

TANENBAUM SYMPOSIUM 2024

**Precision Medicine for Epilepsy
and Related
Neurodevelopmental and
Neuropsychiatric Disorders**

Oct. 10, 2024

8:30am to 5pm

BMO Centre, Krembil Research

Tower, 60 Leonard Ave. Toronto

REGISTER

Tanenbaum Symposium 2024: Program

8:30am – Registration

8:45-9:00am – Welcome

- Dr. Peter Carlen and Dr. Jaideep Bains

9:00-10:30am – Genetics in Epilepsy: Optimizing Diagnoses and Treatment

- Chair: Dr. Danielle Andrade
- Dr. Danielle Andrade - Genetic Epilepsies: From Neurodevelopmental to Neurodegenerative Disorders
- Dr. James Eubanks - Precision Medicine: How a Patient-Specific Mouse Model Facilitated the Identification of a Prospective treatment for CDKL5 Deficiency Disorder
- Dr. Anne Bassett - Disease Mechanisms and Treatment in a Human Genetic Model of Schizophrenia
- Q&A

10:30-10:45am – Break

10:45am-12:15pm – Mitochondria: Understudied Key Factor in Diagnosing and Treating Epilepsy

- Chair: Dr. Ana Andrezza
- Dr. Shebani Sethi, Keynote Speaker - Metabolic Psychiatry: Ketogenic therapy in Schizophrenia and Bipolar - Results from a Pilot Clinical Trial
- Dr. Ana Andrezza and Jaehyoung Choi - Brain, Mitochondria & Metabolism: Transdiagnostic Dimensions, and Using AI to Assess Mitogene Risk in Bipolar and Other Neuropsychiatric Disorders
- Q&A

12:15-1:45pm - Lunch Break and Posters from Labs and Interested Companies

1:45-3:15pm – New Technologies for Precision Medicine in Brain Disorders

- Chair: Dr. Peter Carlen
- Dr. Peter Carlen - Using 2D and 3D (Organoid) Cerebral Cultures to Diagnose and Treat Developmental Epileptic Encephalopathies
- Dr. Liliana Attisano - Developing Complex Human Brain Organoid Models
- Dr. Amy Ramsey - AAV-Mediated Gene Therapy for GRIN Neurodevelopmental Disorder
- Q&A

3:15-3:30pm – Break

3:30-4:45pm – Precision Medicine and Industry

- Chair: Dr. Miron Derchansky
- Dr. Mark Tarnopolsky - The Use of Multi-Ingredient Supplements to Target Mitochondrial Dysfunction in Neurological Disorders
- Dr. Miron Derchansky - De-Risking Clinical Trials with Precision Medicine and Digital Biomarkers
- Dr. Amza Ali - Precision and Imprecision Medicine: Outreach to the Developing World
- Q&A

4:45-5:00pm – Closing Remarks