McGill Ophthalmology Research Day  
June 9, 2017  

The Research Institute of the MUHC  
1001 boul. Décarie, E wing - Auditorium and Atrium  

Agenda  

8:00 a.m. Registration and Breakfast  

9:00 a.m. Introduction - McGill University, Chair, Department of Ophthalmology  
Leonard Levin MD, PhD, FRCSC  

9:05 a.m. Introduction - McGill Day 2017 Planning Committee Chair  
Reza Farivar-Mohseni, PhD  

**Each presentation will be 10 minutes in length, followed by a 5 minute discussion period.**  

<table>
<thead>
<tr>
<th>Session I</th>
<th>Moderator: Alexandre Reynaud</th>
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| 9:15 a.m. | **Teenage Mutant Neuron Turtles: A Green Approach to Axonal Degeneration**  
Leonard A. Levin, MD, PhD, FRCSC |
| 9:30 a.m. | **Binocular Fusion During Luminance-Based Rivalry Studied with fMRI**  
Philip Cooper (Philip Cooper, Janine D. Mendola) |
| 9:45 a.m. | **The Prototypical Spatial Pattern of the Brain During Movie Viewing**  
Angela Zhang (Angela Zhang, Sébastien Proulx, Yiran Chen, Hassan Akhavein, Reza Farivar) |
| 10:00 a.m. | **HER2 as a Possible Therapeutic Target in Squamous Cell Carcinoma of the Conjunctiva**  
Evangelina Esposito (Evangelina Esposito, Pablo Zoroquiain, Ana Beatriz Toledo Dias, Flavio L. Schneider, Sonia Corredor-Casas, Miguel Burnier) |
| 10:15 a.m. | **Presentation of the Vision Health Research Network**  
Erik Cook, PhD  
Assistant Director of the Brain and Perception Axis  
Réseau de Recherche en Santé de la Vision du FRQS |
| 10:30 a.m. | **Coffee break (Atrium)** |

FOOD AND DRINKS ARE NOT ALLOWED IN THE AUDITORIUM.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session II</th>
<th>Moderators: Shasha Lv, Patrick Logan</th>
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<tr>
<td>11:00 a.m.</td>
<td><strong>Filtering Techniques Significantly Impact Time-domain Measurements of the</strong></td>
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<td><strong>ERG Oscillatory Potentials</strong></td>
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<td><em>Mercedes Gauthier (Mercedes Gauthier, Mathieu Gauvin, Jean-Marc Lina, Pierre</em></td>
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<td><em>Lachapelle)</em></td>
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<td>11:15 a.m.</td>
<td><strong>Could the Flicker ERG Play a Role in the Diagnosis of Retinal Disorders?</strong></td>
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<td><em>Uzair Khan (Uzair Khan, Allison Dorfman, Pierre Lachapelle)</em></td>
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<td>11:30 a.m.</td>
<td><strong>Retrobulbar Anesthesia for Adjustable Strabismus Surgery in Adults</strong></td>
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<td><em>Milad Modabber (Milad Modabber, Razek Coussa, Andrei Dan, Michael Flanders)</em></td>
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<td>11:45 a.m.</td>
<td><strong>Clinicopathological Features of Basal Cell Carcinoma of the Eyelid with</strong></td>
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<td><strong>Sebaceous Differentiation</strong></td>
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<td><em>Taylor Nayman (Taylor Nayman, Pablo Zoroquiain, Evangelina Esposito, Sabrina</em></td>
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<td><em>Bergeron, Carlos A. Moreira Neto, Sultan Aldrees, Miguel Burnier)</em></td>
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<td>12:00 p.m.</td>
<td><strong>An Intelligent Self-adapting Glaucoma Valve - Part 2</strong></td>
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<td><em>Alexandre Plouznikoff (Alexandre Plouznikoff, Hady Saheb)</em></td>
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<td>12:15 p.m.</td>
<td><strong>Can We Squeeze More Out of the fMRI Signal?</strong></td>
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<td><em>Sébastien Proulx (Sébastien Proulx, Reza Farivar)</em></td>
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<td>12:30 -1:15 p.m.</td>
<td><strong>1st Poster viewing (Atrium)</strong></td>
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<td>1:15 – 1:45 p.m.</td>
<td><strong>Lunch (Atrium)</strong></td>
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<td>1:45 –2:30 p.m.</td>
<td><strong>ROUND TABLE</strong></td>
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<td><strong>Empowering Research with World-Class Resources</strong></td>
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<td><strong>Dawn Bell, PharmD</strong></td>
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<td>Chief Scientific Officer and Vice-President, Scientific Affairs</td>
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<td><strong>Danika Laberge, PMP</strong></td>
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<td>Associate Director, McConnell Centre for Innovative Medicine (CIM)</td>
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<td><strong>Reza Farivar, PhD</strong></td>
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<td>Assistant Professor, McGill Department of Ophthalmology</td>
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<td><strong>Hady Saheb, MD, MPH</strong></td>
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<td>Assistant Professor, McGill Department of Ophthalmology</td>
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**FOOD AND DRINKS ARE NOT ALLOWED IN THE AUDITORIUM.**
2:30 – 3:00 p.m.  Questions and discussion

Session IV  Moderator: Gunnar Schmidtmann

3:00 p.m.  Ocular Lesions in the Pediatric Population: A 10-year Retrospective, Topographic Histopathological Study
Aaron Rosen (Aaron Rosen, Rafael Pereira, Rafael Peres, Patric Logan, Jacqueline Coblentz, Miguel Burnier)

3:15 p.m.  Visual Contour Discrimination Task Reveals Elevated Internal noise in Mild Traumatic Brain Injury Patients
Tatiana Ruiz (Tatiana Ruiz, Daniel Spiegel, Alex Baldwin, Robert Hess, Reza Farivar)

3:30 p.m.  Nonlinearity of Contrast Responses in Human Achromatic and Red-Green Color Vision
Yushu Wang (Yushu Wang, Alex Baldwin, Robert Hess, Kathy Mullen)

3:45 p.m.  Multi-angular ERG: Retinal Topography Mapping of Various Flash Intensities
Pearson Wu (Pearson Wu, Antoine Brassard-Simard, Mathieu Gauvin, Allison Dorfman, Pierre Lachapelle)

4:00 p.m.  Monte Carlo Simulation of Propagation of Axonal Loss within the Optic Nerve in Leber Hereditary Optic Neuropathy
Razek Coussa (Razek Georges Coussa, Pooya Merat, Leonard A. Levin)

4:15 – 4:45 p.m.  2nd poster viewing (Atrium)

4:45 p.m.  Discussion period. (Judges to compile results.)

5:15 p.m.  Closing Remarks, Awarding of prizes, Adjourn
Poster Session I
12:30 – 1:15 p.m. in the Atrium

Residents, Fellows, Medical Students

1. Do Eyes with Esotropia Have a High Prevalence of Narrow Angles
   Ahmad Alali (Ahmad Alali, Rosanne Superstein, Oscar Kasner)

2. Quantitative Assessment of the Full-field and Multifocal Electroretinogram in Detecting Hydroxychloroquine Associated Retinal Toxicity in Children

3. Randomized Clinical Trial of Outpatient Sedation Using Chloral Hydrate Versus Intranasal Midazolam for Pediatric Ophthalmology Exams and Minor Procedures

4. Novel Use of Anterior Segment Optical Coherence Tomography
   Hoi Tai (Henry) Fung (Hoi Tai Fung, Shawn Cohen, Hady Saheb)

5. The Histopathological Correlation of Chalazions and Optical Coherence Tomography
   Georges Nassrallah (Georges Nassrallah, Sabrina Bergeron, Denise Miyamoto, Pablo Zoroquiain, Miguel Burnier, Bryan Arthurs)

6. Evaluation of Effective Teaching Methods for the Proper Administration of Eye Drops Following Cataract Surgery in Drop-naïve Patients
   Jeb Ong (Jeb Ong, Oscar Kasner)

7. Besifloxacin Ophthalmic Suspension in Patients with Bacterial Keratitis: A Prospective, Randomized Clinical Study
   Michael Ross (Michael Ross, Jean Deschênes)

8. The Histopathological Correlation of Basal Cell Carcinoma and Optical Coherence Tomography
   Debra-Meghan Sanft (Debra-Meghan Sanft, Denise Miyamoto, Sabrina Bergeron, Pablo Zoroquiain, Evangelina Esposito, Bryan Arthurs, Christina Mastromonaco, Andre Romano, Miguel Burnier)

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POSTER SESSION II
4:15 – 4:45 p.m. in the Atrium

Residents

9. Does Treatment of Normal Pressure Hydrocephalus (NPH) with Ventriculo-Peritoneal (VP) Shunt Cause Lamina Cribrosa (LC) Morphology Change?
   Nabeel Shalabi (Nabeel Shalabi, Rakan Bukhari, Ali Hafez, Hady Saheb)

10. Electronic Tracking of Surgical Teaching: Implications in Resident Cataract Education
    Fatma Zaguia (Fatma Zaguia, Mahshad Darvish)

11. Predictive Role of Disorganization of Retinal Inner Layers and Ellipsoid Zone Disruption for Visual Acuity Outcomes in Central Retinal Vein Occlusion Macular Edema
    Vincent Sun (Errol Chan, Mohab Eldeeb, Vincent Sun, Doneal Thomas, Amer Omar, Michael Kapusta, John Chen)

Research from labs

12. Investigating the System that the Brain Uses to Join-up Contours: How “Noisy” is it?
    Alex Baldwin (Alex Baldwin, Minnie Fu, Reza Farivar, Robert Hess)

13. Prototypical Spectral Profile of the Cortex During Naturalistic Visual Stimulation
    Yiran Chen (Yiran Chen, Sylvain Baillet, Reza Farivar)

14. Cellular Response in the Retina of Juvenile Rats Following Bright Light Exposure
    Shasha Lv (Shasha Lv, Anna Polosa, Pierre Lachapelle)

15. Texture Density Adaptation is Bidirectional
    Hua-Chun Sun (Hua-Chun Sun, Frederick AA Kingdom, Curtis Baker)

16. Does Warming Up Influence Performance and Surgical Outcome in Epiretinal Membrane Peeling?
    Andrei Dan (Rayan Alshareef, Zoya Chaudhry, Andrei Dan, Michael Kapusta)

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