

**McGill Ophthalmology Research Day
AGENDA**

**June 12, 2023
RI Atrium Elspeth McConnell
McGill University**

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.

Accreditation Statement

The 46th Annual McGill Department of Ophthalmology and Visual Sciences Department 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 4.15 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.

Monday, June 12, 2023

9:00 a.m. **Welcome Remarks**
Dr. Leonard Levin MD, PhD, FRCSC
McGill University, Chair, Department of Ophthalmology and Visual Sciences

9:05 a.m. **Welcome Remarks**
Alexander Baldwin, PhD
Chair, McGill Ophthalmology Research Day

9:15 a.m. **Trainee Session I. Flash Talks - Moderator: Siddharth Nath**
(flash talks are 3 mins and followed by a poster session in lieu of Q&A)

1. Jeong Ung Song: Contrast detection in pink and white spatial noise in normal vision and in visual snow syndrome (*Song, J; Baldwin, A S*)
2. Peter Tai: Tick infestation of the eyelid in a pediatric patient (*Tai, P; Chan; S*)
3. Joseph Kam: Evaluation of operating under a 3D binocular microscope on stereopsis (*Kam, J; Reynaud, A*)
4. Rinku Sarkar: Exploring the surround suppression mechanisms in amblyopia – A psychophysical study (*Sarkar, R; Kingdom, F A A; Reynaud, A*)
5. Evangelina Esposito: Sonic Hedgehog signaling in Retinoblastoma Cell Lines and its blockage with Vismodegib (*Esposito, E; Zoroquiain, P; Orellana, M E; Burnier, J V; Burnier, M N*)
6. Ana Ramirez: Impaired perception of isoluminant red-green contrast modulation stimuli: Evidence for a magnocellular pathway mechanism (*Ramirez, A L; Baker, C L*)
7. Sujeevini Sujanthan: Testing the effect of luminance masking on visual function with fMRI studies (*Sujanthan, S; Farahani, A B; Shmuel, A; Mendola, J D*)
8. Eric Mokri: Increasing Interocular Grouping Demands during Binocular Rivalry with MEG (*Mokri, E; Silva Castanheira, J; Landry, M; Mendola, J D*)
9. Ali Salimi: Large Language Models in Ophthalmology Scientific Writing: Ethical Considerations. Blurred Lines or Not at All? (*Salimi, A; Saheb, H*)

10. Maya Alik: Descriptive Analysis of Canadian Ophthalmology Fellowship Program Directors (*Alik, M; Bakshi, N; Saheb, H*)
11. Austin Cooper: Comparing Movie-Driven versus Resting State Fine-Scale Visual Cortex Connectivity (*Cooper, A; Dawson, D; Shmuel, A; Mendola, J D*)
12. Emily Marcotte: Discovering the pathogenesis of cancer dissemination: The role of dual nature – hybrid cells in Uveal Melanoma (*Marcotte, E; López-Sotomayor, M D; Goyeneche, A; Abdouh, M; Youhnovska, E; Bergeron, S; Toledo Dias, A B; Burnier, M N*)
13. Tony Shicheng Jin: Comparing Interventions for Chronic Central Serous Chorioretinopathy: A Network Meta-analysis (*Jin, T S; Linh You, E L; Hébert, M; Bourgault, S; Caissie, M; Tourville, É; Ordóñez-Mena, J; Dirani, A; Chen, J*)
14. Xingqi Raffles Zhu: Spatial scrambling of the visual percept in amblyopia: a new method to investigate the fidelity of low-level feature representation (*Zhu, X R; Hess, R F; Baldwin, A S*)

10:15 a.m. **Poster Session 1 -14 in Atrium** (with refreshments)

10:45 a.m. **Keynote: Revascularizing the Ischemic Retina: From Idea to Clinical Trials** (Dr. Mike Sapieha, introduced by Tony Jin)

11:45 a.m. **Trainee Session II. Featured Talks - Moderator: Ana Ramirez**
(*featured talks are 12 minutes each followed by 3 minutes Q&A*)

- A. Daniel Gurman: Investigating the temporal dynamics of dichoptic masking (*Gurman, D; Reynaud, A*)
- B. Darius Lambiri: Modeling Reactive Oxygen Species-Induced Axonal Loss in Leber Hereditary Optic Neuropathy (*Lambiri, D; Levin, L*)
- C. Abed Baiad: A meta-analysis of neurodevelopmental outcomes following intravitreal bevacizumab for the treatment of retinopathy of prematurity (*Baiad, A., Kherani, I., Popovic, M., Katsnelson, G., Muni, R., Mireskandari, K., Tehrani, N., Zhou, T., Kertes, J.*)

- D. Alicia Goyeneche: Delineating three-dimensional behavior of uveal melanoma cells under anchorage independent or dependent methods (*Goyeneche, A A; Lasiste, J M; Bustamante, P; Abdouh, M; Burnier, V.J; Nguyen, X-L; Burnier, MN Jr.*)

12:45 p.m.

Lunch in Atrium

1:30 p.m.

Trainee Session III. Featured Talks - Moderator: Ayman Aljohani
(*featured talks are 12 minutes each followed by 3 minutes Q&A*)

- E. Amrit Das: Simulation of Non-Arteritic ischemic Neuropathy using COMSOL Multiphysics Software (*Das, A; Khan, M; Levin, L*)
- F. Nicole Dranitsaris: Development of new dichoptic reading technology for amblyopia therapy (*Dranitsaris, N A; Chong, K; Hess, R F; Reynaud, A*)
- G. Sheetal Pundir: Endothelial Cell Metabolism Determines Healthy or Diseased Revascularization of the Ischemic Retina (*Pundir, S; Cagnone, G; Kim, J S; Joyal, J S*)
- H. Siddharth Nath: Efficacy of intracorneal ring segments for treatment of residual astigmatism following penetrating keratoplasty: a systematic review and meta-analysis (*Nath, S; Koziarz, A; Darvish-Zargar, M; Talajic, J; Choremis, J*)

2:30 p.m.

Trainee Session IV. Flash Talks - Moderator: Tony Jin
(*flash talks are 3 mins and followed by a poster session in lieu of Q&A*)

15. Harrison Watt: Retinal Vein Occlusion in Patients with Primary Angle-Closure: A Prospective Case- Control Study (*Salimi, A; Li, C; Watt, H; Hasan, J; Galic, J; Chen, J; Saheb, H*)
16. Sheetal Pundir: Impact of vision impairment on children's quality of life and mental health (*Pundir, S; Li, D; Congdon, N*)
17. Sheetal Pundir: Concentration-Dependent Structural Effects of Pilocarpine on the Anterior Segment of the Eye (*Pundir, S; Peretz, D; Rahman, S; Wakil, S; Saheb, H*)

18. Maya Alik: Comparison of surgical outcomes of gonioscopy-assisted transluminal trabeculotomy, Ahmed Glaucoma valve implantation and Baerveldt Glaucoma Implant in Uveitic Glaucoma (*Alik, M; Salimi, A; Saheb, H*)
19. Jinani Sooriyaarachchi: Cortical State Effects Vary Across Different Neuronal Subclasses in the Primary Visual Cortex (*Sooriyaarachchi, J; Zhan; Baker, C L*)
20. Jacqueline Coblentz: Relationship between the Covid-19 pandemic and the incidence of chalazion excision (*Coblentz, J; Arruda, M; Nogueira, H; Mansure, J; Ozdemir, K; Fajardo, A; Burnier, M N*)
21. Emmanuel Nassrallah: Drusen Quantification in Post-Mortem Eyes Implanted with or without Blue-Light Filtering Intraocular Lenses (*Nassrallah, E; Youhnovska, E; Abdouh, M; Marcotte, E; Mastromonaco, C; Burnier, M N*)
22. Ziad Lamlili: Trajectory Estimation in Amblyopia (*Lamlili, Z; Nadori, E M; Reynaud, A*)
23. Emma Youhnovska: Clinicopathological diagnosis of primary ocular amyloidosis (*Youhnovska, E; López, S; Dulce, M; Marcotte, E; Bergeron, S; Goyeneche, A; Burnier, M N*)
24. Annabel Wing-Yan Fan: The Timeless Challenge of Noise: Understanding the Impact of Temporal Noise on Contrast Detection (*Fan, Wing-Yan A, Baldwin, A S*)
25. Laura Parodi: Assessment of How Visual Field Defects Affect Reading Using a Virtual Reader (*Parodi, L; Levin, L*)
26. Abed Baiad: Comparison of intravitreal bevacizumab, ranibizumab and aflibercept for retinopathy of prematurity: a meta-analysis (*Baiad, A., Yin, G., Popovic, M., Muni, R., Mireskandari, K., & Kertes, J.*)
27. Abed Baiad: A meta-analysis of intravitreal ranibizumab versus laser therapy for the treatment of retinopathy of prematurity (*Baiad, A., Yin, G., Popovic, M., Muni, R., Mireskandari, K., & Kertes, J.*)

- 3:30 p.m. **Poster Session 15 – 27 in Atrium** (with refreshments)
- 4:00 p.m. **Closing Remarks** (Deadline for voting best-flash-talk/poster)
- 4:10 p.m. **Mocktail Reception in Atrium**
- 4:30 p.m. **Announcement of Prizes in Atrium**