

AGENDA

MORNING SESSION: (8:00 AM – 12:00 PM)

8:00 – 9:00 AM REGISTRATION AND BREAKFAST, POSTER SET-UP

9:00 – 9:10 AM OPENING REMARKS
DR. BRADLY WOUTERS, EXECUTIVE VICE PRESIDENT, SCIENCE AND RESEARCH

9:10 – 9:15 AM OPENING CEREMONIES
DR. DONALD WEAVER, DIRECTOR, KREMBIL RESEARCH INSTITUTE

9:15 – 10:30 AM ORAL SESSION I
CHAIR: DR. JOAN WITHER

(9:15 – 9:30) **Kevin Siyue Chen** Evaluating Efficacy Of Small Molecules Predicted By Artificial Intelligence to Reduce α -Synuclein Oligomers
 PI: Dr. Lorraine Kalia

(9:30 – 9:45) **Mayuri Gupta** The Blood Brain Barrier (BBB) Score: Efficient Computational Algorithm for Predicting Brain Permeability
 PI: Dr. Donald Weaver

(9:45 – 10:00) **Dario Ferri** Interferon-Alpha Disrupts DNA-Specific B Cell Tolerance In 3H9 Mice
 PI: Dr. Joan Wither

(10:00 – 10:15) **Arturo Ortin Martinez** Transplanted Photoreceptors Exchange Cytoplasmic Material to the Host Photoreceptors Through Neurite Extensions
 PI: Dr. Valerie Wallace

(10:15 – 10:30) **Paige Whyte-Fagundes** Panx1 Knockout Fish as a Model to Investigate Seizure Activity
 PI: Dr. Georg Zoidl

10:30 – 11:00 AM ELEVATOR PITCHES
CHAIR: DR. MARY PAT McANDREWS

(10:35 – 10:39) **Melisa Gumus** Evaluating the Relationship between Subject Specific Functional-Structural Connectomes and Cognitive Measures in Patients with Post-Concussion Syndrome
 PI: Dr. Carmela Tartaglia

(10:39 – 10:43) **William Luong** Genome Engineering Human Neural Precursor Cells for Closed-Loop Delivery of Chondroitinase ABC
 PI: Dr. Michael Fehlings

(10:43 – 10:47) **Alexandra Chatzikalymniou** Towards a Cellular-Based Understanding of Theta/Gamma Rhythms and Their Cross-Frequency Coupling in the Hippocampus
 PI: Frances Skinner

(10:47 – 10:51) **Prakasham Rumajogee** Synergistic Effect of Constraint-Induced Movement Therapy (CIMT) and Neural Precursor Cell (NPC) Transplantation in the Corpus Callosum of the Hemiplegic Mouse Model
 PI: Dr. Michael Fehlings

(10:51 – 10:55) **Prajay Shah** Functional Heterogeneity of Human and Mouse Layer 5 Pyramidal Neurons
 PI: Dr. Taufik Valiante

(10:55 – 10:59) **Nicole Yan** A novel in vitro model of intracellular protein exchange between primary photoreceptors
 PI: Dr. Valerie Wallace

11:00 AM – 12:00 PM POSTER VIEWING & JUDGING
 COFFEE BREAK

12:00 – 1:00 PM LUNCH



AGENDA (CONTINUED)

AFTERNOON SESSION: (1:00 PM – 3:30 PM)

1:00 – 2:00 PM ORAL SESSION II

CHAIR: DR. BILL HUTCHISON

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| (1:00 – 1:15) | Brian Wu
PI: Dr. Mohit Kapoor | Ephrin B2 Signaling in the Development of Pulmonary Fibrosis |
| (1:15 – 1:30) | Scott Rich
PI: Dr. Frances Skinner | Modeling Implicates Inhibitory Network Bistability as an Underpinning of Seizure Initiation |
| (1:30 – 1:45) | Lizabeth Ayoub
PI: Dr. Mary Pat McAndrews | The Medial Temporal Lobe in Nociception: A Meta-Analytic and Functional Connectivity Study |
| (1:45 – 2:00) | Kramay Patel
PI: Dr. Taufik Valiante | Volitional Control of Individual Neurons in the Human Mesial Temporal Lobe Using Intracranial Neurofeedback |

2:00 – 3:00 PM KEYNOTE SPEAKER: DR. AMIT ETKIN, MD, PHD

ASSOCIATE PROFESSOR OF PSYCHIATRY AND BEHAVIOURAL SCIENCES

STANFORD SCHOOL OF MEDICINE

“A ‘CIRCUITS – FIRST’ APPROACH TO MENTAL ILLNESS”

3:00 – 3:30 PM AWARDS

PRESENTED BY: DR. MARY PAT McANDREWS, CHAIR OF TAC AND DR. DONALD WEAVER, DIRECTOR OF KREMBIL RESEARCH INSTITUTE