS, DeChairo BM, Potkin SG, Jack CR Jr, Weiner MW, Raji CA, Lopez OL, Becker JT, Carmichael OT, Thompson PM. (2010). "Commonly carried allele within *FTO*, an obesity-associated gene, relates to accelerated brain degeneration in the elderly." *PNAS*. 107(18): 8404-9.
 39. Ho AJ, Hua X, Lee S, Leow AD, Yanovsky I, Gutman B, Dinov ID, Leporé N, **Stein JL**, Toga AW, Jack CR Jr, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, Thompson PM. (2010). "Comparing 3 Tesla and 1.5 Tesla MRI for Tracking Alzheimer's Disease Progression with Tensor-Based Morphometry." *Human Brain Mapping*. 31(4): 499-514.
 40. 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 Jr, Weiner MW; Alzheimer's Disease Neuroimaging Initiative. (2010). "Alzheimer's Disease Neuroimaging Initiative biomarkers as quantitative phenotypes: Genetics core aims, progress and plans." *Alzheimer's & Dementia*. 6(3): 256-273.
 41. Zink CF, **Stein JL**, Kempf L, Hakimi S, Meyer-Lindenberg A. (2010). "Vasopressin modulates medial prefrontal cortex-amygdala circuitry during emotion processing in humans." *Journal of Neuroscience*. 30(20): 7017-22.
 42. Ho AJ, Raji CA, Becker JT, Lopez OL, Kuller LH, Hua X, Lee S, Hibar D, Dinov ID, **Stein JL**, Jack CR Jr, Weiner MW, Toga AW, Thompson PM. (2010). "Obesity is linked with lower brain volume in 700 AD and MCI Patients." *Neurobiology of Aging*. 31(8):1326-39.
 43. Eckstein I, Shattuck DW, **Stein JL**, McMahon KL, de Zubicaray G, Wright MJ, Thompson PM, Toga AW. (2009). "Active Fibers: Matching Deformable Tract Templates to Diffusion Tensor Images." *NeuroImage*. 47 Suppl 2: T82-9.
 44. Zink CF, Tong Y, Chen Q, Bassett DS, **Stein JL**, Meyer-Lindenberg A. (2008). "Know your place: Neural processing of social hierarchy in humans." *Neuron*. 58(2): 273-83. Cover Article.
 45. **Stein JL**, Wiedholz LM, Bassett DS, Weinberger DR, Zink CF, Mattay VS, Meyer-Lindenberg A. (2007). "A Validated Network of Effective Amygdala Connectivity." *NeuroImage*. 36(3):736-45.

Reviews/Editorials:

46. **Stein JL**. (2015). "Copy number variation and brain structure: lessons learned from chromosome 16p11.2." *Genome Medicine*. Feb 16;7(1):13. Commissioned Preview.
47. Thompson PM, **Stein JL**, Medland SE, Hibar DP, Vasquez AA, Renteria ME, [286 additional co-authors]. (2014) "The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data." *Brain Imaging Behav*. 8(2):153-82. Review
48. **Stein JL**, Parikshak NN, Geschwind DH. (2013). "Rare inherited variation in autism: beginning to see the forest and a few trees." *Neuron*. 77(2):209-11. Commissioned Preview.
49. Hibar DP, Kohannim O, **Stein JL**, Chiang MC, Thompson PM. (2011). "Multilocus genetic analysis of brain images." Review. *Front Genet*. 2:73.

Manuscripts Submitted/In Press:

50. Franke B*, **Stein JL***, Ripke S*, Anttila V, Hibar D, van Hulzen K, Arias-Vasquez AA, Schizophrenia Working Group of the Psychiatric Genomics Consortium, ENIGMA Consortium, O'Donovan MC, Thompson PM, Neale BM, Medland SE, Sullivan PF. "Evaluating the overlap between common genetic influences on schizophrenia and subcortical brain volumes." 23 pages.

*Authors contributed equally to this work

Invited Presentations

1. UCSB Summer Institute in Cognitive Neuroscience 2015. "In vitro models of developmental disorders." University of California, Santa Barbara. June 29, 2015.
2. Introduction to Imaging Genetics Educational Course at the Organization for Human Brain Mapping 2015 Meeting. Honolulu, Hawaii. "After the association: Functional and Biological Validation of Variants." June 14, 2015.
3. Scheibel Distinguished Postdoctoral Lecture Award. "Evaluating Human Neural Stem Cell Models Using a Transcriptomic Rubric." University of California, Los Angeles. November 4, 2014.
4. Keynote Speaker at International Symposium on Frontiers in Functional Brain Image Research. Beijing, China. "Meta-analytic imaging genomics through the ENIGMA Consortium." October 26, 2014.
5. Introduction to Imaging Genetics Educational Course at the Organization for Human Brain Mapping 2014 Meeting. Hamburg, Germany. "Interpretation of Results." June 8, 2014.
6. Discussant at Symposium entitled "Enhancing Neuroimaging Genetics through Meta-Analysis: Results from the ENIGMA consortium." World Congress of Psychiatric Genetics 2013 Meeting. Boston, MA. Oct 20, 2013.
7. Introduction to Imaging Genetics Educational Course at the Organization for Human Brain Mapping 2013 Meeting. Seattle, WA. "ENIGMA and Large-Scale Association." June 16, 2013.
8. New Horizons in Human Brain Imaging Conference. Oahu, Hawaii. "Meta-analytic imaging genomics." March 6, 2013.
9. Collaborative Discussion, Laboratory of Ricardo Dolmetsch. Allen Institute, Seattle, WA. "Modeling autism in human neural progenitors as a platform for therapeutic discovery." August 23, 2012.
10. Workshop entitled "Big Science comes to Imaging Genetics" at the Organization for Human Brain Mapping 2012 Meeting. Beijing, China. "Meta-analytic genome-wide association of hippocampal, brain, and intracranial volumes via the ENIGMA consortium." June 12, 2012.
11. Introduction to Imaging Genetics Educational Course at the Organization for Human Brain Mapping 2012 Meeting. Beijing, China. "Meta-analysis in imaging genomics." June 10, 2012.
12. Hot Topics session at the American Academy of Neurology 2012 Meeting. New Orleans, LA. "Searching for Genetic Influences on Brain Structure." April 24, 2012.
13. Introduction to Imaging Genetics Educational Course at the Organization for Human

Brain Mapping 2011 Meeting. Quebec City, Canada. "Mass Univariate Approaches in Imaging Genomics" June 26, 2011.

14. Imaging and Cognition Genetics Meeting 2011. Os, Norway. "The ENIGMA consortium and meta-analytic imaging genomics." June 17-18, 2011.
15. Imaging and Cognition Genetics Meeting 2011 Educational Day. Os, Norway. "Meta-analysis in imaging genomics." June 16, 2011.
16. Samuel Eiduson Student Lectureship. University of California, Los Angeles. "Searching for genetic influences on brain structure." May 17, 2011.
17. Winter Conference on Brain Research. Keystone, CO. "What Brain Imaging Combined with Genetics Can Tell Us about Brain Function and Neuropsychiatric Illness." January 22-27, 2011.
18. Seventh Annual International Imaging Genetics Conference. Irvine, CA. "Meta-analytic imaging genomics and voxelwise GWAS." January 17, 2011.
19. Lab Meeting of Dr. Andrew Saykin, Indiana University School of Medicine. Indianapolis, IN. "Meta-analytic imaging genomics." January 6, 2011.
20. UCLA Neuroscience Interdepartmental Program Retreat. Los Angeles, CA. "Discovery and Replication of Dopamine-Related Gene Effects on Caudate Volume using Genome-Wide Search." October 2, 2010.
21. Introduction to Imaging Genetics Educational Course at the Organization for Human Brain Mapping 2010 Meeting. Barcelona, Spain. "Univariate Approaches: Multiple Testing & Voxelwise Whole Genome Association." June 6, 2010.
22. Lab Meeting, Laboratory of Personality and Cognition, National Institute of Aging. Baltimore, MD. "Searching for Genetic Influences on Brain Structure." March 16, 2010.

Other oral presentations/abstracts

1. **Stein JL**, Franke B, Hibar DP, van Hulzen K, Nichols TE, Arias-Vásquez AA, Medland SE, Thompson PM, The ENIGMA2 Consortium, The SZ working group Psychiatric Genomics Consortium. (2015). "Evaluating Overlap between Genetic Influences on Schizophrenia Risk and Subcortical Brain Volumes." *Organization for Human Brain Mapping 2015 Meeting*. Honolulu, HI. Poster Presentation.
2. **Stein JL** for the ENIGMA Consortium. (2014). "The Enigma Consortium: Determining the Genetic Architecture of Brain Structure Through Meta-analysis." *Society for Biological Psychiatry 2014 Meeting*. New York, NY. **Symposium Presentation**.
3. **Stein JL**, de la Torre-Ubieta L, Tian Y, Parikshak NN, Lu D, Lowe JK, Geschwind DH. (2014). "In Vitro Modeling of Brain Development Using Primary Human Neural Stem Cells Extensively Parallels In Vivo Development." *Society for Biological Psychiatry 2014 Meeting*. New York, NY. **Oral Presentation**.
4. **Stein JL**, Grimley JS, Menon V, Geschwind DH, Kaykas A. (2013). "TALENSeek: A validated program for identifying genomic engineering sites." *Society for Neuroscience 2013 Meeting*. San Diego, CA. Poster Presentation.
5. Rosenblatt J, Benjamini Y, Bogomolov M, **Stein JL**, Thompson PM. (2013). "vGWAS revisited: A novel and powerful approach to voxelwise genome-wide association studies." *Organization for Human Brain Mapping 2013 Meeting*. Seattle, WA. Oral Presentation.
6. **Stein JL**, for the The ENIGMA Consortium. (2011). "Genome-Wide Association Meta-Analysis of Hippocampal Volume via the ENIGMA Consortium" *Organization for Human Brain Mapping 2011 Meeting*. Quebec City, Canada. Poster Presentation.

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7. **Stein JL**, Hibar DP, Madsen SK, Khamis M, McMahon KL, de Zubicaray GI, Hansell NK, Martin NG, Wright MJ, Saykin AJ, Jack Jr CR, Weiner MW, Toga AW, Thompson PM. (2010). "Genome-wide search reveals dopamine-related genetic variation effects on caudate volume replicated in young and elderly populations (N=1198)." *Society for Neuroscience 2010 Meeting*. San Diego, California. Poster Presentation.
 8. **Stein JL**, Hua X, Lee S, Ho AJ, Leow AD, Toga AW, Saykin AJ, Shen L, Foroud T, Pankratz N, Huentelman MJ, Craig DW, DeChairo BM, Potkin SG, Weiner MW, Thompson PM. (2010). "Voxelwise Genome-Wide Association Study (vGWAS)." *Organization for Human Brain Mapping 2010 Meeting*. Barcelona, Spain. **Oral Presentation and E-poster**.
 9. **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 AN, Corneveaux JJ, DeChairo BM, Potkin SG, Weiner MW, Thompson PM. (2010). "Voxelwise Genome-Wide Association Study (vGWAS)." *University of California, Irvine International Imaging Genetics Conference 2010*. Irvine, CA. Poster Presentation.
 10. **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 Jr 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 2009 Meeting*. Chicago, IL. Poster Presentation.
 11. **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 250 Twins." *Organization for Human Brain Mapping 2009 Meeting*. San Francisco, CA. Poster Presentation.
 12. **Stein JL**, Savostyanova AA, Goldman AL, Reed JD, Zink CF, Weinberger DR, Mattay VS, Marengo S, Meyer-Lindenberg A. (2007). "Segmenting thalamic nuclei using probabilistic diffusion tensor imaging and functional connectivity." *Society for Neuroscience 2007 Meeting*. San Diego, CA. **Oral presentation**.
 13. Chen G, Glen DR, **Stein JL**, Meyer-Lindenberg A, Saad ZS, Cox RW. (2007). "Model Validation and Automated Search in fMRI Path Analysis: A Fast Open-Source Tool for SEM." *Organization for Human Brain Mapping 2007 Meeting*. Chicago, IL. Poster Presentation.
 14. **Stein JL**. (2006). "Automatic construction and validation of path models from human fMRI data." *Cognition: From Genes to Function* sponsored by Fundacion Duques de Soria. Soria, Spain. **Oral Presentation**.
 15. **Stein JL**, Wiedholz LM, Weinberger DR, Mattay VS, Meyer-Lindenberg A. (2006). "A Validated Network of Effective Amygdala Connectivity During Perceptual Processing of Negative Emotional Stimuli." *Society for Neuroscience 2006 Meeting*. Atlanta, GA. Poster Presentation.
 16. **Stein JL**, Bodurka J, Zink C, Kempf L, Draper C, Rainey C, Mattay VS, Meyer-Lindenberg A. (2006). "Regional classification through functional connectivity: an approach to functional neuroanatomy through combined ICA-clustering in high-speed 8 channel-coil resting fMRI." *Organization for Human Brain Mapping 2006 Meeting*. Florence, Italy. Poster Presentation.

Teaching Experience

Course Organizer – June 14, 2015

Organization for Human Brain Mapping 2015 Meeting – Honolulu, Hawaii

Introduction to Imaging Genetics Educational Course

Course Organizer – June 8, 2014

Organization for Human Brain Mapping 2014 Meeting – Hamburg, Germany

Introduction to Imaging Genetics Educational Course

Teaching Assistant - Fall Quarter, 2010

University of California, Los Angeles – Los Angeles, CA

Neuroscience M101A: From Molecules to Mind: Cellular Neurophysiology, Sensory, and Motor Systems

Grants

Current

MH102357-01(Stein, J. PI) K99/R00 Pathways to Independence Grant NIH/NIMH Genetic Influences on Human Cortical Development Pinpoint specific genetic variants that create changes in basic neurodevelopmental phenotypes that will allow us to explore biological pathways that determine the structure and function of our brains.	02/01/2014-1/31/2019 \$109,250	75% effort
U54EB020403-01(Thompson, P. PI) NIH/NHGRI ENIGMA Center for Worldwide Medicine, Imaging & Genomics The ENIGMA Center is an unprecedented global effort uniting together 287 scientists from 125 institutions and all their vast biomedical data, to work on 9 major human brain diseases: schizophrenia, bipolar disorder, major depression, ADHD, OCD, autism, 22q deletion syndrome, HIV/AIDs and additions. ENIGMA integrates images from multiple modalities, genomes, connectomes and biomarkers on an unimaginable scale, with new computations to integrate, cluster, and learn from complex biodata types. Role: Consultant	09/29/2014-09/30/2018 \$2,366,897	8%
U01MH105991-01(Geschwind, D. PI) NIH/NIMH Defining Cell Types, Lineage and Connectivity in Developing Human Fetal Cortex We are conducting single-cell mRNA expression profiles of fetal human cortex to provide an accurate and efficient rubric for a first generation classification schema that can be integrated with lineage, morphology and connectivity. Role: Co-Investigator	09/26/2014 – 08/31/2017 \$788,095 (no paid effort)	3%

Completed

Postdoctoral Fellowship 8676 Stein (PI) Autism Speaks Genetic Models of Autism in Human Neural Progenitor Cells: Platform for Therapeutic Discovery Project funded to generate stem cell models of autism by knocking down autism candidate genes in differentiating primary human neural progenitors.	08/01/2013-01/31/2014 \$54,400	100%
F31 MH087061 (Stein, J. PI) NIH/NIMH	01/01/2010 – 12/31/2012 \$31,748	75%

Studying the Genetic Basis of Schizophrenia through Tract Alterations

This project uses a large cohort of twins to identify genes associated with aberrant connections between different brain regions, a known deficit in patients with schizophrenia.

Professional Service

Journal Editing and Reviewing

Guest Editor for Twin Research and Human Genetics special issue on “Genetics of brain structure and function” published June, 2012.

Reviewing Editor for *Frontiers in Neurogenomics*, 2011-2012.

Reviewer for 17 journals including *Science*, *Brain*, *Archives of General Psychiatry*, *NeuroImage*, *Cerebral Cortex*, *PLoS Genetics*, *PLoS One*, *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, *Brain Imaging and Behavior*, *Biological Psychiatry*, *Schizophrenia Bulletin*, *Twin Research and Human Genetics*, *Frontiers in Neurogenomics*, *Translational Psychiatry*, *Bioinformatics*, *Neurobiology of Disease*

Software

RRHO Bioconductor Package

(<http://www.bioconductor.org/packages/devel/bioc/html/RRHO.html>)

CoNTEXT Package (<http://context.semel.ucla.edu>)

TALENSeek Package (<http://geschwindlab.neurology.ucla.edu/protocols>)