

Program, The Neurobiology of Mental Health 2026

Sunday, May 17th arrival, 18:30 Buffet dinner at Seepark hotel

Monday, May 18th

8:55-9:00 Opening remarks

9:00-9:35 **J. Gleeson** (UCSD) Developmental processes in pediatric brain disease

9:35-10:10 **P. Vanderhaeghen** (Leuven) Linking mechanisms of neuronal development with human brain evolution and diseases

10:10-10:45 **T. Nowakowski** (UCSF) Dissecting cellular and molecular mechanisms of human brain development and psychiatric disorders

10:45-11:15 coffee

11:15-11:50 **S. McCarroll** (Harvard) A system-wide neuroglial activities program

11:50-12:05 *Alyssa Lawler (Broad) Convergent altered stress responses in multiple models of schizophrenia risk gene knockout*

12:05-12:40 **A. Schaefer** (MPI Köln) The operational principles of neuron-microglia circuits

12:45-14:45 lunch, break

14:45-15:20 **H. Zeng** (Allen Institute) Cell type-specific transcriptomic signatures of behavioral and psychoactive states

15:20-15:35 *Laramie Duncan (Stanford) Specific cell types underlie complex brain disorders*

15:35-15:50 *Roberto Ballarino (Karolinska) Alternative splicing programs encode cell-type-specific developmental trajectories in the brain*

15:50-16:25 **G. Konopka** (UCLA) Cellular resolution multi-omics of white matter tracts in ASD

16:25-17:00 coffee

17:00-17:35 **M. State** (UCSF) The ARIA (Aligning Research to Impact Autism) initiative: leveraging genomics and human neuroscience to accelerate clinical translation in ASD

17:35-18:10 **R. Malenka** (Stanford) Innovations in therapeutic development: from mouse to man

18:10-18:25 *Fatih Yanik (ETHZ) Non-invasive hyper-efficient focal drug/RNA delivery to brain*

18:30-20:00 dinner

20:00 Poster session 1

Tuesday, May 19th

9:00-9:35 **E. Robinson** (Broad) Autism genetics update

9:35-9:50 *Rebecca Andersen (Childrens Harvard) Transcriptomic convergence and the female protective effect in autism*

9:50-10:05 *Helen Willsey (UCSF) Convergence of autism proteins at the cilium*

10:05-10:30 coffee

10:30-11:05 **G. Keller** (FMI Basel) The control limit hypothesis of schizophrenia

11:05-11:40 **J. Gordon** (NYSPI) The role of the mPFC and its input in working memory: translational implications

11:40-12:15 **K. Burdick** (Columbia) Neurocognition in Bipolar Disorder: From Clinical Phenotype to Mechanistic Targets

12:30-14:15 lunch, break

14:15-14:50 **I. Witten** (Princeton) Competing learning processes in the development of stress susceptibility and resilience

14:50-15:05 *Huan Ma (Zhejiang) Astrocytic activity-structure gating links stress to affective vulnerability*

15:05-15:20 *Tony Liu (Stanford) Conserved brain-wide emergence of emotional response from sensory experience in humans and mice*

15:20-15:35 *Nicole Rust (UPenn) The representation of mood in the primate anterior insula*

15:35-16:10 **B. Li** (Westlake) Dissecting the neural circuitry underlying motivated behavior & metabolic regulation

16:10-16:25 *Hao Li (Northwestern) Thalamo-amygdala neurotensin release regulates reward-seeking decision under risk*

16:25-17:00 coffee

17:00-17:35 **D. Geschwind** (UCLA) Translating the autism genome through high-throughput iPSC phenotyping and genomics: toward precision therapeutics

17:35-18:10 **H. Won** (Chapel Hill) Regulatory architecture underlying pleiotropy in psychiatric disorders

18:10-18:25 *Till Andlauer (Boehringer-Ingelheim) Analysis of multi-omics data using graph neural networks identifies novel schizophrenia genes*

18:30-20:00 dinner

20:00 Poster session 2

Wednesday, May 20th

9:00-9:35 **W. Hong** (UCLA) The neuroscience of prosocial behavior: from helping and cooperation to social AI

9:35-10:10 **Z. Williams** (Harvard) Studying language and social behavior across species at a single-cellular scale

10:10-10:45 coffee

10:45-11:20 **S. Pasca** (Stanford) Constructing and deconstructing the human nervous system to study development and disease

11:20-11:55 **L. Studer** (Sloan Kettering) Capturing features of neuropsychiatric disease in human pluripotent stem cells

11:55-12:10 *Bingqing He (Gothenburg Univ.) Convergent mechanisms of schizophrenia: insights from stem cells and transcriptomics*

12:30-15:00 lunch, break

15:00-15:35 **H. Hu** (Zhejiang Univ.) A shared circuit mechanism for rapid antidepressant action: convergence of ketamine and psilocybin

15:35-15:50 *Hermany Munguba (UCL) Molecular and circuit mechanisms triggering ketamine's antidepressant effects*

15:50-16:05 *Patricia Molina (Univ. Lausanne) Neuronal dynamics underlying depressive-like states*

16:05-16:20 *Emmanuel Darcq (Univ. Strasbourg) Habenular control of emotion and motivation: implications for mental health*

16:20-17:00 coffee

17:00-17:35 **C. Walsh** (Harvard) Evolving somatic mosaicism during early brain development and in neuropsychiatric disease

17:35-18:10 **S. Sanders** (Oxford) From genes, to neurobiology, to genetic medicines in neurodevelopmental disorders

18:30-20:00 dinner, posters

20:00 Posters

Thursday, May 21st

8:30-9:05 **A. Molofsky** (UCSF) The extracellular matrix in the formation of specific memories

9:05-9:40 **S. Russo** (Icahn) Neuroimmune mechanisms of stress and depression

9:40-10:15 coffee

10:15-10:50 **C. Liston** (Cornell) Probing and rescuing dysfunctional brain circuits in depression

10:50-11:25 **K. Scangos** (U. Penn) Identifying and modulating brain states in psychiatric disease

11:25-11:40 *Michael Gongwer (UCLA) Cell type-specific mechanisms underlying the rapid antidepressant effects of TMS*

12:00 lunch, departure