

## The Canada-Israel Collaboration for Brain Studies

Research Presentations - Thursday November 16<sup>th</sup>

9.00am – 5.00pm --- 3<sup>rd</sup> Floor Boardroom, LSRI

9.00	<p><b>Opening Remarks</b>  <b>Alice Aiken -VPR, Dalhousie</b>  <b>Dan Blumberg - VPR, Ben-Gurion University</b>  <b>Victor Rafuse - Director, Brain Repair Centre</b></p>
<p><b>Session 1: Motor and Balance Control</b>  <b>Chair: Dr. Victor Rafuse</b></p>	
9.20	<p><b>Victor Rafuse (Medical Neuroscience, DAL)</b>  <i>Role of Schwann cells in ALS pathology</i></p>
9.40	<p><b>Turgay Akay (Medical Neuroscience, DAL)</b>  <i>Role of muscle spindles in mouse locomotion</i></p>
10.00	<p><b>Lior Shmuelof (BGU)</b>  <i>Formation of long-term motor memories in locomotor adaptation</i></p>
10.20	<p><b>Steven Beyea (BIOTIC, IWK/QE2, DAL)</b>  <i>Driving Brain Health Innovation through Strategic Partnerships between Industry and Healthcare</i></p>
10.40	<p><b>Break</b></p>
11.00	<p><b>Cheryl Kozey (Health Professions, DAL)</b>  <i>Role of Neuromuscular control in Bone and Joint Disorders</i></p>
11.20	<p><b>Shaun Boe (Health Professions, DAL)</b>  <i>With a little help from my friends:  adjuncts to improve learning and recovery</i></p>
11.40	<p><b>Sean Christie (Neurosurgery, DAL)</b>  Addressing questions in Spinal Cord Injury:  Surgery &amp; Basic Science</p>
12.00	<p><b>Itzik Meltzer (BGU)</b>  <i>Properties balance control associated with compensatory rapid leg movements: age-related differences</i></p>
12:20	<p><b>Lunch</b></p>

<b>Session 2: The Diseased Brain</b> <b>Chair: Dr. Ilan Dinstein</b>	
1.00	<b>Tim Bardouille (Physics &amp; Atmospheric Science, DAL)</b> <i>Improving Neurofeedback Systems with Artificial (and Human) Intelligence</i>
1.20	<b>Jeremy Brown (Electrical and Computer Engineering, DAL)</b> <i>Endoscopic Micro-Ultrasound for Neuro-Surgery</i>
1.40	<b>Cynthia Calkin (Psychiatry, DAL)</b> <i>Blood-brain barrier dysfunction as a pharmacodynamics biomarker of neuroprogression in bipolar disorder</i>
2.00	<b>Alon Friedman (Medical Neuroscience, Dalhousie)</b> <i>Collaborative approach in translational studies after brain injury: why and how?</i>

<b>Session 3: Neurodevelopment</b> <b>Chair: Dr. Alon Freidman</b>	
2.40	<b>Gabrielle Rigney (Psychology &amp; Neuroscience, DAL)</b> <i>Leveraging technology to treat pediatric insomnia</i>
3.00	<b>Tara Perrot (Psychology &amp; Neuroscience, DAL)</b> <i>Maternal and paternal influences on offspring stress response development</i>
3.20	<b>Hava Golan (BGU)</b> <i>The in utero environment and prenatal brain injury- rodent models</i>
3.40	<b>Kazue Semba (Medical Neuroscience, Dalhousie)</b> <i>Glia function in sleep</i>
4.00	<b>Ilan Dinstein (BGU)</b> <i>Studying sleep quality, sensory sensitivities, motor control, eye movements, and overnight EEG recordings at the Negev Autism Center</i>
4.20	<b>Isabel Smith (Division of Developmental Pediatrics, DAL/IWK)</b> <i>Longitudinal and Intervention Research in Children with Autism Spectrum Disorder</i>
4.40	<b>Gal Meiri (BGU)</b> <i>Studying risk factors for Autism in a culturally diverse population of the Negev</i>
5.00	<b>Closing Remarks</b>

5.30	<b>Public Reception &amp; Poster Presentations</b> LSRI Atrium
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**Poster Presentations**  
5.30pm, LSRI Atrium

<b>Name</b> (Supervisor)	<b>Title</b>
<b>Uduak MacKenzie</b> (Dr. Ying Zhang)	The effects of PB23 on motor function in an ALS diseased mouse model.
<b>Shannon Hall</b> (Dr. Kazue Semba)	Does sleep loss “wake up” immune cells in the brain?
<b>Ellen Parker</b> (Dr. Alon Friedman)	Mechanisms Underlying Sports-Related Brain Injuries: Early Findings in a Novel Model of Repetitive Mild Traumatic Brain Injury
<b>Julia Harrison</b> (Dr. Vic Rafuse)	Impaired Self-Repair at the Neuromuscular Junction in ALS
<b>Drew DeBay</b> (Dr. Sultan Darvesh)	Butyrylcholinesterase: A diagnostic target for neuroimaging in Alzheimer's disease
<b>Sarah Krautner</b> (Dr. Shaun Boe)	Thinking through to better learning
<b>Lyna Kaminsky</b> (Dr. Alon Friedman)	The role of leaky blood vessels in Bipolar Disorder
<b>Erin Dempsey</b> (Dr. Isabel Smith)	Psychometric Properties of the Merrill-Palmer-Revised Scales of Development in Preschool Children with Autism Spectrum Disorder