Program Learning Objectives

At the end of the program, participants will be able to:

▪ Describe the methodology of the research.

▪ Analyse a scientific publication in relation to vision research.

▪ Discuss the recent data of fundamental and clinical research in their environment.

▪ Interpret the results of recent research work done in diseases of the eye in such subspecialties as glaucoma, retina, cornea, neuro-ophthalmology, uveitis, pediatric ophthalmology, and vision science.

▪ Discuss the impact these recent developments could have on their practice.

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Friday, October 23, 2020

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

9:05 a.m.  Introduction - McGill Day 2020 Planning Committee Chair  
Reza Farivar, PhD

**Each presentation will be 12 minutes in length, followed by a 3-minute discussion period.**

9:15 a.m.  Session I. Moderator: Reza Abbas Farishta

1. Human stereoacuity performance: significant proportion of stereoanomalous individuals revealed by task requiring discrimination of disparity direction (Alex S Baldwin, Seung Hyun Min, Sara Alarcon Carrillo, Ziyun Cheng, Zili Wang, Jiawei Zhou, Robert F. Hess)

2. Efficacy of gonioscopy-assisted transluminal trabeculotomy is related to the extent of persistent trabecular shelf identified via swept-source anterior segment optical coherence tomography (Harrish Nithianandan)

3. Primate monocular vision is intrinsically unstable: a side-effect of binocular homeostasis (Alexandre Reynaud, Kevin Blaize, Fabrice Arcizer, Pierre Pouger, Serge Picaud, Frédéric Chavane, Robert F. Hess)

4. Brain States as Neural Oscillation and Neural Firing Dynamics in the Visual Cortex (Chang’an Zhan, Curtis L. Baker)

5. Primary Care Assessment of Orbital Trauma at a Level 1 Trauma Center (Judy Gaffar, Georges Nassrallah, Matthew Kondoff, Michael Ross, Jean Deschenes)

10:30 a.m.  Break

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11:00 a.m.  
**Session II. Moderator: Christopher Shooner**

6. Axonal Degeneration Induces Distinct Patterns of Phosphatidylinerine and Phosphatidylethanolamine Externalization *Hannah Faris, Mohammadali Almasieh, Leonard Levin*  


8. One-Year Outcomes of Gonioscopy-Assisted Transluminal Trabeculotomy (GATT) in Younger to Middle-Aged Adults *Ali Salimi, Harris Nithianandan, Huda Al Farsi, Paul Harasymowycz, Hady Saheb*  

9. The Incidence of Traumatic Retinal Pathology in Over 250 eyes with Orbital Trauma: A Retrospective Chart Review *Mark Bamberger, Rachel A Smith, Georges Nassrallah, Judy Gaffar, Matthew Kondoff, Michael Ross, Jean Deschenes*  

10. Quantifying and Mapping Stereopsis in Regions Around the Central Visual Field Through Use of Eye-Tracking Virtual Reality Technologies *Tenia Wang, Alex Baldwin, Robert F. Hess*

12:15 -1:00 p.m.  
**Lunch**

1:00 p.m.  
**Session III. Moderator: Sebastien Proulx**

11. Visualization of Axonal Degeneration as a Progressive Axon-Associated Molecular Process *Fan Yang, Mohammadali Almasieh, Leonard A. Levin*  

12. Study of the Concentration-Dependent Structural Effects of Pilocarpine on the Anterior Segment of the Eye in Patients Scheduled to Undergo Laser Procedures *Daniel Peretz, Hady Saheb*  

14. Retinal artery and vein displacements in patients with retinal degenerative disorders (Anne Xuan-Lan Nguyen, Pierre Lachapelle)

15. The Flash-lag Effect in Amblyopia (Xi Wang)

2:15 – 3:30p.m.  Poster Session *(see attached Appendix)*

3:30 p.m.  Closing Session / Voting

4:00 p.m.  Closing Remarks, Adjourn
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<thead>
<tr>
<th>Poster #</th>
<th>Title</th>
<th>Authors</th>
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<td>1</td>
<td>Human visual perception of contrast modulated patterns in peripheral vision</td>
<td>Ana Ramirez Hernandez, Curtis L. Baker, Ari Rosenberg</td>
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<td>2</td>
<td>Outreach screening to address socioeconomic barriers to diabetic retinopathy care in rural China</td>
<td>Gareth Mercer</td>
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<tr>
<td>3</td>
<td>Efficacy and Safety of Aflibercept Therapy for Diabetic Macular Edema: A Systematic Review and Meta-Analysis</td>
<td>Sangeetha Santhakumaran</td>
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<td>4</td>
<td>Construct the complex type of distortion through the amblyopia perception</td>
<td>Haneieh Molaei, Reza Farivar</td>
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<td>5</td>
<td>Voxel-wise Contrast Sensitivity Function Modeling with fMRI</td>
<td>Laurie Goulet, Reza Farivar</td>
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<td>6</td>
<td>Depth-cue invariant object recognition</td>
<td>Luiza Volpi, Reza Farivar</td>
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<td>7</td>
<td>Reducing optic neuropathy side effects of ethambutol through computational modeling</td>
<td>Raheem Remtulla, Leonard Levin</td>
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<td>8</td>
<td>Evaluation of the flow of patients through an emergency ophthalmology consult service in a tertiary care academic center in Monday, Canada – 90 day review</td>
<td>Zoya Chaudhry, Zainab Khan</td>
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<td>9</td>
<td>Retinal artery and vein angular and linear displacements in a case of unilateral <em>Retinitis Pigmentosa</em>: a 30-year follow-up.</td>
<td>Anne Xuan-Lan Nguyen, Clara Tardif, Pierre Lachapelle</td>
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Accreditation Statement

The 43rd Annual McGill Ophthalmology Research Day is an Accredited Group Learning Activity (Section 1), as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada and was approved by the Canadian Ophthalmological Society. Physicians may claim a maximum of 3.75 hours.

Physicians should only claim credit commensurate with the extent of their participation in the learning activity.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.