

SCHEDULE - DETAILED VIEW

2025 SOBP Annual Meeting

WEDNESDAY, APRIL 23

SOBP Council Meeting (Invite Only)

Wed 10:30 AM - 4:30 PM • Elgin

New Member & Travel Awardee Reception (In Person Only)

Wed 5 PM - 6 PM • City Hall

Year 2 & 3 Travel Award Reception (In Person Only)

Wed 6 PM - 7 PM • City Hall

THURSDAY, APRIL 24

Speaker Ready Room

Thu 7 AM - 5 PM • Planner Office

Registration

Thu 7 AM - 7:30 PM

Continental Breakfast

Thu 8 AM - 9 AM • Grand Ballroom Foyer

Meal Seating

Thu 8 AM - 5 PM • Grand Ballroom East

Lactation Room

Thu 8 AM - 7 PM • Peel

KiddieCorp

Thu 8 AM - 8 PM • Maple

Welcome Plenary

Thu 9 AM - 11:10 AM • Grand Ballroom West & Centre

The Orbitofrontal Cortex, Emotion, and Their Disorders including Depression

Thu 9 AM - 11:10 AM • Plenary

Edmund Rolls, D.Phil., D.Sc., M.A. *Presenter*

University of Warwick, UK

Edmund T. Rolls is at the Oxford Centre for Computational Neuroscience, Oxford, UK, and at the Department of Computer Science, University of Warwick, UK, where he is a Professor in Computational Neuroscience.

Edmund T. Rolls is a neuroscientist with research interests in computational neuroscience, including the operation of real neuronal networks in the brain involved in vision, memory, attention, and decision-making; functional neuroimaging of vision, taste, olfaction, feeding, the control of appetite, memory, and emotion; neurological disorders of emotion; psychiatric disorders including depression, schizophrenia and autism; and the brain processes underlying consciousness. These studies include investigations in patients, and are performed with the aim of contributing to understanding the human brain in health and disease, and of treating its disorders. He has published more than 680 full length research papers on these topics, which are shown, with many .pdfs available including some of his books, at <https://www.oxcns.org>.

Brain Initiative: Decoding Brain State

Thu 9 AM - 11:10 AM • Plenary

Miyoung Chun, Ph.D. *Presenter*

The Picower Institute for Learning and Memory, MIT

Dr. Miyoung Chun is the executive director of MIT's Alzheimer's Innovation Hub and co-founder of Alzheimer's X. Prior to her current positions, she has served in leadership roles in higher education, the biotechnology industry, and philanthropy. As a professor of biochemistry at BU School of Medicine, she taught and researched cell biology and molecular medicine. As a scientist at Millennium Pharmaceuticals (now Takeda Oncology), her functional genomics and molecular imaging research led to 33 patents.

From 2007 to 2017, Dr. Chun was executive VP at the Kavli Foundation where she managed a network of 20 world-class research institutes from the U.S., Europe, and Asia; shaped and directed a suite of interdisciplinary scientific meetings programs around the world; and spearheaded and grew national initiatives and global projects from concept to completion including the U.S. BRAIN Initiative, the International Brain Project, The HUMAN Project, and the United Microbiome Initiative.

She holds Ph.D. in molecular genetics from The Ohio State University and was a Life Sciences Research Foundation post-doctoral fellow at MIT, the Whitehead Institute.

Decoding Brain States

Thu 9 AM - 11:10 AM • Plenary

Toru Takumi, M.D., Ph.D. *Presenter*

Kobe University School of Medicine

Lunch

Thu 11:10 AM - 12:45 PM • Grand Ballroom Foyer

Women's Lunch and Learn

Thu 11:45 AM - 12:45 PM • Grand Ballroom West & Centre

Neuroscience for Prime Time

Not eligible for CE Credit

Thu 1 PM - 3 PM

Concurrent Symposia

Thu 1 PM - 3 PM

The Traces of Trauma: Advances in Understanding the Neural Basis of Threat Memory

Thu 1 PM - 3 PM • Symposia

Andrew Holmes, Ph.D. *Chair*

NIAAA

1 PM - 1:10 PM

Sheena Josselyn, Ph.D. *Co-Chair*

Hospital for Sick Children/University of Toronto

Sheena Josselyn, Ph.D. *Presenter*

Hospital for Sick Children/University of Toronto

Acute Stress via Retrograde Endocannabinoid Signaling in the Lateral Amygdala Disrupts Engram Ensemble Specificity to Generalize Threat Memory in Mice

1:10 PM - 1:35 PM

Gisella Vetere, Ph.D. *Presenter*

ESPCI PSL Paris

Prefrontal Cortex Dynamics for Threat Detection and Fear Representation

2 PM - 2:25 PM

Satoshi Kida, Ph.D. *Presenter*

The University of Tokyo

Molecular and Cellular Mechanisms of PTSD

1:35 PM - 2 PM

Jessie Muir, Ph.D. *Presenter*

Princeton University

Isolation of Psychedelic Responsive Neurons Underlying Anxiolytic Behavioral States

2:25 PM - 2:50 PM

Sex and Biological Psychiatry: New Perspectives From Crossing Species and Brain Scales

Thu 1 PM - 3 PM • Symposia

Armin Raznahan, MD PhD *Chair*

NIMH NIH

1 PM - 1:10 PM

Armin Raznahan, MD PhD *Presenter*

NIMH NIH

Sex Differences in the Human Brain: from MRI to Single Nucleus Transcriptomics

1:10 PM - 1:35 PM

Marija Kundakovic, Ph.D. *Presenter*

Department of Biological Sciences, Fordham University

Single-Cell Insights Into Gene Regulation in the Mouse Brain Across the Estrous Cycle and Sex

1:35 PM - 2 PM

Jason Lerch, Ph.D. *Presenter*

University of Oxford

Expanding the Map of Sex-Biased Brain Organization in Mice

2 PM - 2:25 PM

Elvisha Dhamala, Ph.D. *Presenter*

Feinstein Institutes for Medical Research

The Roles of Sex and Gender in the Neural Basis of Psychotic-Like Experiences in Youth

2:25 PM - 2:50 PM

The Highs and Lows of Cannabis: A Critical Reflection

Thu 1 PM - 3 PM • Symposia

Emese Kroon, Ph.D. *Chair*

Erasmus University Rotterdam

1 PM - 1:10 PM

Janna Cousijn, Ph.D. *Co-Chair*

Erasmus University Rotterdam

Natania Crane, Ph.D. *Presenter*

University of Illinois at Chicago

Δ 9-Tetrahydrocannabinol Impacts Frontolimbic Resting State Connectivity and Associations With Negative Affect Among Young Adults Who Use Cannabis

1:10 PM - 1:35 PM

Will Lawn, B.A., M.A., Ph.D. *Presenter*

King's College London

Long-Term Cannabis Use in Adolescence: Exploring Its Associations with Neurocognitive Function and Mental Health in the Cannteen Study

I am interested in a wide range of topics relating to addiction, recreational drug use and psychopharmacology. My active research areas are: adolescent cannabis use disorder, medical cannabinoid products, technology that can detect and respond to opioid overdose, and the use of ketamine in the treatment of addiction.

1:35 PM - 2 PM

Emese Kroon, Ph.D. *Presenter*

Erasmus University Rotterdam

Perceived Harms and Benefits: How Cannabis Attitudes Affect the Brain Processes Underlying Cannabis Use Disorder

2 PM - 2:25 PM

Staci Gruber, Ph.D. *Presenter*

McLean Hospital - Harvard Medical School

Budding Benefits? Assessing the Impact of Medical Cannabis Use Over Time

2:25 PM - 2:50 PM

Computational Model Based Approaches to Understanding EEG and Behavior in Psychotic and Mood Disorders

Thu 1 PM - 3 PM • Symposia

Cameron Carter, M.D. *Chair*

UC Irvine

1 PM - 1:10 PM

Deanna Barch, Ph.D. *Co-Chair*

Washington University

Molly Erickson, Ph.D. *Presenter*

The University of Chicago

Isolating Aspects of Cognitive Control Impairment in People With Schizophrenia

1:10 PM - 1:35 PM

Nadja Ging-Jehli, Ph.D. *Presenter*

Brown University

Dissecting Neurocomputational Mechanisms of Impaired Instrumental Learning Across Psychopathologies Using Integrative Model-Based EEG Phenotyping

1:35 PM - 2 PM

Laura A. Bustamante, Ph.D. *Presenter*

Washington University in St. Louis

Associations Between Working Memory Contributions to Reinforcement Learning and Mental Health Phenotypes in a Representative Online Hypothesis-Generating Sample

I am a postdoctoral fellow at Washington University in St. Louis working with Dr. Deanna Barch. I completed my Ph.D. at Princeton Neuroscience Institute advised by Dr. Jonathan D. Cohen, Dr. Nathaniel D. Daw, and Dr. Amitai Shenhav.

2 PM - 2:25 PM

Philip Corlett, Ph.D. *Presenter*

Yale

Speech Processing Performance Relates Expectations to Auditory Verbal Hallucinations in People With Schizophrenia

2:25 PM - 2:50 PM

Leveraging Inter-Individual Differences to Improve Clinical Outcomes in Major Depression, Alzheimer's Disease and Substance Use Disorder: Progress in Precision Psychiatry

Thu 1 PM - 3 PM • Symposia

Peter Zhukovsky, Ph.D. *Chair*

Centre for Addiction and Mental Health, University of Toronto

BA, University of Cambridge

PhD, University of Cambridge

Postdoctoral Fellowship, Centre for Addiction and Mental Health

Postdoctoral Fellowship, McLean Hospital, Harvard Medical School

Independent Scientist, Centre for Addiction and Mental Health

1 PM - 1:10 PM

Amy Kuceyeski, Ph.D. *Co-Chair*

Weill Cornell Medicine

Amy Kuceyeski, Ph.D. *Presenter*

Weill Cornell Medicine

Sex-Specific Differences in Brain Activity Dynamics of Youth With a Family History of Substance Use Disorder

1:10 PM - 1:35 PM

Liisa Galea, Ph.D. *Presenter*

Dept. of Psychiatry, Univ. of Toronto; Centre for Addiction and Mental Health

Using a Sex-specific Lens to inform on Cognitive Aging and Alzheimers Risk

1:35 PM - 2 PM

Peter Zhukovsky, Ph.D. *Presenter*

Centre for Addiction and Mental Health, University of Toronto

Brain-Cognition Relationships and Markers Predicting Remission in Treatment-Resistant Late-Life Depression

BA, University of Cambridge

PhD, University of Cambridge

Postdoctoral Fellowship, Centre for Addiction and Mental Health

Postdoctoral Fellowship, McLean Hospital, Harvard Medical School

Independent Scientist, Centre for Addiction and Mental Health

2 PM - 2:25 PM

Diego Pizzagalli, Ph.D., Prof. *Presenter*

Harvard Medical School, McLean Hospital

Smart Trial to Boost Antidepressant Response in Major Depression

2:25 PM - 2:50 PM

Using AI and Electronic Health Records-Linked Biorepositories for Psychiatric Outcomes Research

Thu 1 PM - 3 PM • Symposia

Jyotishman Pathak, Ph.D. *Chair*

Weill Cornell Medical College

1 PM - 1:10 PM

Brandon Coombes, Ph.D. *Presenter*

Mayo Clinic

Multi-PGS Models to Predict Bipolar Disorder and Subphenotypes Using Machine Learning Approaches

1:35 PM - 2 PM

Isotta Landi, Ph.D. *Presenter*

Institute for Personalized Medicine, Icahn School of Medicine at Mount Sinai

Enabling Intersectional Frameworks in Psychiatric Research: Extracting Sociodemographic Information via Large Language Models in Real-World Healthcare Settings

1:10 PM - 1:35 PM

Yuan Meng, Ph.D. *Presenter*

Weill Cornell Medical College

Associations of Data-Driven Longitudinal Digital Media Use Patterns and Youth Mental Health, Suicidal Ideation and Attempts

2 PM - 2:25 PM

Jyotishman Pathak, Ph.D. *Presenter*

Weill Cornell Medical College

Longitudinal Trajectories of Symptom Change During Antidepressant Treatment Among Managed Care Patients With Depression and Anxiety

2:25 PM - 2:50 PM

Oral Session I: ADHD, Autism, Neurodevelopmental Disorders, Depression & Suicide

Thu 1 PM - 3 PM

Sleep Mediates Genetic Risk for ADHD and Disruptive Behaviors: A Longitudinal Study

Thu 1:05 PM - 1:16 PM • Oral Presentation

Sohom Dey, B.Sc. *Presenter*

Centre for Addiction and Mental Health, University of Toronto

Molecular Imaging-Informed Biomarkers Link Typical and Atypical Functional Brain Synchronization to Underlying Neurotransmission

Thu 1:16 PM - 1:27 PM • Oral Presentation

Leon Lotter, M.D. *Presenter*

Institute of Neuroscience and Medicine (INM-7: Brain & Behavior), Research Center Jülich, Germany

Hitting the Right Target: Sex Differences in Neuroinflammation and Probiotic Treatment for Prenatal Stress

Thu 1:27 PM - 1:38 PM • Oral Presentation

Tamar Gur, M.D., Ph.D. *Presenter*

Ohio State University, College of Medicine

Generating Human Neural Diversity with a Multiplexed Morphogen Screen in Organoids

Thu 1:38 PM - 1:49 PM • Oral Presentation

Kevin Kelley, M.D., Ph.D. *Presenter*

Stanford Psychiatry

Discordant Cortical Patterns Between Psychiatric Disorders and Corresponding Common and Rare Genetic Risks

Thu 1:49 PM - 2 PM • Oral Presentation

Kuldeep Kumar, Ph.D. *Presenter*

Université de Montréal, Center Hospitalier Universitaire Sainte-Justine Research Center

Kuldeep Kumar is a postdoc in Dr. Sebastien Jacquemont's lab, at the Centre Hospitalier Universitaire Saint Justine Research Center, University of Montreal, Canada. His current work focuses on the application of machine learning for estimating the effect of rare genetic changes on brain structure and connectivity and is funded by the IVADO initiative. He completed his Ph.D. at École de technologie, University of Quebec, Montreal, Canada, where he was a recipient of MITACS Globalink Graduate Fellowship as well as a MITACS Globalink Research Award-INRIA. His Ph.D. research focused on analyzing multi-modal human brain MRI data, using machine learning and data analysis techniques to obtain brain fingerprints for individual subject characterization.

Acc-Centered Phase-Amplitude Coupling as a Mechanism for Flexible Cognitive Control and Its Modulation by Vcvs Dbs

Thu 2 PM - 2:11 PM • Oral Presentation

Jaejoong Kim, M.D., Ph.D. *Presenter*

University of Minnesota

Preliminary Evidence of Synaptic Deficits in Older Adults With Mood Disorders and Associations With Symptom Severity and Suicide Risk

Thu 2:11 PM - 2:22 PM • Oral Presentation

Ruth Asch, B.A., Ph.D. *Presenter*

Yale University School of Medicine

Doctor of Philosophy. University of Cincinnati. 2020.

Bachelor of Arts. Mount Holyoke College. 2011.

The Development and Piloting of a Machine Learning Prediction Alerting System for Adverse Events in Psychiatry

Thu 2:22 PM - 2:33 PM • Oral Presentation

Valentina Tamayo Velasquez, B.Sc. *Presenter*

University of Toronto

Performance Accuracy on a Gamified Social Cognition Task Predicts Fearlessness of Death

Thu 2:33 PM - 2:44 PM • Oral Presentation

Onjoli Krywiak, B.Sc. *Presenter*

Institute of Medical Science, University of Toronto

The Role of the Exposome and Allostatic Load in Racial Disparities in Adolescent Suicide Attempts

Thu 2:44 PM - 2:55 PM • Oral Presentation

Nadine Michel, B.S., M.D., Ph.D. *Presenter*

Department of Psychiatry, University of Pennsylvania

Afternoon Break

Thu 3 PM - 3:30 PM

Concurrent Symposia

Thu 3:30 PM - 5:30 PM

Metabolic Psychiatry: Regulatory Mechanisms and Emerging Interventions in Psychosis

Thu 3:30 PM - 5:30 PM • Symposia

Judith Ford, Ph.D. *Chair*

University of California, San Francisco

3:30 PM - 3:40 PM

Virginie-Anne Chouinard, M.D. *Presenter*

McLean Hospital - Harvard Medical School

Acute Administration of Intranasal Insulin Shows Disrupted Antioxidant Response and Glutathione (GSH) System Measured by Magnetic Resonance Spectroscopy in Psychotic Disorders, Compared to Healthy Participants

3:40 PM - 4:05 PM

Margaret Hahn, FRCP, M.D., Ph.D. *Presenter*

Centre for Addiction and Mental Health

Central Leptin Exerts Protective Effects on Whole-Body Energy Homeostasis During Acute Olanzapine Exposure

Dr. Hahn is a clinician-scientist at the CAMH who's research interests lie in translational work focused on the complex interplay between mental illness, antipsychotic treatments, and cardiometabolic risk, with a special interest in type 2 diabetes. Given the early accrual of metabolic risk leading to a 20% reduction in life expectancy for patients with schizophrenia and other severe mental illnesses, she has an interest in treatment and prevention strategies of so called "modifiable" cardiovascular risk factors. She leads the Mental Health and Metabolic Clinic at the CAMH, which specializes in metabolic monitoring, and interventions for metabolic risk factors in individuals with serious mental illness. She also oversees a basic science laboratory which conducts cutting edge research examining mechanisms of high rates of obesity and diabetes in those receiving psychotropic treatments.

4:05 PM - 4:30 PM

Lena Palaniyappan, M.D. *Presenter*

McGill University

Task-Induced Changes in Oxidative stress: Functional MRS of Glutamate and Glutathione in Untreated Schizophrenia

4:30 PM - 4:55 PM

Judith Ford, Ph.D. *Presenter*

University of California, San Francisco

Ketogenic Diet Improves Metabolic and Cognition Function in Psychotic Spectrum Disorders

4:55 PM - 5:20 PM

Beyond Biology: How Can AI Use Non-Biological Data to Predict Biologically-Driven Mental Health Outcomes?

Thu 3:30 PM - 5:30 PM • Symposia

Fiona Coutts, Ph.D. *Chair*

Institute of Psychiatry, Psychology, and Neuroscience, King's College London

I use machine learning methods to predict outcomes such as treatment response and long-term functioning in psychotic disorders.

3:30 PM - 3:40 PM

Sergio Mena Ortega, Ph.D. *Co-Chair*

King's College London, Institute of Psychiatry

Sergio graduated with first-class honours in Biomedical Engineering from the Polytechnical University of Valencia, Spain. He then pursued an MSc in Biomedical Engineering: Medical Physics and Imaging at the Department of Bioengineering, Imperial College London, where he graduated with first-class honours in 2020. Subsequently, Sergio

completed a PhD in Biomedical Research within the same department at Imperial College London.

Under the supervision of Dr. Parastoo Hashemi, Sergio's PhD thesis focused on the development of computational and analytical platforms for the study of neurochemical data. Specifically, he developed machine learning methods for predicting serotonin concentrations in vivo and mathematical models of the pharmacodynamic effects of antidepressants on the serotonin system.

In the AIM lab, Sergio's focus is developing machine learning models trained with multimodal data (clinical, environmental, neuroimaging, etc.) for the early diagnosis of psychosis and depression, and providing these models to the broader scientific community.

Fiona Coutts, Ph.D. *Presenter*

Institute of Psychiatry, Psychology, and Neuroscience, King's College London

AI-Based Prediction of Response to Antipsychotic Treatment: Robust Predictions in Diverse Psychosis Populations

I use machine learning methods to predict outcomes such as treatment response and long-term functioning in psychotic disorders.

3:40 PM - 4:05 PM

Erik Perfalk, M.D. *Presenter*

Department of Affective Disorders, Aarhus University Hospital - Psychiatry

Predicting Involuntary Admission Following Inpatient Psychiatric Treatment Using Machine Learning Trained on Electronic Health Record Data

4:05 PM - 4:30 PM

Sergio Mena Ortega, Ph.D. *Presenter*

King's College London, Institute of Psychiatry

AI-Based Prediction of Depression Symptomatology in First Episode Psychosis Patients: Insights From the Eufest and Raise-Etp Clinical Trials

Sergio graduated with first-class honours in Biomedical Engineering from the Polytechnical University of Valencia, Spain. He then pursued an MSc in Biomedical Engineering: Medical Physics and Imaging at the Department of Bioengineering, Imperial College London, where he graduated with first-class honours in 2020. Subsequently, Sergio completed a PhD in Biomedical Research within the same department at Imperial College London.

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4:30 PM - 4:55 PM

Sebastien Brodeur, FRCPC, M.D., M.Sc. *Presenter*

Laval University

Cardiometabolic Risk in First-Episode Psychosis: External Validation of the Psychosis Metabolic Risk Calculator (PsyMetRiC) in North America

4:55 PM - 5:20 PM

Can Integrating Multi-Disciplinary Data Bring Us Closer to a Unified Psychiatry?

Thu 3:30 PM - 5:30 PM • Symposia

Valentina Escott-Price, Ph.D. *Chair*

Cardiff University

3:30 PM - 3:40 PM

Valentina Escott-Price, Ph.D. *Presenter*

Cardiff University

Machine Learning for Genetic Prediction of Psychiatric Disorders

3:40 PM - 4:05 PM

RAMMOHAN SHUKLA, Ph.D. *Presenter*

University of Wyoming

Cell Type-Specific Vulnerabilities and Drug Effects in Psychiatric Disorders: A Systems-Level Analysis Using sn-RNAseq

4:30 PM - 4:55 PM

Mohamed Sherif, M.D., Ph.D., M.Sc. *Presenter*

Rhode Island Hospital/Alpert Medical School of Brown University

Computer Modeling of Dynamic and Functional Consequences of Cortical Microcircuit Changes in Psychiatric Disorders: Depression as a Case Study

4:55 PM - 5:20 PM

Gennady Roshchupkin, Ph.D. *Presenter*

Erasmus MC Medical Center Rotterdam

Integrating Multi-Omics Data with Explainable AI to Advance Understanding of Mental Health Disorders

4:05 PM - 4:30 PM

A Multidisciplinary Perspective on the Neurocomputational Architecture of Fear and Anxiety: From Cell Types to Clinically Relevant Circuits

Thu 3:30 PM - 5:30 PM • Symposia

Alexander Shackman, Ph.D., Prof. *Chair*

University of Maryland College Park

3:30 PM - 3:40 PM

Ned Kalin, M.D. *Co-Chair*

University of WI School of Medicine and Public Health

Ned H. Kalin, M.D. is Hedberg Professor and Chair of the Department of Psychiatry at the University of Wisconsin-Madison School of Medicine and Public Health. His research focuses on uncovering basic mechanisms that relate stress to the development of psychopathology and to understanding the mechanisms that cause some children to be vulnerable for the development of anxiety and depression. He is principal investigator for several ongoing research projects and has published over 250 peer-reviewed journal articles. Dr. Kalin has received considerable recognition for his work: member of the National Academy of Medicine, Distinguished Life Fellow of the American Psychiatric Association, and most recently receiving the International Society of Psychoneuroendocrinology Bruce McEwen Lifetime Achievement Award. Dr. Kalin currently serves as the Editor-in-Chief of The American Journal of Psychiatry.

Yumeya Yamamori, Ph.D. *Presenter*

University College London

What Are We Measuring in Cross-Species Anxiety Tests? Novel Insights From Computational Psychiatry Approaches

3:40 PM - 4:05 PM

Lisa Williams, Ph.D. *Presenter*

University of Wisconsin-Madison

Cross-Species Evidence Supporting Alterations in Prefrontal-Subcortical Connectivity in Relation to Early Life Pathological Anxiety

4:05 PM - 4:30 PM

Lindsay Halladay, Ph.D. *Presenter*

University of Arizona

Neural Correlates of Real-Time Cued Fear learning; a Role for the Bed Nucleus of the Stria Terminalis

4:30 PM - 4:55 PM

Alexander Shackman, Ph.D., Prof. *Presenter*

University of Maryland College Park

The Nature, Neurobiology, and Clinical Relevance of Human Fear and Anxiety

4:55 PM - 5:20 PM

Pharmacological, Neurobiological, and NMDA Receptor Inhibition Independent Mechanisms of Ketamine Action as a Rapid-Acting Antidepressant Drug

Thu 3:30 PM - 5:30 PM • Symposia

Todd Gould, M.D. *Chair*

University of Maryland School of Medicine

3:30 PM - 3:40 PM

Mark Rasenick, Ph.D. *Presenter*

U. Illinois Chicago College of Medicine

Antidepressant Properties of Ketamine in a Cellular Model System: Nmdar Independence and a Role for Camk

Dr. Rasenick's work has focused on G protein signaling in the nervous system and the relationship of neurotransmitter activation to rapid modification of the cytoskeleton. He has been particularly interested in how G proteins and the cytoskeleton work in concert to modify synaptic shape and to form a molecular basis for depression and the action of antidepressant drugs. The most recent work from his group suggests the possibility of a simple blood test indicating depression and therapeutic response to antidepressant therapy. This has led to the creation of Pax Neuroscience, which recently received SBIR funding from NIMH. Dr. Rasenick's research continues to be funded by the NIH, the Veterans Administration, as well as by other government, philanthropic and industry sources. He is principal investigator of an NIMH training grant, "Training in the Neuroscience of Mental Health", which supports graduate students and postdoctoral fellows in the neurosciences. He is also the co-founder of UIC's Graduate Program in Neuroscience. He has served on many scientific review panels (NIH, NSF, DOD), and editorial boards and is the author of numerous publications. Dr. Rasenick has received honors both for teaching and research, including the Searle Young Faculty Award from the Chicago Community Trust, the University Scholar Award and Distinguished Faculty Award from the University of Illinois, a Research Scientist Award from the NIMH, and a Robert Wood Johnson Health Policy Fellowship from the Institute of Medicine/National Academy of Sciences. He is an elected fellow of the American College of Neuropsychopharmacology and the American Association for the Advancement of Science and an elected member of the Dana Alliance for Brain Initiatives and the National Academy of Science (Cuba).

In addition to research and teaching, Dr. Rasenick is active in public policy. He is a member of the Board of Directors of the American Brain Coalition and the National Association for Biomedical Research. He served as a member of the Commission on Social Action of Reform Judaism and the Chapters committee, Government and Public Affairs Committee and International Affairs Committee of the Society for Neuroscience. He also serves or has served on the Public Affairs/Outreach committees of the American Society for Biochemistry and Molecular Biology and the American College of Neuropsychopharmacology, and chaired that Committee for ACNP. He currently chairs the Advocacy Committees for the American Brain Coalition and for the National Network of Depression Centers. He was a member of the Basic and Clinical Neuroscience Links Committee for the International Brain Research Organization (IBRO) and was appointed a Global Health Research Ambassador by the Paul Rogers Society—Research!America. While a Robert Wood Johnson Fellow (1999-2000), he was a staff member of the Senate Committee on Health, Education, Labor, and Pensions with the late Senator Edward M. Kennedy, (D Mass.). During this time, he worked on legislation concerning Cancer screening, Medicare Prescription Drugs, Organ Transplantation Policy and Mental Health Policy. He is also involved in international outreach for neuroscience and has organized programs designed to foster international cooperation in the basic and clinical neurosciences in Vietnam, Cuba and throughout Latin America. He has testified before the Senate Committee on Foreign Relations concerning outreach to Cuban biomedical scientists.

3:40 PM - 4:05 PM

Marco Pignatelli, M.D. *Presenter*

Washington University in St Louis

Ketamine Rescues Anhedonia by Cell-Type and Input Specific Adaptations in the Nucleus Accumbens

4:05 PM - 4:30 PM

Manoela Fogaca, Ph.D. *Presenter*

University of Rochester Medical Center

Ketamine's Impact on Excitatory and Inhibitory Activity in the mPFC: Biphasic Recruitment of GABA Function in Antidepressant-Like Responses

4:30 PM - 4:55 PM

Todd Gould, M.D. *Presenter*

University of Maryland School of Medicine

Antidepressant Potential of Ketamine's Hydroxynorketamine Metabolites Mediated by Unique Actions on Synaptic Plasticity

4:55 PM - 5:20 PM

Translational Advances in Discovering the Neuroimmune Mechanisms of Depression

Thu 3:30 PM - 5:30 PM • Symposia

James Murrough, M.D., Ph.D. *Chair*

Icahn School of Medicine at Mount Sinai

3:30 PM - 3:40 PM

Lyonna Parise, Ph.D. *Presenter*

Icahn School of Medicine at Mount Sinai

Shared Pathological Neuroimmune Targets in Psychiatric Comorbidities

3:40 PM - 4:05 PM

Caroline Menard, Ph.D. *Presenter*

University Laval

Environmental Enrichment and Physical Exercise Prevent Stress-Induced Behavioral and Blood-Brain Barrier Alterations via Fgf2

4:05 PM - 4:30 PM

Andrew Miller, M.D. *Presenter*

Emory University School of Medicine Department of Psychiatry

Targeting Inflammation and Its Effects on the Brain to Reverse Motivational Deficits in Major Depressive Disorder
Dr. Andrew H. Miller is William P. Timmie Professor and Vice Chair for Research in the Department of Psychiatry and Behavioral Sciences at the Emory University School of Medicine in Atlanta, Georgia. He is an internationally recognized expert in interactions between the brain and immune system as they relate to depression. His work has demonstrated that during immune activation, inflammatory cytokines can access the brain and interact with the metabolism of dopamine and glutamate, while altering neurocircuits relevant to motivation and reward as well as anxiety and alarm. Additionally, Dr. Miller and his group conducted the first clinical trial examining the efficacy of an immunotherapy (cytokine antagonist) for the treatment of depression. He has produced over 300 scholarly publications, won numerous research, teaching and mentoring awards including the Anna Monika Award for research

in mood disorders. He is also an ISI highly cited researcher and is a Board-Certified Psychiatrist voted as a Top Doctor in Psychiatry.

4:30 PM - 4:55 PM

James Murrough, M.D., Ph.D. *Presenter*

Icahn School of Medicine at Mount Sinai

Immune Cell-Specific Gene Expression Profiles in Major Depressive Disorder and Links to Motivation for Reward

4:55 PM - 5:20 PM

Oral Session II: Anxiety Disorders, Bipolar Disorder, Post Traumatic Stress Disorder & Substance Use Disorders

Thu 3:30 PM - 5:30 PM

Reduced Centromedial Amygdala Recruitment in Youth Independently Regulating Fear During a Parent-Focused Treatment for Pediatric Anxiety

Thu 3:35 PM - 3:46 PM • Oral Presentation

Taylor Keding, Ph.D. *Presenter*

Yale University

Reliable Multimodal Brain Signatures Predict Mental Health Outcomes in Children

Thu 3:46 PM - 3:57 PM • Oral Presentation

Kathryn Manning, Ph.D. *Presenter*

Hotchkiss Brain Institute, University of Calgary

Associations Between Treatment and Multimodal Neuroimaging Markers Influence Large-Scale Psychiatric Brain Signatures and AI Performance

Thu 3:57 PM - 4:08 PM • Oral Presentation

Christopher Ching, Ph.D. *Presenter*

Keck School of Medicine, USC

Emoface: AI-Assisted Diagnostic Model for Differentiating Major Depressive Disorder and Bipolar Disorder via Facial Biomarkers

Thu 4:08 PM - 4:19 PM • Oral Presentation

Shaohua Hu, Ph.D. *Presenter*

The First Affiliated Hospital, Zhejiang University School of Medicine

Selection and Characterization of Digital Biomarkers of Depressive Episodes in Bipolar Disorder Using Explainable Machine Learning

Thu 4:19 PM - 4:30 PM • Oral Presentation

Abigail Ortiz, M.D. *Presenter*

University of Toronto

Depression-Associated Genetic, Transcriptomic and Pathway -Level Profiling of Trauma-Exposed Military and Civilian Cohorts

Thu 4:30 PM - 4:41 PM • Oral Presentation

Athina Aruldass, Ph.D. *Presenter*

Harvard Medical School McLean Hospital

Race Disparities in Neighborhood Factors Contribute to Race-Related Differences in White Matter Microstructure

Thu 4:41 PM - 4:52 PM • Oral Presentation

Tianyi Li, B.S. *Presenter*

McLean Hospital, Harvard Medical School

Disrupted Intra-Thalamic and Thalamo-Cortical Structural Covariance Networks in Posttraumatic Stress Disorder

Thu 4:52 PM - 5:03 PM • Oral Presentation

Nicholas Steele, B.S. *Presenter*

Duke University Medical Center & Durham VA Medical Center

A Biopsychosocial Model Predicting Future Alcohol Use Problems: Childhood Trauma, Externalizing Behaviors, and Alcohol Cue-Induced Brain Activations

Thu 5:03 PM - 5:14 PM • Oral Presentation

Maja Nikolic, B.S. *Presenter*

McGill University, Department of Psychiatry

Imaging Sex Differences in Amphetamine-Induced Dopamine Release in the Prefrontal Cortex in Individuals With Alcohol Use Disorder

Thu 5:14 PM - 5:25 PM • Oral Presentation

Yasmin Zakiniaieiz, Ph.D. *Presenter*

Yale University School of Medicine

Poster Session

Thu 5:30 PM - 7:30 PM • Sheraton Hall

Welcome Reception

Thu 7:30 PM - 9 PM

FRIDAY, APRIL 25

Early Career Investigators' Early Breakfast (Invitation Only)

Fri 7 AM - 8:45 AM • Birchwood

Speaker Ready Room

Fri 7 AM - 5 PM • Planner Office

Registration

Fri 7 AM - 7 PM

Continental Breakfast

Fri 7:30 AM - 8:30 AM • Grand Ballroom Foyer

Meal Seating

Fri 7:30 AM - 5 PM • Grand Ballroom East

Exhibitors

Fri 8 AM - 5 PM

Plenary II

Fri 9 AM - 11 AM • Grand Ballroom West & Centre

Machine Learning in Mental Health - Progress, Perils, and Perspectives

Fri 9 AM - 9:40 AM • Plenary

Tim Hahn, Prof. Dr. *Presenter*

Universität Münster

Tim is a machine learning specialist and neuroscientist. He heads the Medical Machine Learning Lab at the Institute for Translational Psychiatry in Münster, Germany. Tim and his team focus on translational machine learning research for patient care, machine learning software development, and infrastructure for artificial intelligence in medicine with a focus on mental health. Their aim is to bring state-of-the-art machine learning tools and predictive models for personalized medicine into clinical practice.

Data and Platforms

Fri 9:40 AM - 10:20 AM • Plenary

Edward Chang, M.D. *Presenter*

UCSF

Dina Katabi

Fri 10:20 AM - 11 AM •

Lactation Room

Fri 9 AM - 7 PM • Peel

KiddieCorp

Fri 9 AM - 8 PM • Maple

Coffee Break

Fri 10:40 AM - 11 AM • Grand Ballroom Foyer

Business Presentation & Awards

Fri 11 AM - 11:30 AM • Grand Ballroom West & Centre

Travel Award Programming Year 2 (Invitation & In Person Only)

Fri 11:30 AM - 12:30 PM • Pine East

Lunch

Fri 11:30 AM - 12:30 PM • Grand Ballroom Foyer

Fireside Chat

Fri 11:30 AM - 12:30 PM • Simcoe / Dufferin

Federal Funding Panel

Fri 12:30 PM - 1:30 PM

Concurrent Symposia

Fri 12:30 PM - 2:30 PM

Mechanism-Driven Brain Network Therapeutics

Fri 12:30 PM - 2:30 PM • Symposia

Luca Cocchi, Ph.D. *Chair*

QIMR Berghofer Medical Research Institute

12:30 PM - 12:40 PM

Luca Cocchi, Ph.D. *Presenter*

QIMR Berghofer Medical Research Institute

Modelling Frontostriatal Functional Changes in OCD to Advance Knowledge and Therapies

12:40 PM - 1:05 PM

Elizabeth Manning, Ph.D. *Presenter*

University of Newcastle

Basal Ganglia Indirect Pathway Dysfunction in Maladaptive Repetitive Behaviours: New Insights From Preclinical Models to Drive New Therapies

The goal of my research is to understand the neural mechanisms underlying maladaptive behaviours that occur in mental illnesses using preclinical mouse models. Specifically, I am interested in disruption of flexible decision making processes, and the role of cortico-striatal circuit dysfunction in these changes. I use transgenic mouse models to investigate the mechanisms by which post-synaptic density genes impact risk for mental illness, through detailed characterization of cognitive and cortico-striatal circuit dysfunction.

1:05 PM - 1:30 PM

Robin Cash, Ph.D. *Presenter*

University of Melbourne

Precision TMS in Major Depressive Disorder: An Open-Label Trial of Personalized TMS

1:30 PM - 1:55 PM

Nicole Provenza, Ph.D. *Presenter*

Baylor College of Medicine

Disruption of Neural Periodicity Predicts Clinical Response After Deep Brain Stimulation for Obsessive-Compulsive Disorder

1:55 PM - 2:20 PM

Imaging and Cognitive AI-Derived Signatures of Neuropsychiatric Illness

Fri 12:30 PM - 2:30 PM • Symposia

Peter Kochunov, Ph.D. *Chair*

The University of Texas Health Science Center At Houston

12:30 PM - 12:40 PM

Vince Calhoun, Ph.D. *Co-Chair*

Georgia State, Georgia Tech, Emory

Vince Calhoun, Ph.D. *Presenter*

Georgia State, Georgia Tech, Emory

Dynamic Interactivity Signatures of Mental Health Risk

12:40 PM - 1:05 PM

Peter Kochunov, Ph.D. *Presenter*

The University of Texas Health Science Center At Houston

Redefining Trans-Neuropsychiatric Disorder Patterns Through Big Data and Machine Learning

1:05 PM - 1:30 PM

Huan Huang, M.D., Ph.D. *Presenter*

McGill University, Department of Psychiatry

Use of Thought and Language Index for Resting-State fMRI Analysis of the Language and Default Mode Networks in Schizophrenia: The Impact of rTMS Intervention

1:30 PM - 1:55 PM

Emily Dennis, Ph.D. *Presenter*

University of Utah

Natural Language Processing to Enable Cross-Scale Harmonization Supporting Symptom Domain Analyses

1:55 PM - 2:20 PM

Integrative Genomic Efforts in PTSD: Updates From the PGC-PTSD

Fri 12:30 PM - 2:30 PM • Symposia

Adam Maihofer, M.S. *Chair*

UCSD School of Medicine

12:30 PM - 12:40 PM

Caroline Nievergelt, M.S., Ph.D. *Co-Chair*

UCSD

Jonathan Coleman, Ph.D. *Presenter*

Institute of Psychiatry, Psychology and Neuroscience, King's College London

Incorporating Electronic Health Records to Disentangle Comorbidity in Post-Traumatic Stress Disorder

12:40 PM - 1:05 PM

Manasi Sharma, Sc.D. *Presenter*

Harvard School of Public Health

Trauma and PTSD in East Africa: Key Findings From the PTSD Follow up of the NeuroGAP- Psychosis Case Control Study

1:05 PM - 1:30 PM

Nikolaos Daskalakis, M.D., Ph.D. *Presenter*

McLean Hospital, Harvard Medical School

Biological Fine Mapping, Gene-By-Environment Interactions and Molecular Mediation of Risk in PTSD

1:30 PM - 1:55 PM

Jennifer Stevens, Ph.D. *Presenter*

Emory University School of Medicine

Genetically-Informed Understanding of Neural-Circuit-Based Risk for PTSD

Jennifer Strafford Stevens, PhD is a Co-Director of the Grady Trauma Project and an Assistant Professor of Psychiatry and Behavioral Sciences at Emory University School of Medicine. She directs the Neuroimaging Core at the Atlanta VA's Center for Visual and Neurocognitive Rehabilitation. She received her B.S. in Psychology at the University of Georgia, and Ph.D. in Cognitive and Developmental Psychology at Emory. She uses neuroimaging approaches to probe brain function in healthy individuals, and neurobiological pathways promoting stress vulnerability or resilience. She also studies sex differences in emotion-related brain function, and the brain basis of women's increased risk for trauma-related psychopathology. She addresses these questions using cognitive tasks to probe behavioral and subjective aspects of emotion and memory, and neurobiological measures such as functional magnetic resonance imaging (fMRI), scalp electrophysiology, and autonomic physiological measures. Her research also combines genomics and cognitive neuroscience research to characterize stress vulnerability pathways that link SNPs, expression and methylation, neural circuits, and behavior.

1:55 PM - 2:20 PM

Environmental Pollution and Brain Development: Sex-Specific Pathways and Psychiatric Risk

Fri 12:30 PM - 2:30 PM • Symposia

Clara Zundel, Ph.D. *Chair*

Wayne State University School of Medicine

12:30 PM - 12:40 PM

Megan Herting, Ph.D. *Co-Chair*

Keck School of Medicine University of Southern California

Megan Herting, Ph.D. *Presenter*

Keck School of Medicine University of Southern California

Air Pollution and Brain Maturation in Adolescence: Early Biomarkers of Risk for Psychopathology?

12:40 PM - 1:05 PM

Marissa Sobolewski, Ph.D. *Presenter*

University of Rochester Medical & Dental School

Cumulative Risk Factors During Pregnancy and Their Effects on Maternal-Offspring Behavior

The Sobolewski lab works to understand how the environment, specifically chemical exposures, can influence children's behavioral disorders or increase risk for age-related neurodegenerative disorders. Our lab focuses on behavior as a target of these chemicals. We are committed to studying these chemical exposures at different periods of life, like early development and during pregnancy. Pregnancy is its own unique period of life that is highly sensitive to chemical exposures, but historically maternal health has been ignored. We are committed to experiments that model the reality of human exposures. Our research projects focus on understanding the effect of endocrine disrupting chemical mixtures, real-world air pollution, inhaled metal exposures and investigating how stress can modulate chemical toxicity. Real-world studies that combine multiple risk factors are significant for public health protection, as current methods of risk assessment may overestimate the actual safe levels of chemical exposures.

1:05 PM - 1:30 PM

Dave Saint-Amour, Ph.D. *Presenter*

Université du Québec à Montréal

Clinical Research on Pre- And Postnatal Exposure to Legacy Heavy Metals and Emotional Regulation Processing in Inuit Adolescents

1:55 PM - 2:20 PM

Caroline Smith, Ph.D. *Presenter*

Boston College, Dept. of Psychology

Sex-Specific Effects of Gestational Air Pollution and Maternal Stress Exposure on the Social Brain

1:30 PM - 1:55 PM

Normative Brain Modelling in Different Ethnoracial Groups, Depression, and Schizophrenia Spectrum Disorders

Fri 12:30 PM - 2:30 PM • Symposia

Sophia Frangou, M.D. *Chair*

Icahn School of Medicine at Mount Sinai

12:30 PM - 12:40 PM

Mahavir Agarwal, M.D., Ph.D. *Co-Chair*

University of Toronto, Department of Psychiatry

Ruiyang Ge, Ph.D. *Presenter*

Djavad Mowafaghian Centre for Brain Health, University of British Columbia

Generalizability of BrainAGE Models of Brain Morphometry Across Distinct Ethnoracial Groups

12:40 PM - 1:05 PM

Katharine Dunlop, Ph.D. *Presenter*

University of Toronto

Characterizing the Impact of Brain Aging in Adult and Late Life Depression

1:05 PM - 1:30 PM

Nicholas Neufeld, M.D. *Presenter*

Centre for Addiction and Mental Health

Visceral Adipose Tissue is Associated With Brain Age Gap Estimation

1:30 PM - 1:55 PM

Mahavir Agarwal, M.D., Ph.D. *Presenter*

University of Toronto, Department of Psychiatry

The Effect of Weight Loss on BrainAGE in Schizophrenia

1:55 PM - 2:20 PM

Serotonin 4 Receptors: A Novel Target for Cognition, Depression, and Stress Resilience

Fri 12:30 PM - 2:30 PM • Symposia

Susannah Murphy, Ph.D. *Chair*

University of Oxford

12:30 PM - 12:40 PM

Susannah Murphy, Ph.D. *Presenter*

University of Oxford

5-HT₄ Receptor Agonists Are a Promising New Approach for the Treatment of Depression

1:55 PM - 2:20 PM

Indira DAVID, Ph.D. *Presenter*

Universite Paris-Saclay

Prucalopride, a Serotonergic Type 4 (5HT₄) Receptor Agonist, Alone or in Combination With a Selective Serotonin Reuptake Inhibitor, Induces Fast Anxiolytic/ Antidepressant-Like Activity

12:40 PM - 1:05 PM

Vibe Frokjaer, Prof. Dr. *Presenter*

NRU 8057, Copenhagen University Hospital - Rigshospitalet

Effect of Antidepressant Treatment on 5-HT₄ Receptor Binding and Associations With Clinical Outcomes and Verbal Memory in Major Depressive Disorder

1:30 PM - 1:55 PM

Briana Chen, Ph.D. *Presenter*

Columbia University

Adjunctive Administration of an Nmdar Antagonist and 5-HT₄R Agonist Exerts Sex- And Region-Specific Effects on C-Fos and Parvalbumin Networks

1:05 PM - 1:30 PM

Oral Session III: Depression

Fri 12:30 PM - 2:30 PM

Neurotransmitter Co-Transmission: Insights into Stress, Sex Differences, and Depression

Fri 12:35 PM - 12:46 PM • Oral Presentation

Elif Tunc-Ozcan, Ph.D. *Presenter*

University of New Mexico

Effectiveness of an Explainable AI-Derived Biomarker in Tracking Recovery During Subcallosal Cingulate Deep Brain Stimulation

Fri 12:46 PM - 12:57 PM • Oral Presentation

Sankaraleengam Alagapan, Ph.D. *Presenter*

Georgia Institute of Technology

AI-Driven Personalization for Depression Treatment: Integrating Emotional Images and Text Prompts From Clinical Interviews Into Functional Brain Imaging

Fri 12:57 PM - 1:08 PM • Oral Presentation

Corbin Ping, B.S. *Presenter*

Medical University of South Carolina

Corbin Ping is a Systems Engineer at the Medical University of South Carolina (MUSC), specializing in developing innovative systems for multimodal brain imaging and neurostimulation with expertise in molecular and cellular neuroscience. He focuses on DARPA's STRENGTHEN initiative, designing and operating systems integrating EEG, fMRI, fNIRS, and TMS for personalized therapies targeting depression, suicide prevention, and rehabilitation, while collaborating with a multidisciplinary team of researchers, clinicians, and engineers. His previous experience includes research at the Auditory Development and Connectomics Laboratory, where he utilized electron microscopy to model neuronal development in the auditory nervous system, and prototyping microfluidic devices for in-vitro diagnostics at

Jabil Healthcare, where his contributions earned national recognition in biomedical engineering competitions. He brings expertise in electrophysiological recordings, neurostimulation device fabrication, and modeling nervous system development, bridging engineering and neuroscience to advance personalized medicine and brain stimulation research.

Selective Inhibition of Microglial Glutaminase to Treat Chronic Stress-Induced Depression

Fri 1:08 PM - 1:19 PM • Oral Presentation

XIAOLEI ZHU, Dr., Ph.D. *Presenter*

Department of Psychiatry, Johns Hopkins University School of Medicine

fMRI and Self-Report Measures Differ in Their Identifiability

Fri 1:19 PM - 1:30 PM • Oral Presentation

Brian Kraus, M.A. *Presenter*

Washington University School of Medicine

Lower Birth Weight Predicts Unfavorable Adolescent Immune-Metabolic Trajectory Leading to Adult Depression Onset: Longitudinal Evidence From the ALSPAC Cohort

Fri 1:30 PM - 1:41 PM • Oral Presentation

Qizhou Xia, B.Sc. *Presenter*

Integrated Program in Neurosciences, McGill University, Montreal, QC, Canada.

Brain-Derived Characterization of Psychopathology Through Multimodal Neuroimaging

Fri 1:41 PM - 1:52 PM • Oral Presentation

Tristram Lett, Ph.D. *Presenter*

Charite Universitätsmedizin Berlin

Peripheral Inflammation and Reward-Related Corticostriatal Functional Connectivity: Interactive Roles in Components of Anhedonia During Adolescence

Fri 1:52 PM - 2:03 PM • Oral Presentation

Iris Ka-Yi Chat, M.A. *Presenter*

Temple University / University of Pittsburgh Medical Center

Selective Serotonin Release Influences Decision-Making in Aversive Contexts

Fri 2:03 PM - 2:14 PM • Oral Presentation

Michael Colwell, M.Sc. *Presenter*

University of Oxford

Neuroplastic Effects of Oscillation-Locked Transcranial Magnetic Stimulation

Fri 2:14 PM - 2:25 PM • Oral Presentation

Guldamlä Kalender, B.A. *Presenter*

University of Minnesota

Social Media Panel

Fri 1:30 PM - 2:30 PM

Afternoon Break

Fri 2:30 PM - 3 PM • Grand Ballroom Foyer

Concurrent Symposia

Fri 3 PM - 5 PM

Linking Aberrant Mitochondrial Metabolism, Neurotransmission and Cognition in Psychotic Disorders: Toward New, Targetable Neurobiological Markers of Psychosis

Fri 3 PM - 5 PM • Symposia

Mary Phillips, M.D. *Chair*

University of Pittsburgh

3 PM - 3:10 PM

Ana Andreazza, Ph.D. *Co-Chair*

University of Toronto & mitoNET

Kassandra Zachos, B.Sc. *Presenter*

University of Toronto Faculty of Medicine

Mitochondrial Biomarkers and Metabolic Syndrome in Bipolar Disorder

3:10 PM - 3:35 PM

Zachary Freyberg, M.D. *Presenter*

University of Pittsburgh

New Genetic and Pharmacological Approaches to Dissect Central Versus Peripheral Dopamine Receptor Signaling in Metabolic Regulation: A Novel Perspective in Metabolic Psychiatry

3:35 PM - 4 PM

Alessandro Colasanti, Ph.D. *Presenter*

Brighton and Sussex Medical School

Neurometabolic Imaging Studies in Bipolar Disorder and Primary Mitochondrial Disease Indicate That Mood Instability is Associated to Altered Mitochondrial Metabolism in the Anterior Cingulate

4 PM - 4:25 PM

Virginie-Anne Chouinard, M.D. *Presenter*

McLean Hospital - Harvard Medical School

Brain Reductive Stress and Energy Metabolism Dysregulation Are Associated With Cognitive Impairment in Psychotic Disorders

4:25 PM - 4:50 PM

What Have We Missed? - Mental Health in Modern Society: Social, Environmental, and Political Influences

Fri 3 PM - 5 PM • Symposia

Johanna Seitz-Holland, M.D., Ph.D. *Chair*

Harvard Medical School

3 PM - 3:10 PM

Abraham Reichenberg, Ph.D. *Co-Chair*

Icahn School of Medicine At Mount Sinai

Nora Penzel, Ph.D. *Presenter*

Massachusetts General Hospital, Harvard Medical School

Cannabis Use in Clinical High-Risk for Psychosis Across Different Legal Environments: Preliminary Findings From the Global Accelerating Medicines Partnership® Schizophrenia (AMP® SCZ) Study

3:10 PM - 3:35 PM

Benson Ku, M.D. *Presenter*

Emory University School of Medicine

Aspects of Area Deprivation Index in Relation to Hippocampal Volume Among Children

3:35 PM - 4 PM

Lauren Salminen, Ph.D. *Presenter*

Keck School of Medicine University of Southern California

Fine Particulate Matter is Associated With Lower Thalamic Volume and a Quadratic Cortical Thickness Pattern Across the Adult Lifespan

4 PM - 4:25 PM

Johanna Seitz-Holland, M.D., Ph.D. *Presenter*

Harvard Medical School

The Association Between Social Media Consumption and White Matter Health in the Adolescent Brain Cognitive

Development (ABCD) Dataset

4:25 PM - 4:50 PM

Does One Size Fit All? Subgroup Modeling of Brain-Behavior Relationships in Psychiatry

Fri 3 PM - 5 PM • Symposia

Elvisha Dhamala, Ph.D. *Chair*

Feinstein Institutes for Medical Research

3 PM - 3:10 PM

Jibran Khokhar, Ph.D. *Presenter*

University of Western Ontario Faculty of Medicine

The Impact of Sex on the CADM2-mediated Genetic Risk for Cannabis Use

3:10 PM - 3:35 PM

Arielle Keller, M.S., Ph.D. *Presenter*

University of Connecticut

Reproducible Sex Differences in Personalized Functional Network Topography in Youth

3:35 PM - 4 PM

Lisa Wiersch, M.Sc. *Presenter*

Feinstein Institutes for Medical Research, Zucker Hillside Hospital, Northwell Health

Sex Differences in Influences of Life Events on Gray Matter Volume in Youth

4 PM - 4:25 PM

Annie Cheng, Ph.D. *Presenter*

Yale University School of Medicine

Linking Brain to Other Biological Variables in the Adolescent Brain and Cognitive Development (ABCD) Study: One Size Doesn't Always Fit All

4:25 PM - 4:50 PM

"Carving Nature at Its Joints": Dissecting Psychiatric Biology With the use of Artificial Intelligence

Fri 3 PM - 5 PM • Symposia

Paris Alexandros Lalousis, Ph.D. *Chair*

King's College London, Institute of Psychiatry, Psychology & Neuroscience

Paris is a Lecturer in Artificial Intelligence in Mental Health at the Institute of Psychiatry, Psychology & Neuroscience at King's College London based in the Department of Psychosis Studies. He holds a first-class BSc (Hons) in Psychology from the University of Wales and a MSc with distinction in Brain Imaging & Cognitive Neuroscience from the University of Birmingham. He has worked as a research assistant at the Department of Mental Health & Neurosurgery of the Evangelismos Hospital in Athens and clinically in the Birmingham Early Intervention in Psychosis Services.

He undertook his doctoral training with a joint funded Priestley University of Birmingham - University of Melbourne PhD Fellowship at the Institute for Mental Health and the Centre for Human Brain Health. He then worked as Post-Doctoral Research Fellow at the University of Birmingham leading his site within the NIH-funded PRESCIENT consortium and coordinating with international collaborators from 10 countries and 12 sites to successfully develop novel machine learning solutions for psychosis.

He currently leads the AIM lab where he uses state-of-the-art artificial intelligence methods to incorporate multimodal data from the phenotypic, neuroanatomical, proteomic and genomic levels to improve understanding of disease processes in mental illness, by disentangling phenotypic and neurobiological heterogeneity in a transdiagnostic manner. He focuses in the translation of data science into clinical care in mental health disorders positioned at the crosshairs of state-of-the-art analytical techniques and transformative clinical applications. His works spans psychosis, depression, dementia, and Parkinson's disease among others.

3 PM - 3:10 PM

Sandra Vieira, Ph.D. *Presenter*

Lausanne University Hospital

Multivariate Brain-Behaviour Associations in Psychiatric Disorders

3:10 PM - 3:35 PM

Mathilde Antoniadou, Ph.D. *Presenter*

University of Pennsylvania

Data-Driven Neuroanatomical Dimensions of Major Depressive Disorder Identified Using Semi-Supervised Machine Learning

3:35 PM - 4 PM

Paris Alexandros Laloumis, Ph.D. *Presenter*

King's College London, Institute of Psychiatry, Psychology & Neuroscience

Anhedonia as a Potential Transdiagnostic Phenotype With Immune-Related Changes in Recent-Onset Mental Health Disorders

Paris is a Lecturer in Artificial Intelligence in Mental Health at the Institute of Psychiatry, Psychology & Neuroscience at King's College London based in the Department of Psychosis Studies. He holds a first-class BSc (Hons) in Psychology from the University of Wales and a MSc with distinction in Brain Imaging & Cognitive Neuroscience from the University of Birmingham. He has worked as a research assistant at the Department of Mental Health & Neurosurgery of the Evangelismos Hospital in Athens and clinically in the Birmingham Early Intervention in Psychosis Services.

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data from the phenotypic, neuroanatomical, proteomic and genomic levels to improve understanding of disease processes in mental illness, by disentangling phenotypic and neurobiological heterogeneity in a transdiagnostic manner. He focuses in the translation of data science into clinical care in mental health disorders positioned at the crosshairs of state-of-the-art analytical techniques and transformative clinical applications. His works spans psychosis, depression, dementia, and Parkinson's disease among others.

4 PM - 4:25 PM

Junhao Wen, Ph.D. *Presenter*

Columbia University

Neuroanatomical Heterogeneity and Similarities Across Nine AI Dimensions in Four Brain Disorders in the General Population

4:25 PM - 4:50 PM

Objective Measures of Psychomotor Speed in Depression and psychosis: Applications in Prediction and Clinical Trials

Fri 3 PM - 5 PM • Symposia

Rudolf Uher, M.D. *Chair*

Dalhousie University

Dr. Rudolf Uher is the Canada Research Chair in Early Intervention and a Professor in Psychiatry at Dalhousie University. Dr Uher studied medicine at Charles University in Prague. He completed a PhD in neurosciences at Charles University and King's College London and trained in Psychiatry at the Maudsley Hospital in London, UK. Dr Uher has had leading roles in studies aiming to personalize treatment of depression, including GENDEP, NEWMEDS and CAN-BIND. In 2013, Dr Uher launched the FORBOW program of early transdiagnostic risk identification and targeted prevention of mental illness in youth. Dr. Uher has served as the deputy editor of Depression and Anxiety and consultant for the World Health Organization on the 11th revision of the International Classification of Diseases. Dr. Uher is an author of over 200 articles on mental illness, its causes and treatment. Dr Uher is the recipient of the Max Hamilton Memorial Prize and the Royal Mach-Gaensslen Prize for Excellence in Mental Health Research. Dr Uher treats people for depression and bipolar disorder at the Mood Disorders Program at the QEII Health Sciences Centre, Halifax, NS.

3 PM - 3:10 PM

Sofie von Känel, M.Sc. *Presenter*

Translational Research Center, University Hospital of Psychiatry and Psychotherapy, University of Bern, Switzerland
Motor Coordination Deficits and Impaired Hand Motor Control in Schizophrenia Spectrum Disorders and Depression

3:10 PM - 3:35 PM

Lena Palaniyappan, M.D. *Presenter*

McGill University

Speech Spectrograms to Measure the Severity of Psychomotor Poverty in Psychosis

3:35 PM - 4 PM

André Tonon, M.D. *Presenter*

McMaster University

Objective Assessment of Early Psychomotor Changes During Antidepressant Treatment

4 PM - 4:25 PM

Sageev Oore, Ph.D., Prof. *Presenter*

Dalhousie University

Measurement of Personal Rhythm From Speech and Movement

4:25 PM - 4:50 PM

The New Normal: Elucidating Mechanisms of Risk and Resilience in Late-Life Depression

Fri 3 PM - 5 PM • Symposia

Olusola Ajilore, M.D., Ph.D. *Chair*

University of Illinois at Chicago

Center for Depression and Resilience Professor of Psychiatry

3 PM - 3:10 PM

Warren Taylor, M.D. *Presenter*

Vanderbilt University Medical Center

Reconsidering Remission in Recurrent Late-Life Depression: Residual Clinical Features and Predictors of Relapse Following Successful Antidepressant Treatment

3:10 PM - 3:35 PM

Carmen Andreescu, M.D. *Presenter*

University of Pittsburgh

Brain and Cardiovascular Responses to Acute Stress in Remitted and Recurrent Late-Life Depression

I am a Professor of Psychiatry in the Department of Psychiatry at the University of Pittsburgh School of Medicine and a licensed psychiatrist, with additional expertise in Geriatric Psychiatry. My research focuses on the neural markers of late-life mood and anxiety disorders, including structural and functional MRI measures of response to treatment.

3:35 PM - 4 PM

Andrew Gerlach, Ph.D. *Presenter*

University of Pittsburgh School of Medicine

Functional Brain Network Alterations and Late-Life Depression Relapse

Nuclear engineer by training, now applying my computational expertise to multimodal neuroimaging integration. My focus is on exploring the underlying neurobiology and treatment response of late-life depression and anxiety. In his free time, he enjoys just about anything that will take him and his family into wild spaces, especially rock climbing.

4 PM - 4:25 PM

Olusola Ajilore, M.D., Ph.D. *Presenter*

University of Illinois at Chicago

Walk This Way: Physical Activity and Late-Life Depression Recurrence Risk

Center for Depression and Resilience Professor of Psychiatry

4:25 PM - 4:50 PM

AI, Equity, and Mental Health: Addressing Bias and Improving Outcomes for Marginalized Communities

Fri 3 PM - 5 PM • Symposia

Satrajit Ghosh, Ph.D. *Chair*

Massachusetts Institute of Technology

3 PM - 3:10 PM

Ran Barzilay, M.D., Ph.D. *Co-Chair*

University of Pennsylvania and the Children's Hospital of Philadelphia

Desmond Patton, Ph.D. *Presenter*

Perelman School of Medicine University of Pennsylvania

Detecting Grief Online Among Black Harlem Residents

Desmond Upton Patton is the Brian and Randi Schwartz University Professor and the thirty-first Penn Integrates Knowledge University Professor. He has joint appointments in the School of Social Policy & Practice and the Annenberg School for Communication along with a secondary appointment in the department of psychiatry in the Perelman School of Medicine.

Professor Patton's groundbreaking research into the relationship between social media and gang violence – specifically how communities constructed online can influence often harmful behavior offline – has led to his becoming the most cited and recognized scholar in this increasingly important area of social science. His early work attempting to detect trauma and preempt violence on social media led to his current roles as an expert on language analysis and bias in AI and a member of Twitter's Academic Research advisory board and Spotify's Safety Advisory Council. As a social worker, Patton realized existing gold standard data science techniques could not accurately understand key cultural nuances in language amongst predominantly black and Hispanic youth. In response, he created the Contextual Analysis of Social Media (CASM) approach to center and privilege culture, context and inclusion in machine learning and computer vision analysis.

3:10 PM - 3:35 PM

Ran Barzilay, M.D., Ph.D. *Presenter*

University of Pennsylvania and the Children's Hospital of Philadelphia

Performance of Risk Classification Algorithms for Adolescent Suicide Attempt at the Intersection of Race and Sex

3:35 PM - 4 PM

Christopher Fields, Ph.D. *Presenter*

Yale University School of Medicine Department of Psychiatry

Racialized Heteroscedasticity as a Source of Algorithmic Bias in Psychiatric Prediction Models

4 PM - 4:25 PM

Tanzeem Choudhury, Ph.D. *Presenter*

Cornell University

Reliability of AI Tools in Predicting Depression Risk Using Smartphone Sensed-Behavioral Data

Tanzeem Choudhury is an associate professor in Computing and Information Sciences at Cornell University and a co-

founder of HealthRhythms Inc. At Cornell, she directs the People-Aware Computing group, which works on inventing the future of technology-assisted wellbeing. Tanzeem received her PhD from the Media Laboratory at MIT. She has been awarded the MIT Technology Review TR35 award, NSF CAREER award, TED Fellowship, Kavli fellowship and Ubicomp 10yr Impact Award. For more information, visit the People-Aware Computing group's webpage (<http://pac.cs.cornell.edu>) or follow the groups work @pac_cornell.

4:25 PM - 4:50 PM

Rising Star Oral Presentations

Fri 3 PM - 5 PM

Revealing the Role of Medications in the Elevated Risk of Cardiovascular Disorders in Women With Bipolar Disorder Using Machine Learning

Fri 3 PM - 3:20 PM • Rising Star

Mohamed Abdelhack, Ph.D. *Presenter*

Krembil Centre for Neuroinformatics, Centre for Addiction and Mental Health

Cognitive Impairment in Patients with Early Onset Psychosis and Their siblings: Age and Sex Differences

Fri 3:20 PM - 3:40 PM • Rising Star

Josephine Mollon, Ph.D. *Presenter*

Boston Children's Hospital, Harvard Medical School

Ketamine Increases Theta Oscillations and Cortical Connectivity of the Human Hippocampus

Fri 3:40 PM - 4 PM • Rising Star

Ethan Solomon, M.D., Ph.D. *Presenter*

Stanford University School of Medicine, Department of Psychiatry

A Longitudinal Analysis of Hippocampal Glutamate and Volumes Loss in Medication Naïve First Episode Psychosis Patients

Fri 4 PM - 4:20 PM • Rising Star

Eric Nelson, Ph.D. *Presenter*

The University of Alabama At Birmingham

Personalized Stimulation Targets for Closed-Loop Deep Brain Stimulation for Major Depressive Disorder

Fri 4:20 PM - 4:40 PM • Rising Star

Kristin Sellers, Ph.D. *Presenter*

University of California, San Francisco

Electroconvulsive Therapy Mechanisms of Anti-Suicidal Response: A Global ECT-MRI Research Collaboration (GEMRIC) Mega-Analysis

Fri 4:40 PM - 5 PM • Rising Star

Marta Cano, Ph.D. *Presenter*

Massachusetts General Hospital-Harvard Medical School

Poster Session II

Fri 5 PM - 7 PM • Sheraton Hall

LGBTQIA+ Reception

Fri 6:30 PM - 8 PM • Pine

Early Career Hour Panel

Fri 6:30 PM - 8 PM • Chestnut

Program Committee Meeting & Dinner (Invite Only)

Fri 7 PM - 9 PM • City Hall

Trainee Social

Fri 8:30 PM - 10:30 PM

SATURDAY, APRIL 26

Continental Breakfast

Sat 7 AM - 8 AM • Grand Ballroom Foyer

Speaker Ready Room

Sat 7 AM - 3 PM • Planner Office

Meal Seating

Sat 7 AM - 5 PM • Grand Ballroom East

Registration

Sat 7 AM - 7 PM

Plenary III

Sat 8 AM - 10 AM • Grand Ballroom West & Centre

Doina Precup

Sat 8 AM - 8:40 AM •

Social Media, AI, and the Mind: Intersections of Violence, Vulnerability, and Resilience through the eyes of Gakirah Barnes

Sat 8:40 AM - 9:20 AM • Plenary

Desmond Patton, Ph.D. *Presenter*

Perelman School of Medicine University of Pennsylvania

Desmond Upton Patton is the Brian and Randi Schwartz University Professor and the thirty-first Penn Integrates Knowledge University Professor. He has joint appointments in the School of Social Policy & Practice and the Annenberg School for Communication along with a secondary appointment in the department of psychiatry in the Perelman School of Medicine.

Professor Patton's groundbreaking research into the relationship between social media and gang violence – specifically how communities constructed online can influence often harmful behavior offline – has led to his becoming the most cited and recognized scholar in this increasingly important area of social science. His early work attempting to detect trauma and preempt violence on social media led to his current roles as an expert on language analysis and bias in AI and a member of Twitter's Academic Research advisory board and Spotify's Safety Advisory Council. As a social worker, Patton realized existing gold standard data science techniques could not accurately understand key cultural nuances in language amongst predominantly black and Hispanic youth. In response, he created the Contextual Analysis of Social Media (CASM) approach to center and privilege culture, context and inclusion in machine learning and computer vision analysis.

The Impact of AI and Digital Technology on Predicting Outcomes in Mental Health

Sat 9:20 AM - 10 AM • Plenary

Guillermo Cecchi, Ph.D. *Presenter*

IBM Research - T.J. Watson Laboratory

I am currently a Principal Research Staff at the T.J. Watson IBM Research Center, directing the Computational Psychiatry and Neuroimaging group, part of the IBM's Worldwide Digital Health Initiative. I completed undergraduate studies in physics in my native Argentina, and my doctoral research in physics, biology and neuroscience at Rockefeller University. Before joining IBM Research, I was a postdoctoral fellow on neuroimaging at Cornell University Medical School in the Psychiatry department. Throughout my early career I was always interested in the mathematical description of complex systems, but the exposure to psychiatry made me realize I could contribute to a field that unites both my intellectual curiosity and my interest in human affairs. My current research focuses on the study of behavior, prominently language and more broadly human communication, combining state-of-the-art AI and

neuropsychiatric knowledge in the explicit form of published literature and procedures, as well as implicit in the clinical and research practice of assessment and treatment. In parallel, I also apply novel computational approaches to neural data seeking to understand the physiological and behavioral as facets of the same phenomenon. The early results on prediction of outcomes in psychiatry and neurology from speech analysis, and on the characterization of large-scale brain activity with statistical network theory, were followed by a growing number of academic and industrial collaborations. These collaborations, which in recent years have gravitated towards the 'modernization' of large-scale clinical trial through AI and digital technology, in conditions as disparate as prodromal psychosis, drug addiction, chronic pain, Amyotrophic Lateral Sclerosis and Parkinson's disease, will be the focus of my presentation.

Exhibitors

Sat 8 AM - 5 PM

KiddieCorp

Sat 8 AM - 7 PM • Maple

Lactation Room

Sat 8 AM - 7 PM • Peel

Break

Sat 10 AM - 10:20 AM

Plenary Debate: This House Proposes That AI-Enabled Therapeutics Will Revolutionize Mental Health Care

Sat 10:20 AM - 11:20 AM • Grand Ballroom West & Centre

This House Proposes That AI-Enabled Therapeutics Will Revolutionize Mental Health Care

Sat 10:20 AM - 11:20 AM • Plenary Debate

Dost Ongur, M.D., Ph.D. *Chair*

McLean Hospital, Harvard Medical School

Alex Leow, M.D., Ph.D., Prof. *Participant*

University of Illinois At Chicago College of Medicine

The future of AI-enabled therapeutics is already here (and it is our job to make sure they are human compatible)

Roy Perlis, M.D. *Participant*

Harvard Medical School

Ai-Guided Psychotherapeutic Interventions in Mental Health

Lunch

Sat 11:30 AM - 12:30 PM • Grand Ballroom Foyer

Travel Award Programming Year 3 (Invitation & In Person Only)

Sat 11:30 AM - 12:30 PM • Pine East

Fireside Chat

Sat 11:30 AM - 12:30 PM • Simcoe / Dufferin

Concurrent Symposia

Sat 12:30 PM - 2:30 PM

What Goes Up Must Go Down: Transdiagnostic Modulation of the Default Mode Network for Clinical Translation

Sat 12:30 PM - 2:30 PM • Symposia

Susan Whitfield-Gabrieli, Ph.D. *Chair*

Northeastern University

12:30 PM - 12:40 PM

Eden Evins, M.D. *Co-Chair*

Massachusetts General Hospital and Harvard Medical School

Subha Subramanian, M.D. *Presenter*

Beth Israel Deaconess Medical Center

Precision Functional Mapping of Psilocybin's Acute and Persistent Brain Effects

12:40 PM - 1:05 PM

Jiahe Zhang, Ph.D. *Presenter*

Northeastern University

Default Mode Network as an fMRI Neurofeedback Target for Schizophrenia

1:05 PM - 1:30 PM

Lindsay Oliver, Ph.D. *Presenter*

Centre for Addiction and Mental Health

Individualized Transcranial Magnetic Stimulation Targeting Social Cognitive Network Functional Connectivity in

Schizophrenia Spectrum Disorders

1:30 PM - 1:55 PM

Heather Ward, M.D. *Presenter*

Vanderbilt University Medical Center

Independent Validation and Network Engagement of a Psychosis-Specific, Personalized rTMS Target for Nicotine Dependence

Dr. Heather Burrell Ward attended Duke University School of Medicine, where she was elected to the Alpha Omega Alpha Honor Medical Society. She completed psychiatry residency training at Brigham & Women's Hospital - Harvard Medical School in the Research Track. Dr. Ward completed fellowship training in Behavioral Neurology and neuromodulation at the Berenson-Allen Center for Noninvasive Brain Stimulation at Beth Israel Deaconess Medical Center and Harvard Medical School.

Dr. Ward uses neuromodulation (rTMS) and neuroimaging to understand and treat the brain-circuit basis of psychotic disorders. Dr. Ward has studied nicotine dependence in schizophrenia for the past decade. She was awarded the Sidney R. Baer, Jr. Fellowship, Norman E. Zinberg Fellowship, and Livingston Fellowship for training in neuroimaging and neuromodulation research. Dr. Ward is using individualized, network-targeted TMS interventions for nicotine dependence in schizophrenia. She is interested in developing TMS interventions for substance use, psychomotor slowing, cognitive impairment, and clinical symptoms in psychotic disorders.

1:55 PM - 2:20 PM

Exploring Speech Biomarkers: Advancements in Clinical Psychiatry Research

Sat 12:30 PM - 2:30 PM • Symposia

Joseph Kambeitz, Prof. Dr. med *Chair*

University of Cologne, University Hospital of Cologne

12:30 PM - 12:40 PM

Felix Menne, Ph.D. *Presenter*

k:elements GmbH, Saarbrücken, Germany

Speech Analysis as an Objective Measure of Stress: Associations Between Speech Features and Cortisol Levels

12:40 PM - 1:05 PM

Julia Schröder, M.Sc. *Presenter*

Department of Psychiatry, Psychotherapy and Psychosomatics, Faculty of Medicine, RWTH Aachen, Aachen, Germany

Uncovering Speech Alterations in Major Depressive Disorder: Neural Correlates of Emotion Processing and Emotion Verbalization

PhD candidate in Neuroscience with the topic "Unconscious emotion processing in Depression: A simultaneous EEG-fMRI measurement" (thesis submitted)

B.Sc. in Biology, M.Sc. in Cognitive and Integrative Systems Neuroscience

Interested in cognitive neuroscience, depression, fMRI, EEG, social interaction

1:05 PM - 1:30 PM

Joseph Kambeitz, Prof. Dr. med *Presenter*

University of Cologne, University Hospital of Cologne

Automated Analysis of Linguistic Measures Using Verbal Fluency Test in Psychotic and Affective Disorders: Findings From the Pronia Study

1:30 PM - 1:55 PM

Jessica Peter, Prof. Dr. *Presenter*

University of Bern, Department of Old Age Psychiatry and Psychotherapy

Tdcs Induces Cognitive Reorganisation in Patients With Major Depressive Disorder

1:55 PM - 2:20 PM

Intergenerational Transmission of Risk for Mental Illness: Prenatal Determinants and Genetic Moderators

Sat 12:30 PM - 2:30 PM • Symposia

Yuliya Nikolova, Ph.D. *Chair*

Centre for Addiction and Mental Health

12:30 PM - 12:40 PM

Klara Mareckova, Ph.D. *Presenter*

Central European Institute of Technology, Masaryk University

Maternal Dietary Inflammatory Index During Pregnancy and Its Relationship With Cortical Gyrification and Cognitive Ability in Young Adult Offspring

12:40 PM - 1:05 PM

Patricia Pelufo Silveira, M.D., Ph.D. *Presenter*

McGill University, Department of Psychiatry

A Translational Model Investigating the Association Between Prenatal Stress and Adult Psychiatric/Cardiometabolic Comorbidity: From Mesocorticolimbic Gene Networks to Individual Risk

Dr Silveira is the scientific director of the Genomics and Epigenetics Pillar of the Ludmer Centre for Neuroinformatics & Mental Health, based at the Douglas Research Centre, and affiliated with the Department of Psychiatry at McGill University.

A pediatrician and neuroscientist, Dr Silveira's research focuses on how perinatal and early-childhood environments interact with individual differences in biological processes, shaping and modulating both health and disease risk across the lifespan, into old age. Her aim is to identify how gene networks interact with environmental adversities early in life, modifying endophenotypes (impulsivity, sensitivity to reward, executive function, food choices) that ultimately affect healthy growth and neurodevelopment, increasing an individual's risk for developing chronic metabolic diseases and psychopathologies across their lifespan.

1:05 PM - 1:30 PM

Robert Levitan, FRCP(C) *Presenter*

CAMH University of Toronto

A New Model for Season-Of-Birth Research to Improve Translational Value

1:30 PM - 1:55 PM

Daniel Felsky, Ph.D. *Presenter*

Centre for Addiction and Mental Health

Interplay Between Genetics and Prenatal Pollution on Child Brain and Cognitive Development

1:55 PM - 2:20 PM

Causal Inference Approaches to Support Decision-Making in First Episode Psychosis Care

Sat 12:30 PM - 2:30 PM • Symposia

Dost Ongur, M.D., Ph.D. *Chair*

McLean Hospital, Harvard Medical School

12:30 PM - 12:40 PM

Alejandro Szmulewicz, M.D., Ph.D. *Presenter*

Harvard TH Chan School of Public Health

Comparative Effectiveness of Long-Acting Injectable Vs. Oral Antipsychotic Medication After a First Episode of Psychosis: A Target Trial Emulation

12:40 PM - 1:05 PM

Gonzalo Martínez-Alés, M.D. *Presenter*

Icahn School of Medicine At Mount Sinai

Initiation of Clozapine Vs. Olanzapine for Treatment-Resistant First Episode psychosis: Protocol for a Target Trial Emulation in the Fep-Causal Collaboration

1:05 PM - 1:30 PM

Maria Ferrara, M.D. *Presenter*

University of Ferrara

Sex-Specific Treatment Strategies in First Episode Psychosis

1:30 PM - 1:55 PM

Covadonga Díaz-Caneja, M.D. *Presenter*

Department of Child and Adolescent Psychiatry, Institute of Psychiatry and Mental Health, Hospital General

Universitario Gregorio Marañón, IISGM, CIBERSAM, School of Medicine, Universidad Complutense, Madrid, Spain

Extrapyramidal Symptoms as Early Clinical Predictors in First-Episode Psychosis

1:55 PM - 2:20 PM

Bridging Observational Studies and Clinical Trials: Hormonal Influences on Women's Mental Health

Sat 12:30 PM - 2:30 PM • Symposia

Seyma Katrinli, Ph.D. *Chair*

Emory University

12:30 PM - 12:40 PM

Alicia Smith, Ph.D. *Co-Chair*

Emory University School of Medicine

Clarisse Musanabaganwa, Ph.D. *Presenter*

RBC

Trauma and PTSD Among Rwandan Women Survivors following Exposure to the 1994 Genocide Against the Tutsi in Rwanda: Hpa and Epigenetic Mechanisms

Dr. Clarisse Musanabaganwa holds a PhD in medical sciences from Radboud University Netherlands. Her recent research discoveries in R&D revealed potential epigenetic marks associated with trauma and PTSD and intergenerational effects in Rwandan Postgenocide population following exposure to 1994 genocide against the Tutsi. She holds a masters of science in epidemiology from university of Rwanda and second masters in international public health from Manchester metropolitan university/UK as well as a bachelor of science in biotechnology, biochemistry and genetics engineering from Bangalore university/India. She has a postgraduate diploma in bioinformatics and clinical research.

Dr Clarisse has been serving in leadership positions of shaping the national research agenda and innovation for the health sector for more than 14 years and she recently has recently been appointed African Women Achievers Awards recognition. She is the PI of many research projects primarily cancer, neuropsychiatric disorders, covid19 and cardiovascular diseases. She published a number of scientific articles and she is a reviewer for national and international scientific journals.

Clarisse is a Next Generation Scientist at Novartis/Switzerland and an affiliate of the center of human genetics at the University of Rwanda where she is currently a Postdoc fellow on podoconiosis research project funded by NIHR and she is investigating the role of epigenetic mechanisms in the etiology of podoconiosis. She is also a research fellow under the global minds grant/Vrije Universiteit Brussel/Belgium. She has been a member of national research agenda steering committee, the chair of district research challenge steering committee as well as the national focal point of EAC health research commission.

12:40 PM - 1:05 PM

Cecilia Hinojosa, Ph.D. *Presenter*

University of New Mexico

The Moderating Role of Childhood Trauma on Alcohol Craving Across the Menstrual Cycle in Black American Women With Trauma Exposure

1:05 PM - 1:30 PM

Seyma Katrinli, Ph.D. *Presenter*

Emory University

The Impact of Ovulation-Suppressing Contraceptives on Behavioral and Functional Difficulties in Borderline Personality Disorder

1:30 PM - 1:55 PM

Katelyn I. Oliver, B.S. *Presenter*

Emory University

Impacts of Exogenous Estradiol on Episodic Memory and Neural Encoding of Conditioned Threat in Women

1:55 PM - 2:20 PM

Reward Learning and Mood in Daily Life: Intensive Multi-Modal Longitudinal Studies

Sat 12:30 PM - 2:30 PM • Symposia

Aliona Tsypes, Ph.D. *Chair*

University of Pittsburgh

I am an Assistant Professor of Psychiatry at the University of Pittsburgh and a licensed psychologist. In my research, I combine electroencephalography, computational modeling, and ecological momentary assessment to improve the understanding and treatment of suicidal thoughts and behaviors. I am particularly interested in elucidating how alterations in value-based decision-making contribute to suicide risk and how protective factors may buffer against this risk.

12:30 PM - 12:40 PM

Eran Eldar, M.D., Ph.D. *Presenter*

The Hebrew University of Jerusalem

Learning, Not Decision-Making, Governs Changes in Risk Taking

12:40 PM - 1:05 PM

Michael Hallquist, Ph.D. *Presenter*

University of North Carolina at Chapel Hill

Within-Person Fluctuations in Reinforcement Learning Predict Negative Mood: Intensive Longitudinal Study of Behavior and Cortical Oscillations

1:05 PM - 1:30 PM

Aliona Tsypes, Ph.D. *Presenter*

University of Pittsburgh

Disentangling State and Trait Affect in Exploration-Exploitation Decision-Making: Insights From a 28-Day Reinforcement Learning Study

I am an Assistant Professor of Psychiatry at the University of Pittsburgh and a licensed psychologist. In my research, I combine electroencephalography, computational modeling, and ecological momentary assessment to improve the understanding and treatment of suicidal thoughts and behaviors. I am particularly interested in elucidating how alterations in value-based decision-making contribute to suicide risk and how protective factors may buffer against this risk.

1:30 PM - 1:55 PM

Alison Schreiber, Ph.D. *Presenter*

University of Kentucky, College of Medicine

Pavlovian Approach Biases are Amplified by Affective State Congruence Between Initial Learning and Later Choice

1:55 PM - 2:20 PM

Uncovering Mechanisms of Action and Novel Targets in Depression and Suicide Risk Treatment

Sat 12:30 PM - 2:30 PM • Symposia

Sakina Rizvi, Ph.D. *Chair*

University of Toronto, St. Michael's Hospital

12:30 PM - 12:40 PM

Poornima Kumar, M.Sc., Ph.D. *Co-Chair*

McLean Hospital, Harvard Medical School

Poornima Kumar, M.Sc., Ph.D. *Presenter*

McLean Hospital, Harvard Medical School

Uncovering Transdiagnostic Dimensions of Psychiatric Symptoms Through Computational Modeling of Reinforcement Learning

12:40 PM - 1:05 PM

Alexis Whitton, Ph.D. *Presenter*

Black Dog Institute, University of New South Wales

Can Global Collaboration in Digital Phenotyping Provide Solutions for the Most Intractable Symptoms of Depression?

1:05 PM - 1:30 PM

Molly Hyde, M.Sc. *Presenter*

University of Toronto

Characterization of Anhedonia and Reward Function as Predictors of Suicide Risk and Treatment Response

1:55 PM - 2:20 PM

Martina Di Simplicio, Ph.D. *Presenter*

Imperial College London

Targeting Mental Imagery as a Motivational Amplifier in Self-Harm Behaviour

1:30 PM - 1:55 PM

Novel Neurobiological and Behavioural Insights Into Conduct Disorder/Problems and Callous-Unemotional Traits: Exploring Subtypes and Sex Differences

Sat 12:30 PM - 2:30 PM • Symposia

Sheilagh Hodgins, Prof. *Chair*

Université de Montréal

Sheilagh Hodgins has been conducting research on conduct disorder, antisocial personality disorder, psychopathy, and aggressive behavior for more than four decades. She used prospectively collected data on birth and population cohorts to identify antecedents of these disorders and changes in presentation across development. She examined the roles of specific genetic polymorphisms as well as epigenetic changes associated with these disorders. She also used magnetic resonance imaging to examine specificities of white and gray matter associated with each of these disorders and behavior. Additionally, she studies the association of conduct disorder with schizophrenia. All work was done with dedicated colleagues and students.

12:30 PM - 12:40 PM

Stephane De Brito, Ph.D. *Co-Chair*

University of Birmingham, UK

Professor De Brito completed undergraduate studies in Psychology in Switzerland (2003; University of Geneva), followed by a move to the United Kingdom to read for a MPhil in Criminology (2004; University of Cambridge) and a PhD in Forensic Mental Health Science (2009; King's College London). Before moving to the University of Birmingham as a Birmingham Fellow in March 2012, Dr De Brito was a Post-doctoral Research Associate in the Developmental Risk and Resilience Unit in the Department of Psychology at University College London.

BSc. (Hons) Psychology, University of Geneva (1999-2003)

M.Phil. Criminology, Institute of Criminology, University of Cambridge (2003-2004)

Ph.D. Forensic Mental Health Science, Institute of Psychiatry, King's College London (2005-2009)

Stephane De Brito, Ph.D. *Presenter*

University of Birmingham, UK

Brain Responses During Face Processing in Conduct Disorder: Considering Sex and Callous-Unemotional Traits
Professor De Brito completed undergraduate studies in Psychology in Switzerland (2003; University of Geneva), followed by a move to the United Kingdom to read for a MPhil in Criminology (2004; University of Cambridge) and a PhD in Forensic Mental Health Science (2009; King's College London). Before moving to the University of Birmingham as a Birmingham Fellow in March 2012, Dr De Brito was a Post-doctoral Research Associate in the Developmental Risk and Resilience Unit in the Department of Psychology at University College London.

BSc. (Hons) Psychology, University of Geneva (1999-2003)

M.Phil. Criminology, Institute of Criminology, University of Cambridge (2003-2004)

Ph.D. Forensic Mental Health Science, Institute of Psychiatry, King's College London (2005-2009)

12:40 PM - 1:05 PM

Robert Blair, Ph.D. *Presenter*

Gentofte University Hospital, University of Copenhagen

Using Machine Learning Specified Classifiers of Neuro-Cognitive Function to Reveal Heterogeneity of Dysfunction in Patients with Conduct Disorder and Associations With Symptoms

1:05 PM - 1:30 PM

Jessica Todorov, M.A. *Presenter*

Centre for Human Brain Health, University of Birmingham

Differentiating Empathy Deficits and Aggression Profiles of Primary and Secondary Callous-Unemotional Traits in Conduct Disorder: Sex matters!

1:30 PM - 1:55 PM

Rachel C. Tomlinson, Ph.D. *Presenter*

University of California - San Francisco

The Nature and Nurture of Primary and Secondary Callous-Unemotional Traits: Evidence From Two Independent Twin Samples

1:55 PM - 2:20 PM

Travel Award Photos (In Person Only)

Sat 2 PM - 3 PM • Carleton

Break

Sat 2:30 PM - 3 PM • Grand Ballroom Foyer

Concurrent Symposia

Sat 3 PM - 5 PM

The Algorithm Will See You Now: From Subjective Ratings to Multimodal AI-Driven Psychiatric Assessments

Sat 3 PM - 5 PM • Symposia

Matteo Malgaroli, Ph.D. *Chair*

NYU School of Medicine

3 PM - 3:10 PM

John Torous, M.D. *Presenter*

Harvard Medical School

The Digital Clinic: Real World Experiences Using Novel Data in Care

3:10 PM - 3:35 PM

Katharina SchulteBraucks, Prof. Dr. *Presenter*

NYU Langone Medical Center

Scalable Digital Innovations in Real-World settings: Recent Advances in Digital Biomarkers and Large Language Models

3:35 PM - 4 PM

Matteo Malgaroli, Ph.D. *Presenter*

NYU School of Medicine

Leveraging Large Language Models and Phonetic Analysis to Predict Adjustment to Bereavement and Social Disruptions

4 PM - 4:25 PM

Isaac Galatzer-Levy, Ph.D. *Presenter*

Google

The Capability of Large Language Models to Measure and Differentiate Psychiatric Conditions through o Shot Learning

4:25 PM - 4:50 PM

The Link Between Brain Development and Trajectories of Youth Mental health: Initial Insights From Longitudinal Community and Clinical Cohorts

Sat 3 PM - 5 PM • Symposia

Erin Dickie, Ph.D. *Chair*

Centre for Addiction and Mental Health, University of Toronto

3 PM - 3:10 PM

Stephanie Ameis, FRCP(C), M.D., M.Sc. *Co-Chair*

The Centre for Addiction and Mental Health

Dr. Stephanie Ameis is a senior scientist and the Associate Director of the Cundill Centre for Child and Youth Depression at the Centre for Addiction and Mental Health (CAMH) and is appointed to the Child and Youth Mental Health Collaborative at CAMH, the University of Toronto and SickKids. She is also an associate professor in the Department of Psychiatry of the Temerty Faculty of Medicine at the University of Toronto and is Director of the Department of Psychiatry's Clinician Scientist Program.

Areas of Research

Dr. Ameis' research spans across: (1) neuroimaging research, studying biological mechanisms related to clinical symptoms, social cognition, neurocognition and behaviour across transdiagnostic samples, including children, youth and young adults with a variety of mental health challenges, (2) interventional research, focused on studying novel interventions to treat mental health symptoms in youth, and (3) implementation science and knowledge translation to improve uptake of research findings in her work with the Cundill Centre for Child and Youth Depression. Dr. Ameis has

a particular interest in developing evidence-based interventions to address depression and suicidal thinking in autistic youth.

Ruiyang Ge, Ph.D. *Presenter*

Djavad Mowafaghian Centre for Brain Health, University of British Columbia

CentileBrain - Normative Modeling of Brain Morphometry and Its Generalizability Across Ethnoracial Groups

3:10 PM - 3:35 PM

Grace Jacobs, Ph.D. *Presenter*

King's College London, Institute of Psychiatry

Mapping Overlapping Trajectories of Psychotic-Like Experiences and Social Difficulties in Early Adolescence and Their Links to Altered Brain Structure, Cognition, and Environmental Adversity

3:35 PM - 4 PM

Nicole Karcher, Ph.D. *Presenter*

Washington University in St. Louis

Longitudinal Trajectories of Cognition and Neural Metrics as Predictors of Psychosis Spectrum Symptoms Across Middle Childhood and Early Adolescence

4 PM - 4:25 PM

Erin Dickie, Ph.D. *Presenter*

Centre for Addiction and Mental Health, University of Toronto

Association of Psychosis Spectrum Symptoms With Deviations From Normative Brain Models in Mental Health Treatment Seeking Youth: Data From the Toronto Adolescent and Youth (TAY) Camh Cohort Study

4:25 PM - 4:50 PM

Focusing the Individual in Biological Psychiatry: Can We Assume Group-to-Individual Generalizability?

Sat 3 PM - 5 PM • Symposia

Matthew Mattoni, M.A. *Chair*

Temple University

3 PM - 3:10 PM

Matthew Mattoni, M.A. *Presenter*

Temple University

Assessing Group-To-Individual Generalizability in Biological Psychiatry

3:10 PM - 3:35 PM

Brian Kraus, M.A. *Presenter*

Washington University School of Medicine

Beyond Reliability: The Impact of Group-Defined Atlases on Neuroimaging Measurement Validity

4 PM - 4:25 PM

Kate Godfrey, Ph.D. *Presenter*

University of Minnesota

The Contribution of Daily Affect and Individual Identity for Explaining Functional Connectivity Variance in a Densely Sampled Adult Cohort

3:35 PM - 4 PM

Justin Riddle, Ph.D. *Presenter*

Florida State University

Concurrent Non-Invasive Brain Stimulation and Behavioral Activation Psychotherapy Increases Goal-Directed Behavior in MDD: A Double-Blind Placebo-Controlled Randomized Pilot Clinical Trial

4:25 PM - 4:50 PM

Beyond the Prefrontal Cortex: Posterior Brain Regions as TMS Targets

Sat 3 PM - 5 PM • Symposia

Joseph Taylor, M.D., Ph.D. *Chair*

Center for Brain Circuit Therapeutics, Brigham and Women's Hospital, Harvard Medical School

Joseph J. Taylor, MD, PhD (Joe) obtained his MD and PhD in 2015 at the Medical University of South Carolina. Next, he completed psychiatry residency as a member of the Neuroscience Research Training Program at Yale and a Sidney Baer, Jr. Clinical Neuroscience Fellowship in the Berenson-Allen Center for Non-Invasive Brain Stimulation at Beth Israel Deaconess Medical Center. He joined the BWH faculty in 2020. Joe serves as Medical Director of Transcranial Magnetic Stimulation (TMS) and Clinical Trials Director in the Center for Brain Circuit Therapeutics. He also serves as Director of the Interventional Psychiatry Research Program. His research primarily focuses on deriving and testing brain circuit targets for brain stimulation or neurosurgical ablation. Throughout his career, Joe has received funding from the Howard Hughes Medical Institute, the National Institute on Drug Abuse, the National Institute of Mental Health, the Sidney R. Baer, Jr. Foundation, the Baszucki Group, the Brain and Behavior Research Foundation, Harvard Medical School, and Mass General Brigham.

3 PM - 3:10 PM

Kristen Ellard, Ph.D. *Co-Chair*

MGH/Harvard Medical School

Joan Camprodon, M.D., M.P.H., Ph.D. *Presenter*

Massachusetts General Hospital, Harvard Medical School

Precision Suicide Therapeutics Using Image-Guided Accelerated Tms to the Inferior Parietal Lobule: An Experimental Medicine Approach

Dr. Camprodon is Chief of the Division of Neuropsychiatry at Massachusetts General Hospital and an Associate Professor of Psychiatry at Harvard Medical School. Clinically, he is the founding director of the MGH Transcranial Magnetic Stimulation (TMS) clinical service, a member of the Psychiatric Neurosurgery Committee and an attending physician in the departments of Psychiatry (Neuropsychiatry) and Neurology (Cognitive and Behavioral Neurology). He

is board-certified in Psychiatry and Behavioral Neurology-Neuropsychiatry.

Scientifically, he directs the Laboratory for Neuropsychiatry and Neuromodulation. His research uses multimodal combinations of brain stimulation, neuroimaging, neurophysiology and behavioral methods to investigate neural circuitry and plasticity in a translational manner. His laboratory works with a wide range of noninvasive and invasive neuromodulation techniques including transcranial direct current stimulation (tDCS), transcranial magnetic stimulation (TMS), electroconvulsive therapy (ECT) and deep brain stimulation (DBS) among others. He also uses functional and structural MRI, EEG and innovative simultaneous combinations of TMS and tDCS with neuroimaging.

Dr. Camprodon is interested in understanding circuit properties of human neural networks and how maladaptive plastic changes lead to neuropsychiatric disorders. The scope of his research includes basic, translational and clinical projects focused on circuit neuroscience. Current projects address the anatomy and physiology of disease-relevant networks as well as the investigation of pathophysiological mechanisms at the circuit level, with an emphasis on transdiagnostic processes. Critical translational efforts are geared towards applying the paradigms and methods of human systems and cognitive neuroscience to develop tools with the potential to change clinical practice: e.g. identify biomarkers and predictors, discover treatment targets and design individualized precision therapies with an emphasis on device-based neuromodulation.

3:10 PM - 3:35 PM

Kristen Ellard, Ph.D. *Presenter*

MGH/Harvard Medical School

Targeting Emotion Regulation Deficits in Bipolar Disorder Using TMS to the Inferior Parietal Lobule

3:35 PM - 4 PM

Nicholas Trapp, M.D., M.S. *Presenter*

University of Iowa Department of Psychiatry

A Double-Blind, Randomized, Sham-Controlled Clinical Trial of Cerebellar Intermittent Theta Burst Stimulation for Bipolar disorder: Safety, Tolerability, Mood and Cognitive Effects

4 PM - 4:25 PM

Indrit Bègue, Ph.D. *Presenter*

Department of psychiatry, University of Geneva, Switzerland

A Stable Anti-Coactivation Pattern Between the Cerebellum and Ventral Tegmental Area Relates To Negative Symptoms in Schizophrenia: Implications for Neuromodulation Targets

4:25 PM - 4:50 PM

The Accelerating Medicines Partnership Schizophrenia (AMP-SCZ) Project: Prior Findings and Future Prospects for Four Biomarker Domains in Individuals at Clinical High Risk for Psychosis

Sat 3 PM - 5 PM • Symposia

Daniel Mathalon, M.D., Ph.D. *Chair*

University of California, San Francisco

3 PM - 3:10 PM

Carrie Bearden, Ph.D. *Co-Chair*

University of California, Los Angeles

Justin Baker, M.D., Ph.D. *Presenter*

McLean Hospital

Integrating Clinical and Digital Measures in the AMP SCZ Project

3:10 PM - 3:35 PM

Phillip Wolff, Ph.D. *Presenter*

Emory University

Leveraging AI and Language Analysis to Predict Psychosis Risk in Clinical High-Risk Individuals

3:35 PM - 4 PM

Holly Hamilton, Ph.D. *Presenter*

University of Minnesota & Minneapolis VA Health Care System

Mismatch Negativity as a Predictor of Future Outcomes Among Individuals at Clinical High-Risk for Psychosis:

Parsing Components of Auditory Predictive Coding in the North American Psychosis-Risk Longitudinal Study

(NAPLS3) Sample

4 PM - 4:25 PM

Walid Yassin, Dr. Med. Sc., M.Sc. *Presenter*

BIDMC/Harvard Medical School

Cognitive Assessment in the Amp Scz Initiative: Harmonization Priorities and Strategies in a Diverse International Sample

4:25 PM - 4:50 PM

Artificial Intelligence and Multimodal Data to Predict Outcomes of Antidepressant Treatment in Major Depressive Disorder

Sat 3 PM - 5 PM • Symposia

Henricus Ruhe, M.D., Ph.D. *Chair*

Department of psychiatry, Radboudumc, Nijmegen, the Netherlands

3 PM - 3:10 PM

Madhukar Trivedi, M.D. *Co-Chair*

U.T. Southwestern Medical Center

Peter Zhukovsky, Ph.D. *Presenter*

Centre for Addiction and Mental Health, University of Toronto

Cross-Trial Generalization of Behavioral and Neuroimaging Markers for Treatment Response in Major Depression:
Evidence From Embarc and Canbind Studies

BA, University of Cambridge

PhD, University of Cambridge

Postdoctoral Fellowship, Centre for Addiction and Mental Health

Postdoctoral Fellowship, McLean Hospital, Harvard Medical School

Independent Scientist, Centre for Addiction and Mental Health

3:10 PM - 3:35 PM

Maarten Poiriot, M.Sc. *Presenter*

Academic Medical Centre, University of Amsterdam

Treatment Outcome Prediction in Major Depressive Disorder Using Multimodal Magnetic Resonance Imaging and
Clinical Data

3:35 PM - 4 PM

Faranak Farzan, Ph.D., Prof. *Presenter*

Simon Fraser University

Identifying a Generalizable Link Between Neural Oscillations and Depressive Symptoms

4 PM - 4:25 PM

Jane Foster, Ph.D. *Presenter*

The University of Texas Southwestern Medical Center, Department of Psychiatry

Polygenic Risk Scores for Heritable Gut Microbes Predict Antidepressant Response

4:25 PM - 4:50 PM

The Neurobiological Correlates of Suicidality and Mental Distress in Sexual and Gender Minorities

Sat 3 PM - 5 PM • Symposia

Kristen Eckstrand, M.D., Ph.D. *Chair*

University of Pittsburgh

3 PM - 3:10 PM

David Pagliaccio, Ph.D. *Co-Chair*

Columbia University Irving Medical Center & New York State Psychiatric Institute

Andrew Nicholson, Ph.D. *Presenter*

University of Ottawa

Identity in Turmoil: Investigating the Morally Injurious Dimensions of Minority Stress

4 PM - 4:25 PM

Kristen Eckstrand, M.D., Ph.D. *Presenter*

University of Pittsburgh

Social Neural Circuitry and Emotional Responses to Social Threat Impact Suicidal Thoughts in High-Risk Young Adults

3:10 PM - 3:35 PM

Corinne Carlton, Ph.D. *Presenter*

Vanderbilt University

Neural Emotional Reactivity Moderates Depressive Symptoms in Sexual Minority Adolescents

4:25 PM - 4:50 PM

Alexandra Potter, Ph.D. *Presenter*

University of Vermont

Factors Affecting the Mental Well-Being of Sexual and Gender Minority (SGM) Youth: Insights From the Adolescent Brain Cognitive Development (ABCD) Study

3:35 PM - 4 PM

Oral Session IV: Schizophrenia Spectrum Disorders

Sat 3 PM - 5 PM

Aberrant Cerebellar-Cortical Connectivity Contributes to Social Cognitive Deficits in Schizophrenia

Sat 3:05 PM - 3:16 PM • Oral Presentation

Scott Blain, Ph.D. *Presenter*

The Ohio State University

Investigating State Transitions of Psychotic-Like Experiences in Early Adolescence

Sat 3:16 PM - 3:27 PM • Oral Presentation

Debbie Burdinski, B.S. *Presenter*

Harvard Medical School and MIT

I am an MD/PhD student in Satrajit Ghosh's lab and work in the area of psychiatry and neuroimaging.

Computational Modeling of Cognitive Flexibility Reveals Novel Dissociations Across Disorders with and Without Repetitive Behaviors

Sat 3:27 PM - 3:28 PM • Oral Presentation

Jonathan Kanen, M.D., Ph.D. *Presenter*

Department of Psychiatry, The Mount Sinai Hospital, New York, NY

A Prefrontal Thalamocortical Readout for Conflict-Related Executive Dysfunction in Schizophrenia

Sat 3:38 PM - 3:49 PM • Oral Presentation

Anna Huang, Ph.D. *Presenter*

Vanderbilt University Medical Center, Psychiatry

Anna Huang is a Research Assistant Professor in Psychiatry and Behavioral Sciences and Vanderbilt University Medical Center (VUMC). Anna obtained her doctorate in psychology, integrative neurosciences concentration at Stony Brook University in New York, and completed a one year postdoctoral training at Mt Sinai Medical Center before completing her postdocotral training at VUMC and joining the faculty in 2022. Anna is actively engaged in research and teaching. Her research focuses on using neuroimaging and other cognitive neuroscience methods to study the neural processes of cognition in the healthy and developmental brain, and cognitive impairment in psychopathologies, focusing on psychotic disorders. She is particularly focused on the involvement of the thalamocortical system in executive functioning. In addition to research, she is Co-Director of the Brain, Behavior and Movement course in the Vanderbilt Medical School, and Chair of the Diversity, Equity and Inclusion Research Sub-committee. Her clinical activities involve performing presurgical fMRI evaluations of individuals with epilepsy and other neurological disorders. She provides mentorship to undergraduate students with an interest in psychology, cognitive sciences or neuroscience.

Variants in DENND2B Are Associated with Vulnerability for Neurodevelopmental impairment, Psychosis and Catatonia

Sat 3:49 PM - 4 PM • Oral Presentation

Jacob Vorstman, M.D., Ph.D. *Presenter*

University of Toronto/Hospital for Sick Children

Dr. Vorstman studies genotype-phenotype relations in neurodevelopmental disorders, in particular autism, intellectual disability and schizophrenia. His clinical and research focus is on children with rare genetic risk variants associated with neurodevelopmental outcomes. His work has contributed to insights into the genetic architecture underlying these disorders, helped improve methods to measure the associated phenotypes and uncovered strategies to improve early prediction of developmental and psychiatric trajectories in the individual patient.

Whole Genome Sequence Study of Multiplex Psychosis Pedigrees

Sat 4 PM - 4:11 PM • Oral Presentation

Emma Knowles, Ph.D. *Presenter*

Boston Childrens Hospital & Harvard Medical School

The Antagonism of D2 Receptors Amplifies Temporal Autocorrelation in the Striatum

Sat 4:11 PM - 4:22 PM • Oral Presentation

Ashkhan Davani, M.D. *Presenter*

Feinstein Institutes for Medical Research / Northwell Health

Parsing Heterogeneity in Medication-Naïve First Episode Psychosis Patients Using Positive Symptom Trajectories and Resting State Functional Connectivity MRI: A Group-Based Multivariate Trajectory Approach

Sat 4:22 PM - 4:33 PM • Oral Presentation

Jose Maximo, Ph.D. *Presenter*

University of Alabama at Birmingham

Estrogen and Mechanisms of Psychotic-Like Experiences in the Transition to Adolescence: Developmental Insights into Resilience from Women's Health

Sat 4:33 PM - 4:44 PM • Oral Presentation

Katherine Damme, Ph.D. *Presenter*

University of Texas Dallas

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Lack of Dopamine Release in First-Degree Relatives of Schizophrenia - A Simultaneous PET/fMRI Fear Conditioning Study

Sat 4:44 PM - 4:55 PM • Oral Presentation

Rami Hamati, B.Sc., M.Sc. *Presenter*

University of Ottawa Institute of Mental Health Research

Poster Session III

Sat 5 PM - 7 PM • Sheraton Hall