

Eastern Association of Electroencephalographers (EAEEG) 77th Annual Meeting

Main Street Landing, Burlington, VT
February 11-12, 2023

Saturday, February 11

- 8:00-8:30am** **Registration, Continental Breakfast, and Exhibits**
- 8:30-9:45** **Symposium #1 - Origins of Oscillations: Novel Basic Science Approaches to Analysis and Interpretation of EEG**
- ❖ **Oscillations in the Ventral Striatum: State, Endophenotype, or Mechanism for Flexible Communication?**
Matthijs van der Meer, MS, PhD
 - ❖ **Traveling UP States in the Head-Direction Cortex Reveal an Anatomical Gradient of Intrinsic Properties**
Dhruv Mehrotra, BSc
 - ❖ **EEG, VR and Machine Learning Approaches to the Healthy Human Brain**
David Jangraw, MS, PhD
- 9:45-11:00** **Symposium #2 - Origins of Pathological Oscillations in Translational Models**
- ❖ **Pathological Oscillations in the KCNT1 of Developmental Epilepsy**
Jeremy Barry, PhD
 - ❖ **Pathological High Frequency Oscillations in Models of Epilepsy and Alzheimer's Disease**
Christos Lisgaras, PhD
 - ❖ **Acetylcholine and Properties of Theta Oscillations Post Experimental Febrile Status Epilepticus**
Michelle Kloc, PhD
- 11:00-11:15** **BREAK**
- 11:15-12:15pm** **Milner Lecture**
Amygdala Stimulation and Emotion
Krzysztof Bujarski, MD
- 12:15-1:00** **Lunch and Exhibits**
- 1:00-2:00** **Presidential Lecture**
Slow-wave Sleep, Slow Waves and Epileptogenesis
Igor Timofeev, PhD
- 2:00-4:00** **Symposium 3A - Past President's Lecture Part 1**
- ❖ **Optogenetic Modulation of Hippocampal Oscillations Ameliorates Spatial Cognition and Hippocampal Dysrhythmia Following Early-life Seizures**
Gregory L. Holmes, MD
 - ❖ **Compassionomics: The Revolutionary Scientific Evidence That Caring Makes a Difference**
Michael Goodman, MD, MMM, FAAP, FAES
 - ❖ **Epilepsy in Tuberous Sclerosis Complex**
Philippe Major, MD, FRCPC
 - ❖ **Seizures and Epilepsies in the Developing Brain: Nothing is Written in Stone**
Solomon L. Moshe, MD

- 4:00-4:15** **BREAK**
- 4:15-5:15** **Kershman Lecture**
Childhood Epilepsy: Treatment, Comorbidity, and Policy
Lionel Carmant, MD
- 5:30-6:30** **Welcome Reception – Hosted by the Department of Neurological Sciences, UVM**
- 7:00** **Dinner on Your Own**
Informal gathering at the Archives (College Street location) organized by Jeremy Barry, PhD

Sunday, February 12

- 7:00-7:30am** **Continental Breakfast**
- 7:30-10:00** **Symposium 3B - Past President's Lecture Part 2**
- ❖ **Bidirectional Relationship Between Sleep and Epilepsy**
Steve Gibbs, MD
 - ❖ **Epilepsy in the Elderly: Special Considerations and Management**
Charles Deacon, MD
 - ❖ **Advances in Intraoperative Neurophysiological Monitoring**
Erik J. Kobylarz, MD, PhD
 - ❖ **Spreading Confusion: Physiological and Pathological Insights into Spreading Depolarizations and Spreading Depression**
Peter Carlen, MD, FRCPC
 - ❖ **Cannabinoids for Drug-Resistant Epilepsy**
Mac Burnham, PhD
- 10:00-10:15** **BREAK**
- 10:15–11:45** **Symposium #4 – Autism: From Slice to the Clinic**
- ❖ **The Pten Knockout Model of Autism: Cells, Networks and Cognitive Dysfunction**
Bryan Luikart, PhD
 - ❖ **EEG and the Time-Locked Neurodynamics of Semantic Processing in Autism Spectrum Disorder**
Emily Coderre, PhD
 - ❖ **Biomarkers Obtained by Transcranial Magnetic Stimulation (TMS) in Autism**
Alexander Rotenberg, MD, PhD
- 11:45-1:00 pm** **Symposium #5 – Free Communications**
- ❖ **Hippocampal Kindling and NMDA Sensitivity in a Model of CDKL5 Deficiency Disorder**
MS Fallah, D Szarics, E Sidorova-Darmos, R Logan, L Zhang, WM Burnham, JH Eubanks
 - ❖ **Risk of New-onset Stroke in Older People with Epilepsy without Prior History of Stroke: A Study of the Canadian Longitudinal Study of Aging (CLSA)**
Jimmy Li, Nathan Shlobin, Roland D Thijz, Charles Deacon, Mark R Keezer

❖ **Investigating Neuronal Network Hyperexcitability in a Personalized Model of HNRNPH2-related Neurodevelopmental Disorder**

D Szarics, MS Fallah, L Zhang, JH Eubanks

❖ **Manifold of Heterogeneous Vigilance States across the Cortex**

Julia Wang, Sylvain Chauvette, Robert Kwapich, Igor Timofeev, and Tatiana A. Engel

❖ **Antiseizure Effects of a New Preparation of CBD in the MES Model**

Han Zhong Zhou, Brian Scott and McIntyre Burnham

1:30

Business Meeting