Stanford

Joachim Hallmayer

Professor of Psychiatry and Behavioral Sciences (Child and Adolescent Psychiatry and Child Development), Emeritus

Psychiatry and Behavioral Sciences - Child & Adolescent Psychiatry and Child Development

NIH Biosketch available Online Curriculum Vitae available Online

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Professor Emeritus, Psychiatry and Behavioral Sciences - Child & Adolescent Psychiatry and Child Development
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Fellow of the German Research Association, Deutsche Forschungsgemeinschaft (German Research Foundation) (1989)
- Young Investor Award, National Alliance for Research on Schizophrenia and Depression (1991)
- Editorial Board, Pscychiatric Genetics (1994)
- Temporary Member, Genome Study Section Center for Scientific Review (2001-2002)
- Section Editor, Current Psychiatry Reports - Nonschizophrenic Psychotic Disorders (2001)

PROFESSIONAL EDUCATION

- Dr. med., University of Cologne, Germany , Medicine (1989)
- M.D., University of Cologne, Germany , Medicine (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Principal Investigator

Infrastructure to facilitate discovery of autism genes

The purpose of this project is to facilitate the discovery of the genes that contribute autism by maintaining an infrastructure which research groups studying the genetics of autism can work collaboratively. This will be

accomplished through workshops, a Virtual Private Network, and access to a database that includes phenotype and genotype data from all participating groups.

Principal Investigator

A California Population-Based Twin Study of Autism

This will address several fundamental questions: (1) What is the heritability of autism (2) What is the contribution of genetic factors to variation in symptom dimensions? (3) Is there a continuum between the quantitative neurocognitive traits and clinical disorder? (4) What proportion of the variance in the neurocognitive traits is accounted for by genetic and non-genetic factors?

Co-Investigator

Center for Integrating Ethics in Genetics Research(Cho)

The goal of this project is to serve as a center of excellence in neurogenetics research, to develop a national model for bench, to bedside research ethics consultation, and to provide training opportunity in biomedical ethics.

Co-Investigator

Gene, Brain and Behavior in Turner Syndrome(Reiss)

The primary objective of this project is to use advanced, multi-modal magnetic resonance imaging (MRI) techniques, analyses of X chromosome parent-of-origin and cognitive-behavioral assessment to elucidate the effects of monosomy and X-linked imprinting on neurodevelopment and neural function in a large cohort of young girls with Turner syndrome, pre-estrogen replacement.

Project Director

Project F: Genomic Analysis in narcolepsy cataplexy

The goal of the project is to locate genes outside the HLA region that influence susceptibility to narcolepsy. In order to localize these genes we will carry out a linkage and association study in the most extensive world-wide collection of DNAs from well-characterized patients with narcolepsy and their families.

Teaching

COURSES

2026-27

- Autism Spectrum Disorder: HUMBIO 164 (Aut)

2025-26

- Autism Spectrum Disorder: HUMBIO 164 (Aut)

2024-25

- Autism Spectrum Disorder: HUMBIO 164 (Aut)

2023-24

- Autism Spectrum Disorder: HUMBIO 164 (Aut)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Genetics (PhD Program)
- Neurosciences (PhD Program)

Publications

PUBLICATIONS

- **Factor Structure of the Sleep Disturbance Scale for Children in a Cohort of Youth With Autism.** *Autism research : official journal of the International Society for Autism Research*

  Baker, E. K., Spackman, E., Chetcuti, L., Richdale, A. L., Hallmayer, J., Gradisar, M., Hardan, A. Y., Uljarevic, M.

  2025

- **Sleep in Autism Spectrum Disorder: From Foundations to Frontiers.** *Journal of autism and developmental disorders*

  Hallmayer, J. F., O'Hara, R.

  2025

- **INNOVATIVE PHARMACOLOGICAL TRIALS TARGETING SLEEP DISTURBANCES IN AUTISM**

  Hardan, A. Y., Baker, E., Kawai, M., Taweesedt, T., Ishii, T., Phillips, J. M., O'Hara, R., Hallmayer, J. F.

  ELSEVIER SCIENCE INC.2025

- **Psychiatric disorders converge on common pathways but diverge in cellular context, spatial distribution, and directionality of genetic effects.** *medRxiv : the preprint server for health sciences*

  Engchuan, W., Shanta, O., Kumar, K., MacDonald, J. R., Thiruvahindrapuram, B., Hamdan, O., Klein, M., Maihofer, A., Guevara, J., Hong, O., Huguet, G., Sacks, M., Ahangari, et al

  2025

- **Gene dosage effects of 22q11.2 copy number variants on in-vivo measures of white matter axonal density and dispersion.** *bioRxiv : the preprint server for biology*

  Boen, R., Villalón-Reina, J. E., Kushan, L., O'Hora, K. P., Fung, H., Parker, N., Akkouh, I. A., Alnæs, D., O'Hara, R., Marzelli, M. J., Foland-Ross, L., Chick, C. F., Cotto, et al

  2025

- **Cell-type specific global reprogramming of the transcriptome and epigenome in induced neurons with the 16p11.2 neuropsychiatric CNVs.** *European journal of human genetics : EJHG*

  Ward, T. R., Qu, P. P., Leung, L. C., Zhou, B., Muench, K. L., Khechaduri, A., Plastini, M. J., Charlton, C. A., Pattni, R., Ho, S., Ho, M., Huang, Y., Zhou, et al

  2025

- **IMPLICATION OF COMPLEX STRUCTURAL GENOME VARIATION IN THE GENETIC ARCHITECTURE OF NEUROPSYCHIATRIC DISORDERS: INSIGHTS FROM HUMAN POPULATION ANALYSIS AND FROM POSTMORTEM BRAINS OF INDIVIDUALS WITH PSYCHIATRIC DISORDERS**

  Zhou, B., Arthur, J., Guo, H., Kim, T., Huang, Y., Pattni, R., Song, G., Palejev, D., Dohna, H., Roussos, P., Kundaje, A., Hallmayer, J., Snyder, et al

  ELSEVIER.2024: 93

- **LONG-READ RNA ISOFORM MAP OF THE HUMAN BRAIN (ISOHUB)**

  Lin, X., Hadas, Y., Hadjimichael, E., Li, L., Monte, E., Koornstra, E., Shieh, A., van Bakel, H., Snyder, M., Hallmayer, J., Wang, X., Liu, C., Urban, et al

  ELSEVIER.2024: 86

- **Resolving the 22q11.2 deletion using CTLR-Seq reveals chromosomal rearrangement mechanisms and individual variance in breakpoints.** *Proceedings of the National Academy of Sciences of the United States of America*

  Zhou, B., Purmann, C., Guo, H., Shin, G., Huang, Y., Pattni, R., Meng, Q., Greer, S. U., Roychowdhury, T., Wood, R. N., Ho, M., Dohna, H. Z., Abyzov, et al

  2024; 121 (31): e2322834121

- **Detection and analysis of complex structural variation in human genomes across populations and in brains of donors with psychiatric disorders** *Cell*

  Zhou, B., Arthur, J. G., Guo, H., et al

  2024; Published online September 30, 2024

- **Multimodal Exercise and Cognitive Training Program Improves Cognitive Function in Amnestic Mild Cognitive Impairment.** *The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry*

  Fairchild, J. K., Myers, J., Louras, P., Jo, B., McNerney, M. W., Hallmayer, J., Yesavage, J.

  2023

- **Mutations in human DNA methyltransferase DNMT1 induce specific genome-wide epigenomic and transcriptomic changes in neurodevelopment.** *Human molecular genetics*
  Davis, K. N., Qu, P. P., Ma, S., Lin, L., Plastini, M., Dahl, N., Plazzi, G., Pizza, F., O'Hara, R., Wong, W. H., Hallmayer, J., Mignot, E., Zhang, et al
  2023

- **A Twin Study of Altered White Matter Heritability in Youth With Autism Spectrum Disorder.** *Journal of the American Academy of Child and Adolescent Psychiatry*
  Hegarty, J. P., Monterrey, J. C., Tian, Q., Cleveland, S. C., Gong, X., Phillips, J. M., Wolke, O., McNab, J. A., Hallmayer, J., Reiss, A. L., Hardan, A. Y., Lazzeroni, L. C.
  2023

- **Narcolepsy risk loci outline role of T cell autoimmunity and infectious triggers in narcolepsy.** *Nature communications*
  Ollila, H. M., Sharon, E., Lin, L., Sinnott-Armstrong, N., Ambati, A., Yogeshwar, S. M., Hillary, R. P., Jolanki, O., Faraco, J., Einen, M., Luo, G., Zhang, J., Han, et al
  2023; 14 (1): 2709

- **Sleep architecture is associated with core symptom severity in autism spectrum disorder.** *Sleep*
  Kawai, M., Buck, C., Chick, C. F., Anker, L., Talbot, L., Schneider, L., Linkovski, O., Cotto, I., Parker-Fong, K., Phillips, J., Hardan, A., Hallmayer, J., O'Hara, et al
  2022

- **HUMAN IPSC MODELING OF NEUROPSYCHIATRIC DISORDER: FROM POLYGENICITY TO CONVERGENCE**
  Duan, J., Huckins, L., Hallmayer, J.
  ELSEVIER.2022: E33

- **Preparing the Next Generation of Academic Researchers During the Pandemic: Lessons from a National Mental Health Research Postdoctoral Fellowship.** *Academic psychiatry : the journal of the American Association of Directors of Psychiatric Residency Training and the Association for Academic Psychiatry*
  Hantke, N. C., Samarina, V., Hallmayer, J., Anker, L., O'Hara, R., Beaudreau, S. A.
  2022

- **Increased activation product of complement 4 protein in plasma of individuals with schizophrenia.** *Translational psychiatry*
  Kalinowski, A., Liliental, J., Anker, L. A., Linkovski, O., Culbertson, C., Hall, J. N., Pattni, R., Sabatti, C., Noordsy, D., Hallmayer, J. F., Mellins, E. D., Ballon, J. S., O'Hara, et al
  2021; 11 (1): 486

- **Genetic and demographic predisposing factors associated with pediatric sleepwalking in the Philadelphia Neurodevelopmental Cohort.** *Journal of the neurological sciences*
  Chiba, Y., Phillips, O. R., Takenoshita, S., Ollila, H. M., Hallmayer, J. F., Nishino, S., Singh, M. K.
  2021; 430: 119997

- **Effects of X Chromosome Monosomy and Genomic Imprinting on Observational Markers of Social Anxiety in Prepubertal Girls with Turner Syndrome.** *Journal of autism and developmental disorders*
  Hall, S. S., Riley, M. J., Weston, R. N., Lepage, J., Hong, D. S., Jo, B., Hallmayer, J., Reiss, A. L.
  2021

- **Brain health registry GenePool study: A novel approach to online genetics research.** *Alzheimer's & dementia (New York, N. Y.)*
  Fockler, J., Kwang, W., Ashford, M. T., Flenniken, D., Hwang, J., Truran, D., Mackin, R. S., Jin, C., O'Hara, R., Hallmayer, J. F., Yesavage, J. A., Weiner, M. W., Nosheny, et al
  2021; 7 (1): e12118

- **Genetic and environmental influences on structural brain measures in twins with autism spectrum disorder** *MOLECULAR PSYCHIATRY*
  Hegarty, J. P., Pegoraro, L. F. L., Lazzeroni, L. C., Raman, M. M., Hallmayer, J. F., Monterrey, J. C., Cleveland, S. C., Wolke, O. N., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
  2020; 25 (10): 2556–66

- **The 5-HTTLPR Long, not Short, Allele Predicts Two-year Longitudinal Increases in Cortisol and Declines in Verbal Memory in Older Adults.** *International journal of geriatric psychiatry*
  Hirst, R. B., Jordan, J. T., Miryam Schussler-Fiorenza Rose, S., Schneider, L., Kawai, M., Gould, C., Anker, L., Chick, C. F., Beaudreau, S., Hallmayer, J., O'Hara, R.
  2020

- **Integrated functional genomic analyses of Klinefelter and Turner syndromes reveal global network effects of altered X chromosome dosage.** *Proceedings of the National Academy of Sciences of the United States of America*
  Zhang, X., Hong, D., Ma, S., Ward, T., Ho, M., Pattni, R., Duren, Z., Stankov, A., Bade Shrestha, S., Hallmayer, J., Wong, W. H., Reiss, A. L., Urban, et al
  2020

- **Neuronal defects in a human cellular model of 22q11.2 deletion syndrome.** *Nature medicine*
  Khan, T. A., Revah, O. n., Gordon, A. n., Yoon, S. J., Krawisz, A. K., Goold, C. n., Sun, Y. n., Kim, C. H., Tian, Y. n., Li, M. Y., Schaepe, J. M., Ikeda, K. n., Amin, et al
  2020

- **Network Effects of the 15q13.3 Microdeletion on the Transcriptome and Epigenome in Human-Induced Neurons.** *Biological psychiatry*
  Zhang, S. n., Zhang, X. n., Purmann, C. n., Ma, S. n., Shrestha, A. n., Davis, K. N., Ho, M. n., Huang, Y. n., Pattni, R. n., Wong, W. H., Bernstein, J. A., Hallmayer, J. n., Urban, et al
  2020

- **Glucocorticoid regulation and neuroanatomy in fragile x syndrome** *Journal of Psychiatric Research*
  Bruno, J. L., Hong, D. S., Lightbody, A. A., Hosseini, S., Hallmayer, J., Reiss, A. L.
  2020

- **Sleep-wake disorders in Alzheimer's disease: further genetic analyses in relation to objective sleep measures.** *International psychogeriatrics*
  Yesavage, J. A., Noda, A., Heath, A., McNerney, M. W., Domingue, B. W., Hernandez, Y., Benson, G., Hallmayer, J., O'Hara, R., Williams, L. M., Goldstein-Piekarski, A. N., Zeitzer, J. M., Fairchild, et al
  2019: 1–7

- **Genetic and environmental influences on corticostriatal circuits in twins with autism** *Journal of psychiatry & neuroscience : JPN*
  Hegarty II, J. P., Lazzeroni, L. C., Raman, M. M., Hallmayer, J. F., Cleveland, S. C., Wolke, O. N., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
  2019; 44 (6): 190030

- **COMPARATIVE FUNCTIONAL GENOMICS ANALYSES OF THE 16P11.2 DELETION AND DUPLICATION CNVS IN A HUMAN IPSC-TO-INDUCED NEURON MODEL**
  Zhang, X., Thomas, W., Leung, L., Zhou, B., Muench, K., Plastini, M., Pattni, R., Ho, S., Ho, M., Huang, Y., Hallmayer, J., Mourrain, P., Palmer, et al
  ELSEVIER.2019: S66

- **INTEGRATED ANALYSIS OF GENE EXPRESSION, DNA METHYLATION AND CHROMATIN ACCESSIBILITY IN A HUMAN IPSC-TO-INDUCED-NEURON MODEL OF THE 15Q13.3 MICRODELETION**
  Zhang, S., Zhang, X., Ma, S., Purmann, C., Davis, K., Wong, W., Bernstein, J., Hallmayer, J., Urban, A.
  ELSEVIER.2019: S105

- **Beyond a Binary Classification of Sex: An Examination of Brain Sex Differentiation, Psychopathology, and Genotype** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
  Phillips, O. R., Onopa, A. K., Hsu, V., Ollila, H., Hillary, R., Hallmayer, J., Gotlib, I. H., Taylor, J., Mackey, L., Singh, M. K.
  2019; 58 (8): 787–98

- **Rediscovering an old friend: a role for insulin growth factor-2 in reducing neurodegeneration, decreasing amyloid beta, and improving memory** *INTERNATIONAL PSYCHOGERIATRICS*
  O'Hara, R., Hallmayer, J.
  2019; 31 (7): 925–27

- **Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder** *SCIENCE TRANSLATIONAL MEDICINE*
  Etkin, A., Maron-Katz, A., Wu, W., Fonzo, G. A., Huemer, J., Vertes, P. E., Patenaude, B., Richiardi, J., Goodkind, M. S., Keller, C. J., Ramos-Cejudo, J., Zaiko, Y., Peng, et al
  2019; 11 (486)

- **Using fMRI connectivity to define a treatment-resistant form of post-traumatic stress disorder.** *Science translational medicine*
  Etkin, A., Maron-Katz, A., Wu, W., Fonzo, G. A., Huemer, J., Vertes, P. E., Patenaude, B., Richiardi, J., Goodkind, M. S., Keller, C. J., Ramos-Cejudo, J., Zaiko, Y. V., Peng, et al
  2019; 11 (486)

- **Genetic and environmental influences on structural brain measures in twins with autism spectrum disorder.** *Molecular psychiatry*

Hegarty, J. P., Pegoraro, L. F., Lazzeroni, L. C., Raman, M. M., Hallmayer, J. F., Monterrey, J. C., Cleveland, S. C., Wolke, O. N., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
2019

- **Genetic and environmental influences on cortico-striatal circuits in twins with autism.** *Genetic and environmental influences on cortico-striatal circuits in twins with autism.*
  Hegarty, J. P., Lazzeroni, L. C., Raman, M. M., Hallmayer, J. C., Cleveland, S. C., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
  2019

- **Genetic and Environmental Influences on Lobar Brain Structures in Twins With Autism.** *Cerebral cortex (New York, N.Y. : 1991)*
  Hegarty, J. P., Lazzeroni, L. C., Raman, M. M., Pegoraro, L. F., Monterrey, J. C., Cleveland, S. C., Hallmayer, J. F., Wolke, O. N., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
  2019

- **Brain Development in School-Age and Adolescent Girls: Effects of Turner Syndrome, Estrogen Therapy, and Genomic Imprinting.** *Biological psychiatry*
  O'Donoghue, S. n., Green, T. n., Ross, J. L., Hallmayer, J. n., Lin, X. n., Jo, B. n., Huffman, L. C., Hong, D. S., Reiss, A. L.
  2019

- **ANALYZING THE MOLECULAR NETWORK EFFECTS OF LARGE NEUROPSYCHIATRIC CNVS WITH IPSC BASED NEURONAL TISSUE CULTURE MODELS**
  Purmann, C., Ma, S., Zhang, S., Ward, T., Huang, E., Pattni, R., Hallmayer, J., Wong, W., Urban, A.
  ELSEVIER.2019: 1060

- **IPSCS - A PLATFORM TO STUDY AUTISM SPECTRUM DISORDER**
  Hallmayer, J., Bernstein, J., O'Hara, R., Pasca, S.
  ELSEVIER SCIENCE BV.2019: S764–S765

- **Beyond a Binary Classification of Sex: An Examination of Brain Sex Differentiation, Psychopathology, and Genotype.** *Journal of the American Academy of Child and Adolescent Psychiatry*
  Phillips, O. R., Onopa, A. K., Hsu, V., Ollila, H. M., Hillary, R. P., Hallmayer, J., Gotlib, I. H., Taylor, J., Mackey, L., Singh, M. K.
  2018

- **Serotonin transporter polymorphism, depressive symptoms, and emotional impulsivity among advanced breast cancer patients** *SUPPORTIVE CARE IN CANCER*
  Kim, Y., Carver, C. S., Hallmayer, J. F., Zeitzer, J. M., Palesh, O., Neri, E., Nouriani, B., Spiegel, D.
  2018; 26 (4): 1181–88

- **Integration of neural and epigenetic contributions to posttraumatic stress symptoms: The role of hippocampal volume and glucocorticoid receptor gene methylation** *PLOS ONE*
  McNerney, M., Sheng, T., Nechvatal, J. M., Lee, A. G., Lyons, D. M., Soman, S., Liao, C., O'Hara, R., Hallmayer, J., Taylor, J., Ashford, J., Yesavage, J., Adamson, et al
  2018; 13 (2): e0192222

- **Corticotropin-releasing factor 1 receptor haplotype and cognitive features of major depression.** *Translational psychiatry*
  Davis, E. G., Keller, J. n., Hallmayer, J. n., Pankow, H. R., Murphy, G. M., Gotlib, I. H., Schatzberg, A. F.
  2018; 8 (1): 5

- **Anomalous prefrontal-limbic activation and connectivity in youth at high risk for bipolar disorder** *JOURNAL OF AFFECTIVE DISORDERS*
  Chang, K., Garrett, A., Kelley, R., Howe, M., Sanders, E., Acquaye, T., Bararpour, L., Li, S., Singh, M., Jo, B., Hallmayer, J., Reiss, A.
  2017; 222: 7–13

- **Polygenic transmission disequilibrium confirms that common and rare variation act additively to create risk for autism spectrum disorders** *NATURE GENETICS*
  Weiner, D. J., Wigdor, E. M., Ripke, S., Walters, R. K., Kosmicki, J. A., Grove, J., Samocha, K. E., Goldstein, J. I., Okbay, A., Bybjerg-Grauholm, J., Werge, T., Hougaard, D. M., Taylor, et al
  2017; 49 (7): 978-+

- **Assembly of functionally integrated human forebrain spheroids** *NATURE*
  Birey, F., Andersen, J., Makinson, C. D., Islam, S., Wei, W., Huber, N., Fan, H. C., Metzler, K. R., Panagiotakos, G., Thom, N., O'Rourke, N. A., Steinmetz, L. M., Bernstein, et al

2017; 545 (7652): 54-?

- **Characterizing regression in Phelan McDermid Syndrome (22q13 deletion syndrome).** *Journal of psychiatric research*
  Reierson, G., Bernstein, J., Froehlich-Santino, W., Urban, A., Purmann, C., Berquist, S., Jordan, J., O'Hara, R., Hallmayer, J.
  2017; 91: 139-144

- **Autism genetics: opportunities and challenges for clinical translation.** *Nature reviews. Genetics*
  Vorstman, J. A., Parr, J. R., Moreno-De-Luca, D., Anney, R. J., Nurnberger, J. I., Hallmayer, J. F.
  2017

- **Whole genome sequencing resource identifies 18 new candidate genes for autism spectrum disorder.** *Nature neuroscience*
  C Yuen, R. K., Merico, D., Bookman, M., L Howe, J., Thiruvahindrapuram, B., Patel, R. V., Whitney, J., Deflaux, N., Bingham, J., Wang, Z., Pellecchia, G., Buchanan, J. A., Walker, et al
  2017

- **Sleep Disturbances in Individuals With Phelan-McDermid Syndrome: Correlation With Caregivers' Sleep Quality and Daytime Functioning** *SLEEP*
  Bro, D., O'Hara, R., Primeau, M., Hanson-Kahn, A., Hallmayer, J., Bernstein, J. A.
  2017; 40 (2)

- **Incidental brain MRI findings in an autism twin study.** *Autism research*
  Monterrey, J. C., Philips, J., Cleveland, S., Tanaka, S., Barnes, P., Hallmayer, J. F., Reiss, A. L., Lazzeroni, L. C., Hardan, A. Y.
  2017; 10 (1): 113-120

- **A proton MR spectroscopy study of the thalamus in twins with autism spectrum disorder.** *Progress in neuro-psychopharmacology & biological psychiatry*
  Hegarty, J. P., Gu, M. n., Spielman, D. M., Cleveland, S. C., Hallmayer, J. F., Lazzeroni, L. C., Raman, M. M., Frazier, T. W., Phillips, J. M., Reiss, A. L., Hardan, A. Y.
  2017

- **Individuals with Autism Spectrum Disorders Have Equal Success Rate But Require Longer Periods of Systematic Desensitization than Control Patients to Complete Ambulatory Polysomnography** *JOURNAL OF CLINICAL SLEEP MEDICINE*
  Primeau, M., Gershon, A., Talbot, L., Cotto, I., Lotspeich, L., Hardan, A., Hallmayer, J., O'Hara, R.
  2016; 12 (3): 357-362

- **A deleterious Nav1.1 mutation selectively impairs telencephalic inhibitory neurons derived from Dravet Syndrome patients.** *eLife*
  Sun, Y., Pasca, S. P., Portmann, T., Goold, C., Worringer, K. A., Guan, W., Chan, K. C., Gai, H., Vogt, D., Chen, Y. J., Mao, R., Chan, K., Rubenstein, et al
  2016; 5

- **Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders.** *Cell systems*
  Li, J., Ma, Z., Shi, M., Malty, R. H., Aoki, H., Minic, Z., Phanse, S., Jin, K., Wall, D. P., Zhang, Z., Urban, A. E., Hallmayer, J., Babu, et al
  2015; 1 (5): 361-374

- **Identification of Human Neuronal Protein Complexes Reveals Biochemical Activities and Convergent Mechanisms of Action in Autism Spectrum Disorders** *CELL SYSTEMS*
  Li, J., Ma, Z., Shi, M., Malty, R. H., Aoki, H., Minic, Z., Phanse, S., Jin, K., Wall, D. P., Zhang, Z., Urban, A. E., Hallmayer, J., Babu, et al
  2015; 1 (5): 361-374

- **Impact of 5-HTTLPR on hippocampal subregional activation in older adults** *TRANSLATIONAL PSYCHIATRY*
  Garrett, A., Gupta, S., Reiss, A. L., Waring, J., Sudheimer, K., Anker, L., Sosa, N., Hallmayer, J. F., O'Hara, R.
  2015; 5

- **Impact of 5-HTTLPR on hippocampal subregional activation in older adults.** *Translational psychiatry*
  Garrett, A., Gupta, S., Reiss, A. L., Waring, J., Sudheimer, K., Anker, L., Sosa, N., Hallmayer, J. F., O'Hara, R.
  2015; 5: e639

- **Association of Anxiety Symptoms in Offspring of Bipolar Parents with Serotonin Transporter-Linked Polymorphic Region (5-HTTLPR) Genotype** *JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY*
  Park, M., Sanders, E., Howe, M., Singh, M., Hallmayer, J., Kim, E., Chang, K.

2015; 25 (6): 458-466

- **Telomere length and cortisol reactivity in children of depressed mothers.** *Molecular psychiatry*
  Gotlib, I. H., LeMoult, J., Colich, N. L., Foland-Ross, L. C., Hallmayer, J., Joormann, J., Lin, J., Wolkowitz, O. M.
  2015; 20 (5): 615-620

- **Psychiatric genome-wide association study analyses implicate neuronal, immune and histone pathways** *NATURE NEUROSCIENCE*
  O'Dushlaine, C., Rossin, L., Lee, P. H., Duncan, L., Parikshak, N. N., Newhouse, S., Ripke, S., Neale, B. M., Purcell, S. M., Posthuma, D., Nurnberger, J. I., Lee, S. H., Faraone, et al
  2015; 18 (2): 199-209

- **Preliminary study of anxiety symptoms, family dysfunction, and the brain-derived neurotrophic factor (BDNF) Val66Met genotype in offspring of parents with bipolar disorder.** *Journal of psychiatric research*
  Park, M., Chang, K. D., Hallmayer, J., Howe, M. E., Kim, E., Hong, S. C., Singh, M. K.
  2015; 61: 81-88

- **Individuals with Autism Spectrum Disorders Have Equal Success Rate But Require Longer Periods of Systematic Desensitization than Control Patients to Complete Ambulatory Polysomnography.** *Journal of clinical sleep medicine*
  Primeau, M., Gershon, A., Talbot, L., Cotto, I., Lotspeich, L., Hardan, A., Hallmayer, J., O'Hara, R.
  2015; 12 (3): 357-362

- **Connectivity Underlying Emotion Conflict Regulation in Older Adults with 5-HTTLPR Short Allele: A Preliminary Investigation.** *American journal of geriatric psychiatry*
  Waring, J. D., Etkin, A., Hallmayer, J. F., O'Hara, R.
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