



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) **Caspian Sawczak** Episodic Simulation and Prosocial Intentions in Medial Temporal Lobe Epilepsy
 PI: Dr. Mary Pat McAndrews

(9:30 – 9:45) **Alejandro Gomez-Aristizabal** Monocyte/Macrophages in Osteoarthritic Synovial Fluid are Correlated With Patient-Reported Outcomes
 PI: Dr. Sowmya Viswanathan

(9:45 – 10:00) **Michael Chang** Brief Activation of GABAergic Interneurons Initiates the Transition to Ictal Events Through Post-Inhibitory Rebound Excitation
 PI: Dr. Taufik Valiante

(10:00 – 10:15) **John Griffiths** Influence of Cortical Network Topology and Delay Structure on EEG Rhythms in a Whole-Brain Connectome-Based Thalamocortical Neural Mass Model
 PI: Dr. Jérémie Lefebvre

(10:15 – 10:30) **Alex Laliberte** Expression of MicroRNA-21 in Non-Traumatic Spinal Cord Injury is Associated With Inflammation and Poor Motor function
 PI: Dr. Michael Fehlings

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

(10:35 – 10:39) **Jonathon Chio** Drug Repurposing: High Dose Human Immunoglobulin G for Treatment of Traumatic Cervical Spinal Cord Injury
 PI: Dr. Michael Fehlings

(10:39 – 10:43) **Paige Whyte-Fagundes** Forebrain Electrophysiological Recording of Seizure Activity in Genetically Modified Zebrafish Larvae
 PI: Dr. Georg Zoidl

(10:43 – 10:47) **Brian Wu** Endothelial Ephrin Signalling in Pulmonary Fibrosis
 PI: Dr. Mohit Kapoor

(10:47 – 10:51) **Emeline Boulanger** Longitudinal Study of 834 Concussed Patients to Highlight Factors That Contribute to the Development of Postconcussion Syndrome (PCS)
 PI: Dr. Charles Tator

(10:51 – 10:55) **Neil Drummond** Applying Event-Related Deep Brain Stimulation to Investigate the Casual Role of the Subthalamic Nucleus in Stopping
 PI: Dr. Robert Chen

(10:55 – 10:59) **Mable Wing Yan Chan** Differential Effects of Ex Vivo Polarized Monocytes/Macrophages in a Human Joint Explant Model of Osteoarthritis
 PI: Dr. Sowmya Viswanathan

(10:59 – 11:03) **Gerard O'Leary** Machine Learning Based Responsive Brain Stimulation Device: An Epilepsy Clinical Trial
 PI: Taufik Valiante

11:05 AM – 12:05 PM POSTER VIEWING & JUDGING
 COFFEE BREAK

12:05 – 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) | Foad Taghdiri
PI: Dr. Carmela Tartaglia | A Novel Visual Task as an Indicator of White Matter Integrity and Cortical Thickness in Retired Professional Athletes With Multiple Concussions |
| (1:15 – 1:30) | James Saravanamuttu
PI: Dr. Robert Chen | Motor Cortical Circuit Interactions in Parkinson's Disease |
| (1:30 – 1:45) | Serene Wong
PI: Dr. Igor Jurisica | Learning from Temporal Relationships |
| (1:45 – 2:00) | Helal Endisha
PI: Dr. Mohit Kapoor | MicroRNA-34a: Role in the Development of Osteoarthritis During Obesity |

2:00 – 3:00 PM KEYNOTE SPEAKER: DR. SAMER HATTAR, PHD

CHIEF AND SENIOR INVESTIGATOR, SECTION ON LIGHT AND CIRCADIAN RHYTHMS (SLCR)

NATIONAL INSTITUTE OF MENTAL HEALTH

"ON LIGHT AND MOOD"

3:00 – 3:30 PM AWARDS FOR: ORALS, POSTERS & PEOPLE'S CHOICE AWARDS (3-MINUTE ELEVATOR PITCH)

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

3:30 – 5:00 PM RECEPTION