

MODULE 1 – EYE DEVELOPMENT/EYE OPTICS/CORNEA/REFRACTIVE ERROR/MYOPIA CONTROL**January 4, 2021 – Monday**

9:00 AM

Introduction BSCO (1 hour)Andrei V. Tkatchenko, MD, PhD – *Columbia University, New York, USA*Ronald H. Silverman, PhD – *Columbia University, New York, USA***Molecular Regulation of Eye Development (1 hour)**Xin Zhang, PhD – *Columbia University, New York, USA***Development of retinal ganglion cells and their connections with the brain: replacement and reconnection after injury (1 hour)**Carol Mason, PhD – *Columbia University, New York, USA***Orbital Anatomy**Daniel Casper, MD – *Columbia University, New York, USA***Surgical Anatomy of the Globe**Hermann Schubert, MD – *Columbia University, New York, USA***January 5, 2021 – Tuesday**

9:00 AM

Eye Development and Anatomy – Q&A and Discussion (0.5 hours) live sessionXin Zhang, PhD – *Columbia University, New York, USA*Carol Mason, PhD – *Columbia University, New York, USA*Daniel Casper, MD – *Columbia University, New York, USA*Hermann Schubert, MD – *Columbia University, New York, USA***Ophthalmic Optics (7 hours)**David Guyton, MD – *Johns Hopkins University, Baltimore, USA*Kristina Irsch, PhD – *Institut de la Vision, Paris, France***January 6, 2021 – Wednesday**

9:00 AM

Ophthalmic Optics – Q&A and Discussion (0.5 hours) live sessionDavid Guyton, MD – *Johns Hopkins University, Baltimore, USA*Kristina Irsch, PhD – *Institut de la Vision, Paris, France***Accommodation and Presbyopia (1 hour)**Donald J. Coleman, MD – *Columbia University, New York, USA***Basic Science of Refractive Eye Development and Myopia (1 hour)**Andrei V. Tkatchenko, MD, PhD – *Columbia University, New York, USA***Role of Peripheral Vision in Ocular Growth and Refractive Eye Development (1 hour)**Earl Smith, OD, PhD – *University of Houston, Houston, USA***Circadian Rhythms and Refractive Eye Development (1 hour)**Debora Nickla, PhD – *New England College of Optometry, Boston, USA***Role of contrast perception and longitudinal chromatic aberrations in optical defocus perception (1 hour)**Timothy Gawne, PhD – *University of Alabama in Birmingham, Birmingham, USA***Genetics of Myopia (1 hour)**Chris Hammond, MD, MRCP, FRCOphth – *King's College London, London, UK***January 7, 2021 – Thursday**

9:00 AM

Accommodation and Refractive Development – Q&A and Discussion (0.5 hours) live sessionDonald J. Coleman, MD – *Columbia University, New York, USA*Andrei V. Tkatchenko, MD, PhD – *Columbia University, New York, USA*Earl Smith, OD, PhD – *University of Houston, Houston, USA*Debora Nickla, PhD – *New England College of Optometry, Boston, USA*Timothy Gawne, PhD – *University of Alabama in Birmingham, Birmingham, USA*Chris Hammond, MD, MRCP, FRCOphth – *King's College London, London, UK***Contact Lenses (1 hour)**Suzanne Sherman, OD – *Columbia University, New York, USA*

Myopia Control (1 hour)

Jeffrey Cooper, MS, OD, FAAO – *Cooper Eye Care, New York, USA*
Shira Kresch, MS, OD, FAAO – *Columbia University, New York, USA*

Origins of Clinical Refractive Technology (1 hour)

Stephen Trokel, MD – *Columbia University, New York, USA*

Refractive Surgery: Overview and Complications (1 hour)

Christopher E. Starr, MD – *Weill Cornell Medicine, New York, USA*

Refractive Surgery: Worldwide perspective (2 hours)

Dan Z. Reinstein, MD – *London Vision Clinic, London, UK*

January 8, 2021 – Friday**9:00 AM****Myopia Control and Refractive Surgery – Q&A and Discussion (0.5 hours) *live session***

Suzanne Sherman, OD – *Columbia University, New York, USA*
Jeffrey Cooper, MS, OD, FAAO – *Cooper Eye Care, New York, USA*
Shira Kresch, MS, OD, FAAO – *Columbia University, New York, USA*
Stephen Trokel, MD – *Columbia University, New York, USA*
Christopher E. Starr, MD – *Weill Cornell Medicine, New York, USA*
Dan Z. Reinstein, MD – *London Vision Clinic, London, UK*

REFRACTION WORKSHOP (8 hours)**Retinoscopy: Lecture**

Mark E. Wilkinson, OD, FAAO – *University of Iowa, Iowa City, USA*

Retinoscopy: Workshop

Shira Kresch, MS, OD, FAAO – *Columbia University, New York, USA*

Suzanne Sherman, OD – *Columbia University, New York, USA*

Sonali Talsania, MD – *Columbia University, New York, USA*

Fiza Shuja, OD – *Columbia University, New York, USA*

Refraction: Lecture

Mark E. Wilkinson, OD, FAAO – *University of Iowa, Iowa City, USA*

Refraction: Workshop

Shira Kresch, MS, OD, FAAO – *Columbia University, New York, USA*

Suzanne Sherman, OD – *Columbia University, New York, USA*

Sonali Talsania, MD – *Columbia University, New York, USA*

Fiza Shuja, OD – *Columbia University, New York, USA*

Mark E. Wilkinson, OD, FAAO – *University of Iowa, Iowa City, USA*

January 11, 2021 – Monday**9:00 AM****Basic Cornea and External Eye Diseases (1 hour)**

LeeJee H. Suh, MD – *Columbia University, New York, USA*

Anterior Segment Imaging (1 hour)

LeeJee H. Suh, MD – *Columbia University, New York, USA*

Corneal Infections and Keratoprosthesis (1 hour)

Danielle Trief, MD – *Columbia University, New York, USA*

Corneal Dystrophies and Corneal Transplantation (2 hours)

George Florakis, MD – *Columbia University, New York, USA*

Antibiotics, Antifungals, Antivirals: Pharmacokinetics and Pharmacodynamics (1 hour)

Michael J. Weiss, MD – *Columbia University, New York, USA*

MODULE 2 – CATARACT AND GLAUCOMA**January 12, 2021 – Tuesday****9:00 AM****Cornea, Corneal Infections and Transplantation – Q&A and Discussion (0.5 hours) *live session***

LeeJee H. Suh, MD – *Columbia University, New York, USA*

Danielle Trief, MD – *Columbia University, New York, USA*

George Florakis, MD – *Columbia University, New York, USA*

Michael J. Weiss, MD – *Columbia University, New York, USA*

Pre-op Evaluation and Consent

George Cioffi, MD – *Columbia University, New York, USA*

Refractive considerations in cataract surgery: basic optics, biometry, IOL calculations, and IOL choices including torics and multifocals (1 hour)

Paul Krawitz, MD – *Columbia University, New York, USA*

Phacodynamics

James Auran, MD – *Columbia University, New York, USA*

Anesthesia: blocks, topical, intracameral

Dana Blumberg, MD, MPH – *Columbia University, New York, USA*

Viscoelastics

Dana Blumberg, MD, MPH – *Columbia University, New York, USA*

Lens staining/Capsulorrhexis, Hydrodissection/Hydrodelineation

Lisa Park, MD – *Columbia University, New York, USA*

Phaco techniques

Roslyn M. Stahl – *Columbia University, New York, USA*

Cortical removal / IOL insertion

LeeJee H. Suh, MD – *Columbia University, New York, USA*

Handling complications: Capsular Rupture / Anterior vitrectomy

Danielle Trief, MD – *Columbia University, New York, USA*

Handling complex cases: small pupil/pseudoexfoliation/floppy iris

George Cioffi, MD – *Columbia University, New York, USA*

Postoperative management

Roslyn M. Stahl – *Columbia University, New York, USA*

PHACO WORKSHOP

How to prepare for phaco: dry-lab demonstration

Lisa Park, MD – *Columbia University, New York, USA*

January 13, 2021 – Wednesday

9:00 AM

Cataract and Phaco – Q&A and Discussion *live session*

Paul Krawitz, MD – *Columbia University, New York, USA*

Grace Sun, MD – *Weill Cornell Medicine, New York, USA*

Lisa Park, MD – *Columbia University, New York, USA*

George Cioffi, MD – *Columbia University, New York, USA*

James Auran, MD – *Columbia University, New York, USA*

Dana Blumberg, MD, MPH – *Columbia University, New York, USA*

Roslyn M. Stahl – *Columbia University, New York, USA*

LeeJee H. Suh, MD – *Columbia University, New York, USA*

Danielle Trief, MD – *Columbia University, New York, USA*

Fundamentals of Perimetry (1 hour)

George Cioffi, MD – *Columbia University, New York, USA*

Examination of the Optic Nerve (1 hour)

Jeffrey M. Liebmann, MD – *Columbia University, New York, USA*

Structure-Function Relationship in Glaucoma (1 hour)

Gustavo De Moraes, MD – *Columbia University, New York, USA*

Optical Coherence Tomography (1 hour)

Don Hood, PhD – *Columbia University, New York, USA*

Optic Nerve Head Biomechanics (1 hour)

Claude F. Burgoyne, MD – *Devers Eye Institute, Portland, USA*

Glaucoma laboratory science (1 hour)

Gulgün Tezel, MD – *Columbia University, New York, USA*

January 14, 2021 – Thursday

9:00 AM	Glaucoma Risk Factors (1 hour) Dana Blumberg, MD, MPH – <i>Columbia University, New York, USA</i> Glaucoma genetics (1 hour) Aliaa Abdelhakim, MD, PhD – <i>Columbia University, New York, USA</i> Secondary Glaucomas (1 hour) Sung Chul (Sean) Park, MD – <i>Manhattan Eye, Ear and Throat Hospital, New York, USA</i> Major Prospective Trials in Glaucoma (1 hour) Dana Blumberg, MD, MPH – <i>Columbia University, New York, USA</i> Minimally Invasive Glaucoma Surgery and Laser Surgery (1 hour) Noga Harizman, MD – <i>Columbia University, New York, USA</i> Case presentations & decision making: OHT, XFG, target IOP, surgical decisions (1 hour) Jeffrey M. Liebmann, MD – <i>Columbia University, New York, USA</i> Gustavo De Moraes, MD – <i>Columbia University, New York, USA</i> GLAUCOMA DRY LAB WORKSHOP (1 hours) Introduction to Glaucoma Surgery Noga Harizman, MD – <i>Columbia University, New York, USA</i>
----------------	--

MODULE 3 – NEURO-OPTHALMOLOGY, PATHOLOGY, ONCOLOGY

January 15, 2021 – Friday

9:00 AM	Glaucoma – Q&A and Discussion (0.5 hours) live session George Cioffi, MD – <i>Columbia University, New York, USA</i> Jeffrey M. Liebmann, MD – <i>Columbia University, New York, USA</i> Gustavo De Moraes, MD – <i>Columbia University, New York, USA</i> Don Hood, PhD – <i>Columbia University, New York, USA</i> Claude F. Burgoyne, MD – <i>Devers Eye Institute, Portland, USA</i> Gulgul Tezel, MD – <i>Columbia University, New York, USA</i> Dana Blumberg, MD, MPH – <i>Columbia University, New York, USA</i> Aliaa Abdelhakim, MD, PhD – <i>Columbia University, New York, USA</i> Sung Chul (Sean) Park, MD – <i>Manhattan Eye, Ear and Throat Hospital, New York, USA</i> Noga Harizman, MD – <i>Columbia University, New York, USA</i> Neuro-Ophthalmology of Pupil (1 hour) Golnaz Moazami, MD – <i>Columbia University, New York, USA</i> Neuromyelitis Optica (NMO), MOG antibody demyelination, paraneoplastic and autoimmune diseases (2 hours) John J. Chen, MD, PhD – <i>Mayo Clinic, Rochester, USA</i> Giant Cell Arteritis (AION), Ischemic Optic Neuropathy (NAION) (1 hour) Jeffrey Odel, MD – <i>Columbia University, New York, USA</i> Idiopathic Intracranial Hypertension, Papilledema, Pseudopapilledema (1 hour) Marc J. Dinkin, MD – <i>Weill Cornell Medicine, New York, USA</i> Oculomotor System and Vestibular Ocular Reflex (1 hour) Michael Goldberg, MD – <i>Columbia University, New York, USA</i> Clinical Eye Movement Disorders: Cortex, Brainstem and Cerebellar Disorders (1 hour) Linus Sun, MD, PhD – <i>Columbia University, New York, USA</i> Sixth Sense (1 hour) Jeffrey Odel, MD – <i>Columbia University, New York, USA</i>
----------------	--

January 18, 2021 – Monday

9:00 AM	Neuro-Ophthalmology I – Q&A and Discussion (0.5 hours) live session Golnaz Moazami, MD – <i>Columbia University, New York, USA</i> John J. Chen, MD, PhD – <i>Mayo Clinic, Rochester, USA</i> Jeffrey Odel, MD – <i>Columbia University, New York, USA</i> Marc J. Dinkin, MD – <i>Weill Cornell Medicine, New York, USA</i> Michael Goldberg, MD – <i>Columbia University, New York, USA</i>
----------------	---

Linus Sun, MD, PhD – *Columbia University, New York, USA*
Functional Neuro-Ophthalmology (1 hour)
Jonathan Trobe, MD – *University of Michigan, Ann Arbor, USA*
Interpretation of VF (1 hour)
Jonathan Trobe, MD – *University of Michigan, Ann Arbor, USA*
Visual Pathway Representations in Cortex - Strabismus and Amblyopia, Cortical Vision Loss, Wilbrand's Knee and Lesions of Optic Chiasm (2 hours)
Jonathan C. Horton, MD, PhD – *University of California, San Francisco, USA*
Neuro-Ophtho-Radiology (1 hour)
Gul Moonis, MD – *Columbia University, New York, USA*
Neurovascular Disorders: Amaurosis Fugax, Posterior Circulation, posterior reversible encephalopathy syndrome (1 hour)
Mitchell Elkind, MD – *Columbia University, New York, USA*
Multiple Sclerosis and Other Neuro-Inflammatory Syndromes (1 hour)
Claire S. Riley, MD – *Columbia University, New York, USA*
Headache and Vision (1 hour)
Marianna Yugrakh, MD – *Columbia University, New York, USA*

January 19, 2021 – Tuesday

9:00 AM **Neuro-Ophthalmology II – Q&A and Discussion (0.5 hours) live session**
Jonathan Trobe, MD – *University of Michigan, Ann Arbor, USA*
Jonathan C. Horton, MD, PhD – *University of California, San Francisco, USA*
Gul Moonis, MD – *Columbia University, New York, USA*
Mitchell Elkind, MD – *Columbia University, New York, USA*
Claire S. Riley, MD – *Columbia University, New York, USA*
Marianna Yugrakh, MD – *Columbia University, New York, USA*
Thyroid Eye Disease – Evaluation and Medical Management (1 hour)
Peter Dolman, MD – *University of British Columbia, Vancouver, Canada*
Thyroid Eye Disease – Surgical Management (1 hour)
Michael Kazim, MD – *Columbia University, New York, USA*
Pediatric Orbital Tumors Management (1 hour)
William R. Katowitz, MD – *Children's Hospital of Philadelphia, Philadelphia, USA*
Adult Orbital Tumors Management (1 hour)
Michael Kazim, MD – *Columbia University, New York, USA*
Eyelid Tumors, Reconstruction and Malpositions (1 hour)
Lora Glass, MD – *Columbia University, New York, USA*
Lacrimal System Disorders Evaluation and Management/Management of Anophthalmic Socket (1 hour)
Kyle Godfrey, MD – *Weill Cornell Medicine, New York, USA*
Orbital and Eyelid Trauma (1 hour)
Alexandra Braunstein, MD – *Columbia University, New York, USA*

January 20, 2021 – Wednesday

9:00 AM **Oculoplastics – Q&A and Discussion (0.5 hours) live session**
Peter Dolman, MD – *University of British Columbia, Vancouver, Canada*
Michael Kazim, MD – *Columbia University, New York, USA*
William R. Katowitz, MD – *Children's Hospital of Philadelphia, Philadelphia, USA*
Michael Kazim, MD – *Columbia University, New York, USA*
Lora Glass, MD – *Columbia University, New York, USA*
Kyle Godfrey, MD – *Weill Cornell Medicine, New York, USA*
Alexandra Braunstein, MD – *Columbia University, New York, USA*
Pathophysiology of Ocular Tumors (5 hours)
Brian Marr, MD – *Columbia University, New York, USA*

January 21, 2021 – Thursday

9:00 AM	<p>Ocular Tumors – Q&A and Discussion (0.5 hours) live session Brian Marr, MD – <i>Columbia University, New York, USA</i></p> <p>WORKSHOP – ANATOMY OF THE ORBIT</p> <p>The Orbital Apex (1 hour) Daniel Casper, MD – <i>Columbia University, New York, USA</i></p> <p>Blepharoplasty: Indications, Techniques, Complications (1 hour) Jeffrey Ascherman, MD – <i>Columbia University, New York, USA</i></p> <p>Facial Rejuvenation: Botulinum Toxin & Fillers Lora R. Glass, MD – <i>Columbia University, New York, USA</i></p> <p>Dissection Workshop (2 hours) Daniel Casper, MD – <i>Columbia University, New York, USA</i></p>
---------	---

MODULE 4 – RETINAL DISEASES

January 22, 2021 – Friday	<p>Anatomy of the Orbit – Q&A and Discussion (0.5 hours) live session John Merriam, MD – <i>Columbia University, New York, USA</i> Jeffrey Ascherman, MD – <i>Columbia University, New York, USA</i> Martin Leib, MD – <i>Columbia University, New York, USA</i> Daniel Casper, MD – <i>Columbia University, New York, USA</i></p> <p>Retinal pigment epithelium in disease and fundus autofluorescence (1 hour) Janet Sparrow, PhD – <i>Columbia University, New York, USA</i></p> <p>Adaptive Optics and its role in the Diagnosis and Management of Retinal Disorders (1 hour) Richard B. Rosen, MD – <i>Icahn School of Medicine at Mount Sinai, New York, USA</i></p> <p>Retinal imaging (1 hour) Gadi Wollstein, MD – <i>New York University, New York, USA</i></p> <p>Ultrasound Imaging in Retinal Disease (1 hour) Ronald H. Silverman, PhD – <i>Columbia University, New York, USA</i></p> <p>Optical coherence tomography angiography (OCTA) (1 hour) David Huang, MD, PhD – <i>Oregon Health & Science University, Portland, USA</i></p>
---------------------------	--

January 25, 2021 – Monday

9:00 AM	<p>Eye Imaging – Q&A and Discussion (0.5 hours) live session Janet Sparrow, PhD – <i>Columbia University, New York, USA</i> Richard B. Rosen, MD – <i>Icahn School of Medicine at Mount Sinai, New York, USA</i> Gadi Wollstein, MD – <i>New York University, New York, USA</i> Ronald H. Silverman, PhD – <i>Columbia University, New York, USA</i> David Huang, MD, PhD – <i>Oregon Health & Science University, Portland, USA</i></p> <p>New Targets for AMD Pharmacotherapy (1 hour) Antonio Ciardella, MD – <i>Policlinico S.Orsola-Malpighi, Universita di Bologna, Italy</i></p> <p>Update on Diabetic Retinopathy Treatment (1 hour) Srilaxmi Bearely, MD – <i>Columbia University, New York, USA</i></p> <p>Central Serous Chorioretinopathy: Towards and Evidence-Based Treatment Guideline (1 hour) Lawrence Yannuzzi, MD – <i>New York University, New York, USA</i></p> <p>Multimodal Imaging as a Diagnostic Tool for Uveitis (1 hour) Royce Chen, MD – <i>Columbia University, New York, USA</i></p> <p>New Agents and Changing Patterns for the Treatment of Uveitis (1 hour) Nida Sen, MD – <i>National Eye Institute, Bethesda, USA</i></p> <p>Uveitis in Patients with CTLA-4 and PD-1 Checkpoint Blockade Inhibition (1 hour) Henry J. Kaplan, MD – <i>University of Louisville, Louisville, USA</i></p>
---------	---

January 26, 2021 – Tuesday

9:00 AM	Retinal Diseases I – Q&A and Discussion (0.5 hours) <i>live session</i> Antonio Ciardella, MD – <i>Policlinico S.Orsola-Malpighi, Universita di Bologna, Italy</i> Srilaxmi Bearely, MD – <i>Columbia University, New York, USA</i> Lawrence Yannuzzi, MD – <i>New York University, New York, USA</i> Royce Chen, MD – <i>Columbia University, New York, USA</i> Nida Sen, MD – <i>National Eye Institute, Bethesda, USA</i> Henry J. Kaplan, MD – <i>University of Louisville, Louisville, USA</i>
	Using OCT to improve the outcomes of Macular Surgery (1 hour)
	Stanley Chang, MD – <i>Columbia University, New York, USA</i>
	Human Amniotic Membrane Grafting for Large and Persistent Macular Holes (1 hour)
	Tongalp Tezel, MD – <i>Columbia University, New York, USA</i>
	Keeping the Head Down, or Not? (1 hour)
	Jason Horowitz, MD – <i>Columbia University, New York, USA</i>
	Artificial Intelligence for Diabetic Retinopathy Screening (1 hour)
	Michael D. Abramoff, MD, PhD – <i>University of Iowa, Iowa City, USA</i>
	Robotics and Eye Surgery (1 hour)
	Peter L. Gehlbach, MD, PhD – <i>Johns Hopkins University, Baltimore, USA</i>

MODULE 5 – PEDIATRIC EYE DISEASES AND OPHTHALMIC GENETICS

January 27, 2021 – Wednesday

9:00 AM	Retinal Diseases II – Q&A and Discussion (0.5 hours) <i>live session</i> Stanley Chang, MD – <i>Columbia University, New York, USA</i> Tongalp Tezel, MD – <i>Columbia University, New York, USA</i> Jason Horowitz, MD – <i>Columbia University, New York, USA</i> Michael D. Abramoff, MD, PhD – <i>University of Iowa, Iowa City, USA</i> Peter L. Gehlbach, MD, PhD – <i>Johns Hopkins University, Baltimore, USA</i>
	Introduction to strabismus: classification, sensory and motor testing (1 hour)
	Sonali Talsania, MD – <i>Columbia University, New York, USA</i>
	Amblyopia: diagnosis, classification, pathogenesis, and management (1 hour)
	Pamela F. Gallin, MD, FACS – <i>Columbia University, New York, USA</i>
	Strabismus surgery: procedures and fundamentals (1 hour)
	Steven Brooks, MD – <i>Columbia University, New York, USA</i>
	Retinopathy of prematurity (1 hour)
	Steven Brooks, MD – <i>Columbia University, New York, USA</i>
	Pediatric Neuro-Ophthalmology (1 hour)
	Steven Kane, MD – <i>Columbia University, New York, USA</i>
	Pediatric Cataracts & Glaucoma (1 hour)
	Steven Kane, MD – <i>Columbia University, New York, USA</i>

January 28, 2021 – Thursday

9:00 AM	Pediatric Eye Diseases – Q&A and Discussion (0.5 hours) <i>live session</i> Sonali Talsania, MD – <i>Columbia University, New York, USA</i> Pamela F. Gallin, MD, FACS – <i>Columbia University, New York, USA</i> Steven Brooks, MD – <i>Columbia University, New York, USA</i> Steven Kane, MD – <i>Columbia University, New York, USA</i>
	Common congenital anomalies of the eye (1 hour)
	Irene Maumenee, MD – <i>Columbia University, New York, USA</i>
	Electrodiagnostic (EDD) Cases (Hereditary & Acquired) (2 hours)
	Graham E. Holder, MD – <i>National University of Singapore, Singapore</i>
	Gene therapy for retinal disorders: gateways and obstacles in drug development (1 hour)
	Katherine A. High, MD – <i>Rockefeller University, New York, USA</i>
	Stem Cell Therapy (1 hour)
	Masayo Takahashi, MD, PhD – <i>RIKEN Center for Developmental Biology, Kobe, Japan</i>

Genetic Testing in Ophthalmology (1 hour)

Megan Soucy, MS – *Columbia University, New York, USA*

January 29, 2021 – Friday

9:00 AM

Ophthalmic Genetics I – Q&A and Discussion (0.5 hours) *live session*

Irene Maumenee, MD – *Columbia University, New York, USA*

Graham E. Holder, MD – *National University of Singapore, Singapore*

Katherine A. High, MD – *Rockefeller University, New York, USA*

Masayo Takahashi, MD, PhD – *RIKEN Center for Developmental Biology, Kobe, Japan*

Megan Soucy, MS – *Columbia University, New York, USA*

Ophthalmic Genetics Case Presentations (4 hours)

Anthony Moore, MD – *University of California San Francisco, San Francisco, USA*

Irene Maumenee, MD – *Columbia University, New York, USA*

BSCO students

Retinal metabolomics in health and disease (1 hour)

James Hurley, PhD – *University of Washington, Seattle, USA*

Mitochondrial Etiology of Ophthalmic Diseases (1 hour)

Douglas C. Wallace, PhD – *University of Pennsylvania, Philadelphia, USA*

Ophthalmic Genetics II – Q&A and Discussion (0.5 hours) *live session*

James Hurley, PhD – *University of Washington, Seattle, USA*

Douglas C. Wallace, PhD – *University of Pennsylvania, Philadelphia, USA*

4:00 PM

CLOSING CEREMONY – ONLINE MIXER *live session*