UBC Department of Ophthalmology and Visual Sciences
34th Annual Research Day
VGH/UBC Eye Care Centre

Friday April 20, 2018

UBC Ophthalmology and Visual Sciences Speakers
“Clinically Relevant Basic Science and Clinical Research”

Special Guest Speaker
Mark Pennesi, M.D., Ph.D.
Division Chief, Ophthalmic Genetics
Associate Professor of Ophthalmology, Oregon Health and Science University
“What’s New in Retinal Gene Therapy?”

This event 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. This program has been reviewed and approved by UBC Division of Continuing Professional Development.

Video conferencing will be available.

This program lists the proposed presenters and discussants at the time of printing and is subject to change.

Accredited by:

The Division of Continuing Professional Development
Faculty of Medicine
Program

8:00 am  Opening Remarks – video conferencing starts  ……………………………………………………D. Maberley

Session 1 – Retina 1
Moderator: O. Moritz

8:05  Optical coherence tomography segmentation of conjunctival lymphatics with use of indocyanine green…………………………………………………………………………………………………G. Docherty
8:14  Multi-acquisition averaging OCT-A for diabetic retinopathy ………………………………………H. Akil
8:23  Visual and anatomic outcomes after vitrectomy with internal limiting membrane peeling for diabetic macular edema……………………………………………………………………………E. Sedbazar
8:32  Canadian practice patterns for idiopathic epiretinal membranes……………………………………M. Butler
8:41  Improving surgical technique for delivery of retinal precursor cells to subretinal space ……M. Wahid
8:50  Discussion……………………………………………………………………………………………………S. Levasseur and A. Merkur

9:05  Introduction of Dr. Pennesi………………………………………………………………………………K. Gregory-Evans
9:10  GUEST SPEAKER – What's new in retinal gene therapy?…………………………………………M. Pennesi
9:55  Discussion……………………………………………………………………………………………………TBA

10:10  Coffee Break

Session 2 – Perception and Neuroophthalmology
Moderator: S. Warner

10:35  Is spatial frequency processing a source for enhanced cortical functioning in people with autism spectrum disorder?………………………………………………………………………………………………T. Kamensek
10:44  Effect of visual exposure to other-race faces on face recognition efficiency…………………M. Mousavi
10:53  Visual contrast sensitivity in early-stage Parkinson's disease……………………………………W. Ming
11:02  Fixation stability and motion perception deficits in amblyopia……………………………………K. Meier
11:20  Discussion……………………………………………………………………………………………………B. Sexton and J. Chuo

11:35  Lunch – Medical Student & Alumni Centre, 2750 Heather Street
Session 3 – Epidemiology
Moderator: C. Wendel

12:45 Urrets-Zavalia syndrome as a complication of neodymium-YAG laser posterior capsulotomy: A Case Series..................................................L Robinson
12:54 Assessment of the impact of educational materials on patient satisfaction in an emergency ophthalmology clinic.................................................................G. Law
1:03 A resurgence of ocular syphilis in British Columbia: 2013-2017 A retrospective chart review............................M. Eslami
1:12 Epidemiological survey of fungal and/or MRSA keratitis .....................................................G. Qiao
1:21 Prospective analysis of emergency ophthalmic referrals in a Canadian tertiary teaching hospital.................................M. Yang
1:30 Discussion..............................................................R. Talbot and H. O’Donnell

Session 4 – Methodology
Moderator: I. Oruc

1:45 Modeling environmentally-induced motor neuron degeneration in zebrafish.........................J. Morrice
1:54 Ex-vivo imaging of posterior human corneal layers after Big Bubble DALK procedure with Ultrahigh Resolution OCT (UHR-OCT) ...........................................M. Alobthani
2:03 Eye movements as sensitive markers of small-vessel disease: a pilot study.....................M-C. Liu
2:12 Role of prostaglandin use in recurrent HSV keratitis.........................................................K. Clapson
2:21 Association of post-operative topical prostaglandin analog and/or beta-blocker use and incidence of pseudophakic cystoid macular edema ..........................................C. Wendel
2:30 Discussion..............................................................A. Giligson and N. Nathoo

Session 5 – Retina 2
Moderator: K. Gregory-Evans

2:45 Dexamethasone implant for the treatment of persistent diabetic macular edema in eyes not responsive to long-term treatment with bevacizumab........................................A. Joe
2:54 Surgical success and functional outcomes of failed pneumatic retinopexy for primary rhegmatogenous retinal detachment......................................................R. Martens
3:03 The effect of optical quality of posterior intraocular lens implants on vitrectomy...........T. Fang
3:12 Modeling cone-rod dystrophy in genetically modified African clawed frog: insights into photoreceptor disc membrane synthesis.............................................B. Carr
3:21 Interplay between inflammation and cell death pathways in geographic atrophy of AMD...R. Chen
3:30 Discussion..............................................................D. Bhui and D. Hammoudi
3:45 Closing Remarks – video conferencing ends.................................................................O. Moritz
3:55 Judging
4:00 Reception & Announcement of Awards
Program Objectives

The program brings together UBC Ophthalmology experts in comprehensive ophthalmology, paediatrics, neuroscience, glaucoma, oculoplastics, and retina. Clinically relevant research will be emphasized in this update of the latest research in these areas. Topics to be covered include:

RETINA:
- Review the use of OCT angiography in its role in diabetic retinopathy
- Describe a novel delivery system for retinal precursor cells
- Review the outcomes following vitrectomy for diabetic macular edema
- Discuss practice patterns in regards to treatment of epiretinal membranes
- Examine the use of a dexamethasone implant for treatment of persistent diabetic macular edema
- Assess surgical success of failed pneumatic retinopexy for retinal detachment
- Examine the interplay between inflammation and cell death in geographic atrophy
- Discuss modeling cone-rod dystrophy in a genetically modified African clawed frog
- Categorize the relationship between intraoperative retinal view and type of intraocular lens implant
- Examine the relationship between topical glaucoma agents and pseudophakic cystoid macular edema

CORNEA & ANTERIOR SEGMENT:
- Discuss imaging of the posterior corneal layers following Big Bubble DALK
- Better understand the anatomy of the conjunctival lymphatic vessels using OCT
- Explore the clinical outcomes of infectious keratitis cases in Canada
- Assess the role of prostaglandin use in recurrent HSV keratitis

VISUAL PROCESSING:
- Discuss enhanced low-level visual processing as a source of enhanced visual function in ASD
- Better understand the exposure to other-race faces on facial recognition efficacy
- Evaluate the relationship between eye movement stability and motion perception deficits in amblyopia
- Explore how eye movements may be indicators of small vessel disease
- Discuss how dual-task pursuit with a working memory task improves performance in TBI

EPIDEMIOLOGY & NEW MODELS:
- Assess impact of educational materials on patient satisfaction in the emergency ophthalmology clinic
- Address ocular syphilis in British Columbia as a resurgent cause of ocular disease and sequelae
- Examine the relationship between ER ophthalmic examination and referral examination
- Discuss the use motor neuron degeneration in zebrafish as a model for ALS research

Twenty-five percent of the time will be devoted to discussions of the clinical relevance of the presentations led by designated authorities, allowing the audience to decide how this research could impact their practice. By merging basic science and clinical research, the program will be of interest to ophthalmologists, ophthalmologists-in-training, basic scientists and allied health professionals.

Course Planning Committee

Orson Moritz, PhD - Associate Professor
Simon Warner, MD, FRCSC - Clinical Professor
Ipek Oruc, PhD – Assistant Professor
C. Wendel, MD – Resident
Kevin Gregory-Evans, MD –Professor

Judges

TBA

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