

# Joey W. Trampush, Ph.D.

## Curriculum Vitae

November 17, 2020

Della Martin Assistant Professor of Psychiatry  
Department of Psychiatry and the Behavioral Sciences  
Keck School of Medicine of USC  
University of Southern California  
2250 Alcazar Street, Suite 2200  
Los Angeles, CA 90033

### EDUCATION

- 2003-2010 The Graduate Center of the City University of New York  
Ph.D. Psychology: Clinical Neuropsychology  
Thesis: *Moderator effects of working memory on symptom stability in attention-deficit/hyperactivity disorder (ADHD) by dopamine D1 and D2 receptor polymorphisms during development*
- 2003-2008 The Graduate Center of the City University of New York  
M.Phil. Psychology: Clinical Neuropsychology
- 2003-2007 Queens College of the City University of New York  
M.A. Psychology: Clinical Neuropsychology  
Thesis: *The impact of childhood ADHD on dropping out of high school in urban adolescents/young adults*
- 1998-2000 Bowling Green State University  
B.A. Psychology, Minor in Sociology

### POSTDOCTORAL TRAINING

- 2010-2012 Postdoctoral Fellow, National Institute of Mental Health of the National Institutes of Health, Bethesda  
Clinical Brain Disorders Branch and Genes, Cognition and Psychosis Program  
Advisors: Dwight Dickinson, Ph.D., J.D. and Daniel R. Weinberger, M.D.

### FACULTY ACADEMIC APPOINTMENTS

- 2019- Della Martin Endowed Assistant Professorship in Psychiatry, Della Martin Foundation, Department of Psychiatry and the Behavioral Sciences, Keck School of Medicine of USC
- 2018- Assistant Professor of Clinical Psychiatry and Behavioral Sciences, Department of Psychiatry and the Behavioral Sciences, Keck School of Medicine of USC
- 2012-2016 Assistant Professor of Psychiatry, Department of Psychiatry, School of Medicine at Hofstra University of the North Shore – Long Island Jewish Health System, New York
- 2012-2016 Assistant Investigator of Psychiatric Neuroscience, Center for Psychiatric Neuroscience, Feinstein Institute for Medical Research of the North Shore – Long Island Jewish Health System, New York
- 2012-2016 Director, Laboratory of Cognitive Genomics, Division of Psychiatry Research, Zucker Hillside Hospital of the North Shore – Long Island Jewish Health System, New York

### RESEARCH EXPERIENCE

- 2018- CESR Research Fellow, Center for Economic and Social Research (CESR), Dana and David Dornsife School of Letters, Arts and Sciences of USC
- 2014- Investigator and Data Analyst, Cognitive Genomics Consortium (COGENT)

- 2003-2010 Graduate Student, The Graduate Center of the City University of New York, New York  
Neuropsychology Doctoral Program  
Advisor: Jeffrey M. Halperin, Ph.D.
- 2007-2009 Graduate Research Coordinator, Division of Child and Adolescent Psychiatry, Department of Psychiatry, Mount Sinai School of Medicine, New York
- 2003-2007 Graduate Research Assistant, Laboratory of Developmental Neuropsychology, Neuropsychology Doctoral Program, Queens College of the City University of New York, Flushing, NY
- 2003-2007 Graduate Research Assistant, Division of Child and Adolescent Psychiatry, Department of Psychiatry, Mount Sinai School of Medicine, New York
- 2000-2003 Postbaccalaureate Research Assistant, UCI Child Development Center, Department of Pediatrics, University of California, Irvine
- 1999-2000 Undergraduate Research Assistant, Cognitive Psychology Lab, Bowling Green State University, Bowling Green, OH

### **CLINICAL EXPERIENCE**

- 2016-2018 Founder & Chief Neuropsychologist, BrainWorkup Neuropsychology Clinic, LLC., Los Angeles
- 2008-2009 Predoctoral Intern (APA accredited), Henry Ford Hospital, Detroit  
Department of Neuropsychology  
Specialty: *Clinical Pediatric Neuropsychology*
- 2007-2008 Clinical Neuropsychology Extern, Weill Cornell Medical College, New York  
Department of Neurological Surgery
- 2006-2007 Clinical Neuropsychology Extern, Mount Sinai School of Medicine, New York  
Learning and Development Center
- 2005-2006 Clinical Neuropsychology Extern, Langone NYU Medical Center, New York  
Department of Neurology Comprehensive Epilepsy Center
- 2005-2006 Psychotherapy Extern, Bellevue Hospital, New York  
Traumatic Brain Injury Unit
- 2005-2005 Clinical Neuropsychology Extern, Long Island Jewish Medical Center, New York  
Department of Neurology

### **PROFESSIONAL LICENSURE**

Psychology, State of California, License No: PSY29212 (active)  
Psychology, State of New York, License No: 020570 (active)

### **RESEARCH INTERESTS**

- Developmental neuropsychology
- Molecular genetics of cognition and psychopathology
- Longitudinal and multivariate data modeling; statistical genomics; growth trajectories
- ADHD; schizophrenia; neurodevelopment

## AWARDS & HONORS

### Awarded Fellowships

1. NIH Loan Repayment Program (LRP), 2014-2016
2. Graduate Assistantship B Research Fellowship, 2007-2008, City University of New York
3. CUNY Fellowship, 2004, City University of New York

### Conference Travel Awards

1. Pharmacogenomics in Psychiatry Annual Meeting, Young Investigator Travel Award, 2014
2. Elizabeth Munsterberg Koppitz Fellowship in Child Psychology, 2008, American Psychological Association
3. Young Investigator Travel Award, 2008, ADHD Molecular Genetics Network, 9th Annual Meeting
4. Young Investigator Travel Award, 2006, ADHD Molecular Genetics Network 7th Annual Meeting
5. David Zeaman Student Travel Award, 2003, Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities

## PUBLICATIONS

### Peer Reviewed

1. **Pleiotropic meta-analysis of cognition, education, and schizophrenia differentiates roles of early neurodevelopmental and adult synaptic pathways**  
Lam M, Hill WD, **Trampush JW**, Yu J, Knowles E, Davies G, Liewald DC, Starr JM, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, Mukherjee S, DeRosse P, Lundervold A, Steen VM, Espeseth T, Räikkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Horan M, Chiba-Falek O, Attix DK, Need AC, Cirulli ET, Voineskos AN, Stefanis NC, Avramopoulos D, Hatzimanolis A, Arking DE, Smyrnis N, Bilder RM, Freimer NA, Cannon TD, London E, Poldrack RA, Sabb FW, Congdon E, Drabant-Conley E, Scult M, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri A, Weinberger DR, Pendleton N, Bitsios P, Rujescu D, Lahti J, Le Hellard S, Keller MC, Andreassen OA, Deary IJ, Glahn DC, Malhotra AK, Lencz T  
*American Journal of Human Genetics*. 2019 Aug 1;105(2):334-350  
doi: 10.1016/j.ajhg.2019.06.012
2. **Multi-trait analysis of GWAS and biological insights into cognition: A response to Hill (2018)**  
Lam M, **Trampush JW**, Yu J, Knowles E, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, DeRosse P, Lundervold AJ, Steen VM, Espeseth T, Räikkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Chiba-Falek O, Attix DK, Need AC, Cirulli ET, Voineskos AN, Stefanis NC, Avramopoulos D, Hatzimanolis A, Arking DE, Smyrnis N, Bilder RM, Freimer NA, Cannon TD, London E, Poldrack RA, Sabb FW, Congdon E, Conley ED, Scult MA, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri AR, Weinberger DR, Pendleton N, Bitsios P, Rujescu D, Lahti J, Hellard SL, Keller MC, Andreassen OA, Glahn DC, Malhotra AK, Lencz T.  
*Twin Res Hum Genet* 2018 Oct;21(5):394-397  
doi: 10.1017/thg.2018.46
3. **Gene discovery and polygenic prediction from a 1.1-million-person GWAS of educational attainment**  
Lee JJ, Wedow R, Okbay A, Kong E, Maghzian O, Zacher M, Nguyen-Viet TA, Bowers P, Sidorenko J, Karlsson Linnér R, Fontana MA, Kundu T, Lee C, Li H, Li R, Royer R, Timshel P, Walters RK, Willoughby EA, Yengo L, *23andMe Research Team*; *COGENT (Cognitive Genomics Consortium)*; *Social Science Genetic Association Consortium*, Alver M, Bao Y, Clark DW, Day FR, Joshi PK, Kemper KE, Langenberg C, Mägi R, **Trampush JW**, Verma SS, Wu Y, Yang MLZ, Zhao JH, Zheng Z, Boardman JD, Campbell H, Freese J, Mullan Harris K, Hayward C, Herd P, Kumari M, Lencz T, Luan J, McQueen MB, Metspalu A, Milani L, Ong KK, Perry JR, Porteous DJ, Ritchie MD, Smart M, Smith BH, Wareham NJ, Wilson JF, Beauchamp JP, Conley D, Esko T, Lehrer SF, Magnusson PKE, Oskarsson S, Pers TH, Robinson MR, Thom K, Watson C, Chabris CF, Johannesson M, Meyer MN, Laibson DI, Yang J, Koellinger PD, Turley P, Visscher PM, Benjamin DJ, Cesarini D  
*Nature Genetics* 2018 Aug;50(8):1112-1121  
doi: 10.1038/s41588-018-0147-3
4. **GWAS meta-analysis (N=269,867) identifies new genes and functional links to intelligence**  
Savage JE, Jansen PR, Stringer S, Watanabe K, Bryois J, de Leeuw CA, Nagel M, Awasthi S, Barr PB, Coleman JRI, Grasby KL, Hammerschlag AR, Kaminski J, Karlsson R, Krapohl E, Lam M, Nygaard M, Reynolds CA, **Trampush JW**, Young H, Zabaneh D, Hägg S, Hansell NK, Karlsson IK, Linnarsson S, Montgomery GW, Muñoz-Manchado AB,

Quinlan EB, Schumann G, Skene N, Webb BT, White T, Arking DE, Attix DK, Avramopoulos D, Bilder RM, Bitsios P, Burdick KE, Cannon TD, Chiba-Falek O, Christoforou A, Cirulli ET, Congdon E, Corvin A, Davies G, Deary IJ, DeRosse P, Dickinson D, Djurovic S, Donohoe G, Drabant-Conley E, Eriksson JG, Espeseth T, Freimer NA, Giakoumaki S, Giegling I, Gill M, Glahn DC, Hariri A, Hatzimanolis A, Keller MC, Knowles E, Konte B, Lahti J, Le Hellard S, Lencz T, Liewald DC, London E, Lundervold AJ, Malhotra AK, Melle I, Morris D, Need AC, Ollier W, Palotie A, Payton A, Pendleton N, Poldrack RA, Räikkönen K, Reinvang I, Roussos P, Rujescu D, Sabb FW, Scult MA, Smyrnis N, Starr JM, Steen VM, Stefanis NC, Straub RE, Sundet K, Voineskos AN, Weinberger DR, Widen E, Yu J, Abecasis G, Andreassen O, Breen G, Christiansen L, Debrabant B, Dick DM, Heinz A, Hjerling-Leffler J, Ikram MA, Kendler KS, Martin NG, Medland SE, Pedersen NL, Plomin R, Polderman TJC, Ripke S, van der Sluis S, Sullivan PF, Tiemeier H, Vrieze SI, Wright MJ, Posthuma D  
*Nature Genetics* 2018 Jul;50(7):912-919  
doi: 10.1038/s41588-018-0152-6

5. **Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function**

Davies G, Lam M, Harris SE, **Trampush JW**, Luciano M, Hill WD, Hagenaars SP, Ritchie SJ, Marioni RE, Fawns-Ritchie C, Liewald DC, Okely JA, Ahola-Olli A, Barnes CLK, Bertram L, Bis JC, Burdick KE, Christoforou A, DeRosse P, Djurovic S, Espeseth T, Giakoumaki S, Giddaluru S, Gustavson DE, Hayward C, Hofer E, Ikram MA, Karlsson R, Knowles E, Lahti J, Leber M, Li S, Mather KA, Melle I, Morris D, Oldmeadow C, Palviainen T, Payton A, Pazoki R, Petrovic K, Reynolds CA, Sargurupremraj M, Scholz M, Smith JA, Smith AV, Terzikhan N, Thalamuthu A, Trompet S, van der Lee SJ, Ware EB, Windham BG, Wright MJ, Yang J, Yu J, Ames D, Amin N, Amouyel P, Andreassen OA, Armstrong N, Attia JR, Attix D, Avramopoulos D, Bennett DA, Böhmer AC, Boyle PA, Brodaty H, Campbell H, Cannon TD, Cirulli ET, Congdon E, Drabant-Conley E, Corley J, Cox SR, Dale AM, Dehghan A, Dick D, Dickinson D, Eriksson JG, Evangelou E, Faul JD, Ford I, Freimer NA, Gao H, Giegling I, Gillespie NA, Gordon SD, Gottesman RF, Griswold ME, Gudnason V, Harris TB, Hatzimanolis A, Heiss G, Holliday EG, Joshi PK, Kähönen M, Kardia SLR, Karlsson I, Kleineidam L, Knopman DS, Kochan N, Konte B, Kwok JB, Le Hellard S, Lee T, Lehtimäki T, Li SC, Liu T, Koini M, London E, Longstreth WT, Lopez OL, Loukola A, Luck T, Lundervold AJ, Lundquist A, Lyytikäinen LP, Martin NG, Montgomery GW, Murray AD, Need AC, Noordam R, Nyberg L, Ollier W, Papenberg G, Pattie A, Polasek O, Poldrack RA, Psaty BM, Riedel-Heller SG, Rose RJ, Rotter JI, Roussos P, Rovio SP, Saba Y, Sabb FW, Sachdev PS, Satizabal C, Schmid M, Scott RJ, Scult MA, Simino J, Slagboom PE, Smyrnis N, Soumaré A, Stefanis NC, Stott DJ, Straub RE, Sundet K, Taylor AM, Taylor KD, Tzoulaki I, Tzourio C, Uitterlinden A, Vitart V, Voineskos AN, Vuoksimaa E, Wagner M, Wagner H, Weinhold L, Wen KH, Widen E, Yang Q, Zhao W, Adams HHH, Arking DE, Bilder RM, Bitsios P, Boerwinkle E, Chiba-Falek O, Corvin A, De Jager PL, Dobbins S, Donohoe G, Elliott P, Fitzpatrick AL, Gill M, Glahn DC, Hägg S, Hansell NK, Hariri AR, Ikram MK, Jukema JW, Kaprio J, Keller MC, Kremen WS, Launer L, Lindenberg U, Palotie A, Pedersen NL, Pendleton N, Porteous DJ, Räikkönen K, Raitakari OT, Ramirez A, Reinvang I, Rudan I, Rujescu D, Schmidt R, Schmidt H, Schofield PW, Schofield PR, Starr JM, Steen VM, Trollor JN, Turner ST, Van Duijn CM, Villringer A, Weinberger DR, Weir DR, Wilson JF, Malhotra A, McIntosh AM, Gale CR, Seshadri S, Mosley T, Bressler J, Lencz T, Deary IJ  
*Nature Communications* May 29;9(1):2098  
doi: 10.1038/s41467-018-04362-x

6. **Large-scale cognitive GWAS meta-analysis reveals tissue-specific neural expression and potential nootropic drug targets**

Lam M, **Trampush JW**, Yu J, Knowles E, Davies G, Liewald DC, Starr JM, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, Mukherjee S, DeRosse P, Lundervold A, Steen VM, Espeseth T, Räikkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Horan M, Chiba-Falek O, Attix DK, Need AC, Cirulli ET, Voineskos AN, Stefanis NC, Avramopoulos D, Hatzimanolis A, Arking DE, Smyrnis N, Bilder RM, Freimer NA, Cannon TD, London E, Poldrack RA, Sabb FW, Congdon E, Drabant-Conley E, Scult M, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri A, Weinberger DR, Pendleton N, Bitsios P, Rujescu D, Lahti J, Le Hellard S, Keller MC, Andreassen OA, Deary IJ, Glahn DC, Malhotra AK, Lencz T  
*Cell Reports* 2017 Nov 28;21(9):2597-2613  
doi: 10.1016/j.celrep.2017.11.028

7. **The genetics of endophenotypes of neurofunction to understand schizophrenia (GENUS) consortium: A collaborative cognitive and neuroimaging genetics project**

Blokland G, del Re EC, Meshulam-Gatelly R, Jovicich J, **Trampush JW**, Keshavan MS, DeLisi LE, Walters JT, Turner JA, Malhotra A, Lencz T, Shenton ME, Voineskos AN, Rujescu D, Giegling I, Kahn RS, Roffman JL, Holt DJ, Ehrlich S, Kikinis Z, Dazzan P, Murray RM, Di Forti M, Lee J, Sim K, Lam M, Wolthuisen RP, de Zwarte SM, Walton E, Cosgrove

D, Kelly S, Maleki N, Osiecki L, Picchioni M, Bramon E, Russo M, David AS, Mondelli V, Reinders AA, Falcone MA, Hartmann AM, Konte B, Morris DW, Gill M, Corvin AP, Cahn W, Ho NF, Liu JJ, Keefe RS, Gollub RL, Manoach DS, Calhoun VD, Schulz SC, Sponheim SR, Goff DC, Buka SL, Cherkerzian S, Thermenos HW, Kubicki M, Nestor PG, Dickie EW, Vassos E, Ciufolini S, Marques TR, Crossley NA, Purcell SM, Smoller JW, van Haren NE, Touloupoulou T, Donohoe G, Goldstein JM, Seidman LJ, McCarley RW, Petryshen TL  
*Schizophrenia Research* 2017 Oct 3. pii: S0920-9964(17)30586-8.  
doi: 10.1016/j.schres.2017.09.024

8. **Greater extracellular free water in first-episode psychosis predicts better neurocognitive functioning**  
Lyll AE, Pasternak O, Robinson DG, Newell D, **Trampush JW**, Gallego JA, Fava M, Malhotra AK, Karlsgodt KH, Kubicki M, Szeszko PR  
*Molecular Psychiatry* 2017 Mar 28  
doi: 10.1038/mp.2017.43
9. **GWAS meta-analysis reveals novel loci and genetic correlates for general cognitive function: A report from the COGENT consortium**  
**Trampush JW**, Lam M, Yu J, Knowles E, Davies G, Liewald DC, Starr JM, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, Mukherjee S, DeRosse P, Lundervold A, Steen VM, Espeseth T, Rääkkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Horan M, Chiba-Falek O, Attix DK, Need AC, Cirulli ET, Voineskos AN, Stefanis NC, Avramopoulos D, Hatzimanolis A, Arking DE, Smyrnis N, Bilder RM, Freimer NA, Cannon TD, London E, Poldrack RA, Sabb FW, Congdon E, Drabant-Conley E, Scult M, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri A, Weinberger DR, Pendleton N, Bitsios P, Rujescu D, Lahti J, Le Hellard S, Keller MC, Andreassen OA, Deary IJ, Glahn DC, Malhotra AK, Lencz T  
*Molecular Psychiatry* 2017; 22:336–345  
doi: 10.1038/mp.2016.244
10. **Relationship of cognition to clinical response in first-episode schizophrenia spectrum disorders**  
**Trampush JW**, Lencz T, DeRosse P, John M, Gallego JA, Petrides G, Hassoun Y, Zhang JP, Addington J, Kellner CH, Tohen M, Burdick KE, Goldberg TE, Kane JM, Robinson DG, Malhotra AK  
*Schizophrenia Bulletin* 2015; 41(6):1237-47  
doi: 10.1093/schbul/sbv120
11. **A common polymorphism in SCN2A predicts general cognitive ability through effects on prefrontal cortex physiology**  
Scult M, **Trampush JW**, Zheng F, Drabant-Conley E, Lencz T, Malhotra AK, Dickinson D, Weinberger DR, Hariri AR  
*Journal of Cognitive Neuroscience* 2015; 27(9):1766-74  
doi:10.1162/jocn\_a\_00826
12. **Independent evidence for an association between general cognitive ability and a genetic locus for educational attainment**  
**Trampush JW**, Lencz T, Knowles E, Davies G, Guha S, Pe'er I, Liewald DC, Starr JM, Djurovic S, Melle I, Sundet K, Christoforou A, Reinvang I, Mukherjee S, DeRosse P, Lundervold A, Steen VM, John M, Espeseth T, Rääkkönen K, Widen E, Palotie A, Eriksson JG, Giegling I, Konte B, Ikeda M, Roussos P, Giakoumaki S, Burdick KE, Payton A, Ollier W, Horan M, Scult M, Dickinson D, Straub RE, Donohoe G, Morris D, Corvin A, Gill M, Hariri A, Weinberger DR, Pendleton N, Iwata N, Darvasi A, Bitsios P, Rujescu D, Lahti J, Le Hellard S, Keller MC, Andreassen OA, Deary IJ, Glahn DC, Malhotra AK  
*American Journal of Medical Genetics Part B: Neuropsychiatric Genetics* 2015; 168B(5):363-73  
doi: 10.1002/ajmg.b.32319
13. **Mitochondrial DNA mutations and cognition: a case-series report**  
Incedy-Farkas G,\* **Trampush JW**,\* Perczel Forintos D, Beech D, Andrejkovics M, Varga Z, Remenyi V, Bereznai B, Gal A, Molnar MJ  
*Archives of Clinical Neuropsychology* 2014; 29(4):315-21  
doi: 10.1093/arclin/acu016  
\*Contributed equally, listed alphabetically
14. **Differential effects of common variants in SCN2A on general cognitive ability, brain physiology and mRNA expression in schizophrenia cases and controls**

Dickinson D, Straub RE, **Trampush JW**, Gao Y, Feng N, Xie B, Shin JH, Lim HK, Callicott JH, Bigos KL, Kolachana B, Hashimoto R, Takeda M, Rujescu D, Hyde TM, Berman KF, Kleinman JE, Weinberger DR  
*JAMA Psychiatry* 2014; 71(6):647-56  
doi: 10.1001/jamapsychiatry.2014.157

15. **Moderator effects of working memory on the stability of ADHD symptoms by dopamine receptor gene polymorphisms during development**

**Trampush JW**, Jacobs MM, Hurd YL, Newcorn JH, Halperin JM  
*Developmental Science* 2014; 17(4):584-95  
doi: 10.1111/desc.12131

16. **Association between variation in neuropsychological development and trajectory of ADHD severity in early childhood**

Rajendran K, \***Trampush JW**,\* Rindskopf D, Marks DJ, O'Neill S, Halperin JM  
*The American Journal of Psychiatry* 2013; 170(10):1205-11  
doi: 10.1176/appi.ajp.2012.12101360  
\*Contributed equally, listed alphabetically

17. **Effects of the BDNF Val66Met polymorphism on white matter microstructure in healthy adults**

Tost H, Alam T, Geramita M, Rebsch C, Kolachana B, Dickinson D, Verchinski BA, Lemaitre H, Barnett AS, **Trampush JW**, Weinberger DR, Marenco S  
*Neuropsychopharmacology* 2013; 38(3):525-32  
doi: 10.1038/npp.2012.214

18. **Perceptual and motor inhibition in adolescents/young adults with childhood-diagnosed ADHD**

Bédard AC, **Trampush JW**, Newcorn JH, Halperin JM  
*Neuropsychology* 2010; 24(4):424-34  
doi: 10.1037/a0018752

19. **The impact of childhood ADHD on dropping out of high school in urban adolescents/young adults**

**Trampush JW**, Miller CJ, Newcorn JH, Halperin JM  
*Journal of Attention Disorders* 2009; 13(2):127-36  
doi: 10.1177/1087054708323040

20. **Childhood maltreatment and conduct disorder: independent predictors of adolescent substance use disorders in youth with attention deficit/hyperactivity disorder**

De Sanctis VA, **Trampush JW**, Harty SC, Marks DJ, Newcorn JH, Miller CJ, Halperin JM  
*Journal of Clinical Child and Adolescent Psychology* 2008; 37(4):785-93  
doi: 10.1080/15374410802359650

21. **Neuropsychological outcome in adolescents/young adults with childhood ADHD: profiles of persisters, remitters and controls**

Halperin JM, **Trampush JW**, Miller CJ, Marks DJ, Newcorn JH  
*Journal of Child Psychology and Psychiatry* 2008; 49(9):958-66  
doi: 10.1111/j.1469-7610.2008.01926.x  
\*This paper was cited as a "must read" by Faculty of 1000 Medicine

22. **Family and cognitive factors: modeling risk for aggression in children with ADHD**

Miller CJ, Miller SR, **Trampush JW**, McKay KE, Newcorn JH, Halperin JM  
*Journal of the American Academy of Child and Adolescent Psychiatry* 2006; 45(3):355-63  
doi: 10.1097/01.chi.0000196424.80717.fc

23. **Catecholamine response to exercise in children with attention-deficit/hyperactivity disorder**

Wigal SB, Nemet D, Swanson JM, Regino R, **Trampush JW**, Ziegler MG, Cooper DM  
*Pediatric Research* 2003; 53(5):756-61  
doi:10.1203/01.PDR.0000061750.71168.23

**Currently under review**

1. **Longitudinal analyses of patterns of extended treatment with stimulant medication for ADHD: Effects on milestones of childhood and adolescence growth and on adult height**  
Swanson JM, Hanc T, **Trampush JW**, Stehli AN, Waxmonsky JG, Greenhill LL, Arnold LE, Elliott G, Wigal T, Pelham WE, Hinshaw SP, Hechtman L, Vitiello B, Molina BSG, Jensen PS, Newcorn JH, Epstein JN, Abikoff H, Wells K, Hoza B, Severe J, Lerner M, Kraemer HC, Bock RD, for the MTA Cooperative Group

### Book Chapters

1. **Attention deficit hyperactivity disorder in children and adolescents**  
Marks DJ, **Trampush JW**, Chacko A  
Donders J and Hunter SJ. (Eds.), *Principles and Practice of Lifespan Developmental Neuropsychology*. 2010. Cambridge University Press, United Kingdom

### RESEARCH SUPPORT

#### Current Research Support

R03 MH123787-01 Trampush (PI) 06/10/2020-06/09/2022

*GWAS of the RDoC Cognitive Systems Domain: Modeling the Latent Genetic Architecture of Working Memory*

This two-year study will use existing GWAS data from COGENT to investigate the latent molecular genetic architecture of working memory. Working memory is a core Construct of the RDoC Cognitive Systems Domain, defined as the active maintenance and flexible updating of goal/task relevant information in a form that has limited capacity and resists interference. Limited working memory capacity is a fundamental aspect of the cognitive impairments prevalent in many neuropsychiatric disorders. Most of the variability underlying differences in general working memory capacity can be traced back to inherited genetic factors. However, exactly how our DNA shapes the working memory system has yet to be established. As such, our objective is to identify the spectrum of genome-wide allelic variation underlying working memory – from individual loci to genes to polygenic risk scores to functional biological pathways – determined to be causal, not merely correlational, in relation to working memory performance.

Role: PI

#### Completed

2014/07/01-2016/06/30

L30 MH104879-01, National Institute of Mental Health (NIMH)

*Genetics of Cognition and Schizophrenia*

Role: PI

2006/02/01-2007/01/31

Graduate Research Grant, City University of New York

*Assessing the Phenotype of Childhood ADHD in Adolescence: Neuropsychological Functioning in Relation to Dopamine Genes*

Role: PI

#### Prior Co-Investigator

2014/07/01-2019/06/30

R01MH102313, National Institute of Mental Health (NIMH)

*2/3 Social Processes Initiative in Neurobiology of the Schizophrenia(s)-SPINS*

Role: Co-Investigator (10% effort)

2014/07/01-2018/06/30

R01MH102309, National Institute of Mental Health (NIMH)

*2/2 Pramipexole in Bipolar Disorder: Targeting Cognition (PRAM-BD)*

Role: Co-Investigator (10% effort)

### PRESENTATIONS & TALKS

- 2019 **Molecular Genetic Discoveries Underlying Cognitive Abilities in Health and Disease: Past, Present, and Future Directions**  
**Trampush JW**  
Della Martin Foundation Board of Directors  
Los Angeles, CA

**Deconstructing simple and choice decision and movement time in psychosis**

**Trampush JW**

Society of Biological Psychiatry, Annual Meeting  
Chicago, IL

**New molecular genetic discoveries underlying cognitive abilities in health and disease**

Society for Brain Mapping & Therapeutics, 16th Annual World Congress  
Los Angeles, CA

2018 **New molecular genetic discoveries underlying cognitive abilities in health and disease: from N=1 to N=1.1 million**

**Trampush JW**

USC Department of Psychology, Lecture in Clinical Science  
Los Angeles, CA

2017 **Molecular genetics of cognitive function in health and disease**

**Trampush JW**

USC Department of Psychiatry and the Behavioral Sciences, Grand Rounds  
Los Angeles, CA

2016 **Increase in extracellular free water in first-episode schizophrenia patients is related to improved cognitive outcomes**

Lyall AE, Pasternak O, Robinson DG, Newell D, **Trampush JW**, Gallego JA, Fava M, Malhotra AK, Karlsgodt KH, Szeszko PR, Kubicki M  
Schizophrenia International Research Society, Annual Meeting  
Florence, Italy

2014 **GWAS of cognitive abilities: overlap with schizophrenia**

**Trampush, JW**

Pharmacogenetics in Psychiatry, Annual Meeting  
Hollywood, FL

**New insights into the genetic correlates of cognition in schizophrenia**

**Trampush JW**

Department of Psychiatry, University of Milan  
Milan, Italy

**Annual meeting of the Cognitive Genomics Consortium (COGENT)**

Malhotra AK, Lencz T, **Trampush JW**

World Congress of Psychiatric Genetics, Annual Meeting  
Copenhagen, Denmark

2013 **New insights into the genetic correlates of cognition in schizophrenia**

**Trampush JW**

Winter Conference on Brain Research  
Breckenridge, CO

**Ion channel genes as keys to cognition and treatment response in psychosis**

Weinberger DR, Apud JA, **Trampush JW**, Berman KF, Bigos K, Zhang F, Dickinson D  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**Support for the association of SCN2A variants with cognition in schizophrenia from analyses of unaffected siblings, independent schizophrenia samples, and mRNA expression in brain**

Dickinson D, Straub RE, **Trampush JW**, Gao Y, Feng N, Bigos K, Kolachana B, Hashimoto R, Takeda M, Rujescu D, Hyde TM, Berman KF, Kleinman JE, Weinberger DR  
Society of Biological Psychiatry, Annual Meeting



San Francisco, CA

**Temporal expression of genes in the WNT pathway associated with cognition**

Karlsen AS, **Trampush JW**, Dickinson D, Weinberger DR, Ye T, Kleinman JE, Plath N, Hyde TM  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**Annual meeting of the Cognitive Genomics Consortiums (COGENT)**

Malhotra AK, Lencz T, **Trampush JW**  
World Congress of Psychiatric Genetics, Annual Meeting  
Boston, MA

2012 **Hierarchical pathway analysis of synaptic genes and cognition**

**Trampush JW**

Clinical Brain Disorders Branch of the National Institute of Mental Health, Branch Talk  
Bethesda, MD

**Whole-genome analysis of simplex schizophrenia families**

**Trampush JW**

Clinical Brain Disorders Branch of the National Institute of Mental Health, Branch Talk  
Bethesda, MD

2009 **Longitudinal modeling of neuropsychological and behavioral functioning in preschoolers at risk for ADHD**

Halperin JM, **Trampush JW**, Nomura Y, Marks DJ  
American Academy of Child and Adolescent Psychiatry, Annual Meeting  
Honolulu, HI

2008 **Working memory in a longitudinal sample of adolescents/adults diagnosed with ADHD in childhood**

Halperin JM, **Trampush JW**, Bédard AC  
American Academy of Child and Adolescent Psychiatry, Annual Meeting  
Chicago, IL

2005 **Adolescent outcome of childhood ADHD**

**Trampush JW**

Neuropsychology Research Day, Queens College  
Flushing, NY

2004 **An experimental model of dysplasticity secondary to neonatal manganese exposure: history and early findings**

Crinella FM, **Trampush JW**

Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities  
San Diego, CA

2003 **An experimental model of executive function deficit: effects of neonatal manganese intake on tissue mineral accumulation, striatal dopamine levels and neurocognitive status**

**Trampush JW**, Tran T, Chowanadisai W, Crinella FM

Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities  
Annapolis, MD

**CONFERENCE POSTERS**

2019 **GWAS of cognitive abilities and risk for substance abuse**

**Trampush JW** and COGENT

NIDA Genetics Consortium 2019 Meeting  
Rockville, MD

2015 **Genetics of education and cognition: a COGENT follow-up analysis of overlapping variants**

**Trampush JW** and COGENT

American College of Neuropsychopharmacology, Annual Meeting  
Phoenix, AZ

- 2014 **The Wnt pathway in schizophrenia: AXIN1 polymorphisms are associated with diagnosis, cognition, gene expression and DNA methylation**  
Karlsen AS, Hyde TM, Ursini G, Tao R, Jaffe A, **Trampush JW**, Shin JH, Parachikova A, Dickinson D, Weinberger DR, Plath N  
Society of Biological Psychiatry, Annual Meeting  
New York, NY

- 2013 **Paring down the schizophrenia genome by genome-wide analysis of multiple, large pedigree simplex families from the NIMH Sibling Study**  
**Trampush JW**, Rietcheck HR, Straub RE, Feng N, Kolachana B, Zhang F, Rujescu D, St. Clair D, Berman KF, Dickinson D, Weinberger DR  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**Higher-order factor analysis of personality dimensions does not support a simple extension of the "five-factor model" of typical personality to pathological personality**

Rodriguez-Vega N, **Trampush JW**, Berman KF, Weinberger DR, Dickinson D  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**Trajectory of neurocognition in first-episode schizophrenia**

**Trampush JW**, Robinson DG, Beech D, Reiter G, Lencz T, Kane JM, Malhotra AK, Goldberg TE  
American College of Neuropsychopharmacology, Annual Meeting  
Hollywood, FL

- 2012 **Scales for investigation of normal and pathological personality traits**  
**Trampush JW**, Weinberger DR, Dickinson D  
Society of Biological Psychiatry, Annual Meeting  
Philadelphia, PA

**The 'heritability' of intelligence in combined samples of community controls and people with schizophrenia**

Dickinson D, **Trampush JW**, Feng N, Kolachana B, Rujescu D, Straub RE, Weinberger DR  
American College of Neuropsychopharmacology, Annual Meeting  
Hollywood, FL

- 2011 **Genome-wide association analysis reveals that SCN2A, which encodes the alpha subunit in type II voltage-gated sodium channels, is associated with general cognitive ability in schizophrenia**  
Dickinson D, **Trampush JW**, Feng N, Li C, Vakkalanka R, Rujescu D, Weinberger DR, Straub RE  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**A genome-wide association analysis of personality dimensions in individuals with and without schizophrenia**

**Trampush JW**, Straub RE, Feng N, Li C, Vakkalanka R, Weinberger DR, Dickinson D  
Society of Biological Psychiatry, Annual Meeting  
San Francisco, CA

**Judging intermediate phenotypes for schizophrenia genetics analyses with reference to impairment, presence in unaffected siblings, familiarity, and illness-related attenuation of familiarity**

Dickinson D, **Trampush JW**, Weinberger DR  
Society for Neuroscience, Annual Meeting  
Washington, DC

- 2010 **Perceptual and motor inhibition in adolescents/young adults with childhood-diagnosed ADHD**  
Bédard AC, **Trampush JW**, Newcorn JH, Halperin JM  
International Neuropsychological Society, Annual Meeting  
Acapulco, Mexico
- 2009 **Brain activation during warning cues in attention-deficit/hyperactivity disorder**  
Halperin JM, Berwid OG, Schulz KP, Fan J, **Trampush JW**  
International Society for Research in Child and Adolescent Psychopathology, Annual Meeting  
Seattle, WA
- Increased internalizing and externalizing behaviors among youth with ADHD: evidence of DAT1 × DRD4 epistasis**  
Nomura Y, Bédard AC, Rajwan E, **Trampush JW**, Arima Y, Cook Jr. EH, Stein MA, Newcorn JH  
American Academy of Child and Adolescent Psychiatry, Annual Meeting  
Honolulu, HI
- 2008 **Interaction of working memory, COMT and the persistence of ADHD from childhood to adolescence/young adulthood**  
**Trampush JW**, Fossella JA, Brocki K, Halperin JM  
American Academy of Clinical Neuropsychology, Annual Meeting  
Boston, MA
- ADHD and psychiatric comorbidity in childhood: predictors of psychiatric outcome 10-years later**  
**Trampush JW**, Newcorn JH, Fresiello V, Nomura Y, Czarnecki R, Halperin JM  
American Academy of Child and Adolescent Psychiatry, Annual Meeting  
Chicago, IL
- Neurocognitive correlates of catechol-o-methyltransferase (COMT): assessing the tonic-phasic dopamine hypothesis in ADHD**  
**Trampush JW**, Fossella JA, Stern J, Halperin JM  
ADHD Molecular Genetics Network, Annual Meeting  
Sanibel, FL
- 2006 **Exploration of intermediate cognitive and behavioral phenotypes mediated by MAO-A genotype in ADHD**  
**Trampush JW**, Fossella JA, Marks DJ, Mann D, Newcorn JH, Halperin JM  
ADHD Molecular Genetics Network, Annual Meeting  
Brussels, Belgium
- 2004 **Risk factors associated with high school dropout**  
**Trampush JW**, Miller CJ, Busch TJ, Newcorn JH, Halperin JM  
American Academy of Child and Adolescent Psychiatry, Annual Meeting  
Washington, DC
- 2001 **The acute effects of exercise on EEG in children with attention-deficit hyperactivity disorder**  
**Trampush JW**, Regino R, Swanson JM, Wigal S, Cooper D  
UC Irvine College of Medicine Celebration of Research Poster Session  
Irvine, CA

#### **TEACHING EXPERIENCE**

- 2019 Guest lecturer, Department of Psychology, University of Southern California  
*Course:* Behavioral Genetics
- Guest lecturer, Department of Psychiatry, University of Southern California  
*Course:* PGY-3 Didactic Curriculum
- 2015 Guest lecturer, Department of Psychiatry, Zucker Hillside Hospital

*Course:* PGY-2 Didactic Curriculum

Guest lecturer, Department of Psychiatry, Zucker Hillside Hospital  
*Course:* PGY-2 Didactic Curriculum

2014 Guest lecturer, NYU Polytechnic School of Engineering  
*Course:* Career Development Series

## **OTHER EXPERIENCE**

### **Review Editor**

Frontiers in Genetics and Psychiatry: Behavioral and Psychiatric Genetics

### **Ad Hoc Reviewer**

American Journal of Medical Genetics Part B: Neuropsychiatric Genetics

Biological Psychiatry

Cortex

European Neuropsychopharmacology

Journal of the International Neuropsychological Society

Neuropsychologia

Proceedings of the National Academy of Sciences

Psychiatry Research

Psychological Assessment

Schizophrenia Bulletin

American Journal of Psychiatry

Clinical Neuropsychologist

### **Specialized Training and Courses**

Russell Sage Foundation Summer Institute in Social-Science Genomics, Santa Barbara, CA, 2017

Methods in Genetic Linkage and Association, SGDP, IoP, London, UK, 2006

Operating systems: Linux, Mac OS, Windows

Software packages: R, SPSS, HLM, Amos, Plink/Plink2, GCTA, Impute2, and many other statistical genetics programs

### **Professional Affiliations**

American Psychological Association (APA), Division 40 (Clinical Neuropsychology)

American Psychological Society (APS)

International Neuropsychological Society (INS)

ADHD Molecular Genetics Network

Society of Biological Psychiatry (SOBP)