

Title

Special EEG and MRI session presented by Neuroimaging of Epilepsy Worldwide (NEW)

Monday, June 2nd, 10:00-11:30

Room A.03.9222, Amphithéâtre Pierre-Péladeau, CHUM

Abstract

Join us for a Special EEG and MRI session presented by Neuroimaging of Epilepsy Worldwide! This session will highlight cutting-edge advances in multimodal imaging, with a focus on the integration of EEG and MRI in the diagnosis, localization, and treatment planning of epilepsy. Trainees and established researchers will share insights from their latest work, and present novel research aimed at improving outcomes for individuals with epilepsy through advanced techniques in neuroimaging and electrophysiology.

Session schedule

10:00 - 10:05: Introduction

Co-chairs: Jessica Royer and Nishant Sinha

10:05 - 10:25: Presentation 1

Combining tractography and intracranial EEG to define the structural epileptic network

Arash Sarshoghi (Université de Montréal, Canada)

10:25 - 10:45: Presentation 2

Combining MRI and EEG to map the microstructure, morphology, and hemodynamics of epileptogenic networks: current work and future directions

Ella Sahlas (McGill University, Canada)

10:45 - 11:05: Presentation 3

Diminished circadian and ultradian rhythms of human brain activity in pathological tissue in vivo

Yujia Wang (Newcastle University, UK)

11:05 - 11:25: Presentation 4

Normative modeling of structural brain imaging to determine resistance to antiseizure medications in focal epilepsy

Daniel Zhou (University of Pennsylvania, USA)

11:25 - 11:30: Closing remarks

Co-chairs: Jessica Royer and Nishant Sinha