

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 (Chairs: Eishi Asano, George Kosopoulos)

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, The Netherlands

11:20 - 12:00 Separating healthy from epileptic HFO's
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 (Chairs: Michael Sperling, Louise Tyvaert)

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
(Chairs: Michael Petrides, Viviane Sziklas)

- 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

(Chairs: Johan Lundstrom, Cathy Rouby)

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| 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 |