

## 2025 Western Epilepsy Research Day Agenda

<b>Sign In &amp; Refreshments</b>	<b>7:45 - 8:00 am</b>
<b>Welcome &amp; Acknowledgements</b>	<b>8:00 - 8:10 am</b> <ul style="list-style-type: none"> <li>• Land Acknowledgement</li> <li>• Donor Acknowledgment</li> </ul>
<b>Keynote Speaker: Dr. Neda Ladbon-Bernasconi</b>	<b>8:10 - 9:10 am</b> <i>Computational neuroimaging of intractable epilepsy: From understanding disease processes to prediction of clinical outcomes</i>
<b>Epilepsy Southwestern Ontario Talk: Heather Brooks</b>	<b>9:10 - 9:55 am</b> <i>The Global Epilepsy Needs Study</i>
<b>Coffee Break - Poster Browsing</b>	<b>9:55 - 10:15 am</b>
<b>Western Epilepsy Research Group Updates &amp; Future Directions</b>	<b>10:15 - 10:55 am</b>
<b>Research Talks &amp; Discussion</b>	<b>10:55 - 11:40 am</b> <b>10:55 – 11:05 am</b> <i>Multiscale analysis of mesial temporal lobe epilepsy: Anatomo-Electrophysio-pathologic differentiation presented by Poornima Narayanan</i>  <b>11:05-11:15 am</b> <i>Neonatal EEG-Based Machine Learning Models for Predicting Long-Term Antiseizure Medication Requirements and Epilepsy Diagnosis presented by Ling kai Tang</i>  <b>11:15 - 11:25 am</b> <i>Clinical Implementation of Genetic Testing for Epilepsy presented by Laila Schenkel</i>  <b>11:25 – 11:35 am</b> <i>The Diagnosis and Management of Adult Status Epilepticus in Resource-limited Settings: A Systematic Review presented by Aayesha Soni</i>
<b>Poster Presentations (Odd)</b>	<b>11:40 - 12:20 pm</b> <ol style="list-style-type: none"> <li>1. Stimulus-modulated approach to steady-state: A new paradigm for event-related fMRI Presented by Ravi Menon</li> <li>3. Genetic Testing Outcomes in the Pediatric Comprehensive Epilepsy Clinic: Our 5-year Experience presented by Tugce Balci</li> <li>5. Correlation of preoperative hippocampal volumetry in patients who underwent stereoelectroencephalography followed by temporal lobectomy, using automated</li> </ol>

	<p>hippocampal unfolding, morphometry, and subfield segmentation presented by Khalid Alorabi</p> <p>7. Cortico-cortical evoked potentials in patients undergoing stereoelectroencephalography at LHSC: feasibility and applicability presented by Alaina Mahalanabis</p> <p>9. Maria Pilar Vicuna (Withdrawn?)</p> <p>11. Investigating Deep Brain Stimulation Parameters for Drug Resistant Epilepsy Treatment: A Literature Review presented by Sam Dabir</p> <p>13. Impact of Neuromodulation Devices on Sleep-Disordered Breathing in Drug-Resistant Epilepsy presented by Mina Ishak</p> <p>15. <i>Self-Reported Autonomic Nervous System Dysfunction Among People with Drug-Resistant Focal Epilepsy</i> presented by Hannah Gray</p> <p>17. The Effect of High-frequency Cortical Stimulation on SEEG-recorded Interictal Epileptiform Discharges by Ahdyie Ahmadi</p> <p>19. BiTemporal Epilepsy Outcomes in Patients investigated with Stereoelectroencephalography presented by Negar Nasrkhani</p> <p>21. Investigating the Role of the Hippocampus in Pattern Separation &amp; Statistical Learning in Temporal Lobe Epilepsy Patients presented by Emily Cordeiro</p> <p>23. Methods for Mapping Cortical Excitability Beyond the Primary Motor Cortex presented by Ravjot Rehsi</p> <p>25. Spiral Trajectory enhances resolution at 7T diffusion MRI presented by Anthony Chu</p>
<b>Lunch</b>	<b>12:20 - 1:20 pm</b>
<b>Research Talks &amp; Discussion</b>	<p><b>1:20 - 2:05 pm</b></p> <p><b>1:20 – 1:30 pm</b> <i>Application accuracy in the era of robotic stereoelectroencephalography: experiences at a Canadian center</i> presented by Amit Persad</p> <p><b>1:30 – 1:40 pm</b> <i>The Relationships Between Clinical and Neuropsychological Outcomes After New Onset Refractory Status Epilepticus</i> presented by Hannah Gray</p> <p><b>1:40 – 1:50 pm</b> <i>Transcriptomic Profiling Reveals Hippocampal White Matter Inflammation as the Potential Epileptogenic Focus in Temporal Lobe Epilepsy</i> presented by Xuan Wang</p>

	<p><b>1:50 – 2:00 pm</b> <i>Modulatory Effects of Central Autonomic Network Stimulation on Heart Rate Responses During Isometric Handgrip Exercise in Epilepsy Patients</i> presented by Grace Vo-Edwards</p>
<b>Poster Presentations (Even)</b>	<p><b>2:05 - 2:45 pm</b></p> <p>2. Ezgi Coskun</p> <p>4. Deep Brain Stimulation for Drug-Resistant Epilepsy: Evaluating Clinical Outcomes, Targeting Accuracy, and Volume of Tissue Activated presented by Sharon Xie</p> <p>6. Socioeconomic Disparities in the Health Outcomes of Women with Epilepsy: A Cross-Sectional Study presented by Ana Victoria Mourao de Meira</p> <p>8. Let's Hear from the Women: A Recount on Epilepsy Professionals' Experiences presented by Mariam Elnazali</p> <p>10. Segmentation of intracranial electrode contacts using convolutional neural networks presented by Arun Thurairajah</p> <p>12. Histological and 15.2T MRI characterization of the zona incerta: advancing visualization for precision deep brain stimulation presented by Violet Liu</p> <p>14. Bio-SENIC: Blood Biomarkers in Status Epilepticus Compared to Non-Seizure Critically-ill Patients - an ESTABLISH Delegated Study presented by John Perez</p> <p>16. Association of Road Traffic Noise with the Risk of New-Onset Epilepsy presented by Tresah Antaya</p> <p>18. Daniella Herrera Chaves</p> <p>20. To parcellate or not to parcellate: Use of cortical parcellations to maximize sensitivity of inter-subject correlation to abnormality presented by Hana Abbas</p> <p>22. Structure-Function Coupling of the Epileptogenic Zone Network for Therapeutic Target Mapping in Pediatric Drug-Resistant Focal Epilepsy presented by Adetunji Oremakinde</p> <p>24. Effects of acute aerobic exercise on neuroelectric indices of cognitive control in epilepsy presented by Meaghan Daub</p> <p>26. Regional and Network Based Structure-Function Coupling in Pediatric Focal Epilepsy and its Relation to Clinical Symptoms presented by Mary Taylor</p>

Coffee Break - Poster Browsing	2:45 - 3:05 pm
Keynote Speaker: Dr. Julio Martinez-Trujillo	3:05 - 3:50 pm
Closure & Awards	3:50 - 4:00 pm