

# Honouring Jean Gotman and Marilyn Jones-Gotman



## NEUROPHYSIOLOGY, NEUROPSYCHOLOGY, EPILEPSY, 2022: HILLS WE HAVE CLIMBED AND THE HILLS AHEAD

May 27 & 28, 2022

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

Scientific Program

### May 27 – Biomarkers of epileptogenicity: Neurophysiology and imaging

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

#### Session 1: High Frequency Oscillations, a new biomarker in epilepsy

Chairs: Eishi Asano, USA; George Kostopoulos, Greece

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

9:40-10:40 HFO's: 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 the 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 Gloor lecture: EEG and epilepsy – The future  
Samuel Wiebe, Canada

#### Session 2: Probing the epileptic focus from inside and from outside

Chairs: Michael Sperling, USA; Louise Tyvaert, France

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

- 14:50-15:10 Refreshment pause
- 15:10-15:50 Connecting extra and intra cerebral signals: How EEG and MEG relate to intracerebral EEG  
Christian Benar, 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 28 – 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 and Viviane Sziklas, Canada

- 9:00-9:40 History, major achievements, and future neuropsychology in epilepsy  
Gail Risse, USA
- 9:40-10:20 Neurocognitive impact of seizures and epilepsy surgery on children with epilepsy  
Mary Lou Smith, 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 Cognition and olfaction in Parkinson's disease  
Jelena Djordjevic, 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: Beyond epilepsy, a widened window on the brain

Chairs: Johan Lundstrom, Sweden; Catherine Rouby

- 14:10-14:50 How hunger-related changes in hypothalamic neurons influence 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 our changing 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