Epilepsy 2020: a vision of the future in epilepsy research

A symposium to honor Jean Gotman and Marilyn Jones-Gotman

May 8 & 9, 2020

The Neuro, 3801 University Street, Montreal (Jeanne Timmins Amphitheatre)

Scientific Program

May 8 - Biomarkers of epileptogenicity: neurophysiology and imaging

8:30 - 9:00  Welcoming speech – Introduction to Day 1  
Dang Nguyen and François Dubeau, Canada

Session 1: High Frequency Oscillations, a new biomarker in epilepsy  
(Chair: tbc)

9:00 - 9:40  Where do they come from and where are they going?  
Pete Engel, USA

9:40 - 10:20  HFOs: Do they really mark the epileptic tissue?  
Julia Jacobs, Canada

10:20 - 10:40  Refreshment pause

10:40 - 11:20  Back to the future: Is ECoG the answer?  
Maeike Zijlmans, Germany

11:20 - 12:00  Separating healthy from epileptic HFOs  
Birgit Frauscher, Canada

12:00 - 13:15  Lunch and Poster session - neurophysiology

13:15 - 14:10  Keynote - Gloor lecture: EEG and epilepsy – the future  
Samuel Wiebe, Canada

Session 2: Probing the epileptic focus from inside and from outside  
(Chair: tbc)

14:10 - 14:50  Finding the epileptic focus with functional imaging  
Graeme Jackson, Australia

14:50 - 15:10  Refreshment pause
15:10 - 15:50  Connecting extra- & intra-cerebral signals: How EEG & MEG relate to intracerebral EEG  
Christian Bénar, France

15:50 - 16:30  Functional connectivity and network hubs in focal epilepsy  
Christophe Grova, Canada

16:30 - 17:10  Diagnostic and therapeutic use of neurostimulation  
Philippe Kahane, France

17:10 - 17:40  Recollections

May 9 - Cognition and sensory systems in healthy and diseased subjects

8:30 - 9:00  Welcoming speech – Introduction to Day 2  
Julien Doyon, Canada

Session 3: Neuropsychology in epilepsy and other neurological disorders  
(Chair: tbc)

9:00 - 9:40  History, major achievements, and future of neuropsychology in epilepsy  
Gail Risse, USA

9:40 - 10:20  Cognition and olfaction in Parkinson’s disease  
Jelena Djordjevic, Canada

10:20 - 10:40  Refreshment pause

10:40 - 11:20  Sex differences in normal cognition and neurological disease  
Sarah Banks, USA

11:20 - 12:00  Neurocognitive impact of seizures and epilepsy surgery on children with epilepsy  
Mary Lou Smith, Canada

12:00 - 13:15  Lunch and Poster Session - neuropsychology

13:15 - 14:10  Keynote lecture: Dietary influences on brain function and cognition  
Dana Small, USA
Session 4: Epilepsy research widens Penfield’s window on the brain
(Chair: tbc)

14:10 - 14:50  How hunger-related changes in hypothalamic neurons influences cortical processing of food-predicting cues
               Mark Andermann, USA

14:50 - 15:10  Refreshment pause

15:10 - 15:50  Differences in brain structure related to expertise: Brain training
               Johannes Frasnelli, Canada

15:50 - 16:30  Language experience and its role in changing our brains
               Denise Klein, Canada

16:30 - 17:10  Population Neuroscience: Merging old and new to learn more
               Tomas Paus, Canada

17:10 - 17:40  Recollections