

The month-long Basic Science Course in Ophthalmology incorporates over 160 hours of lectures and workshops by a faculty of over 80 distinguished experts. Among them are:

Ronald H. Silverman, PhD
Course Director
Stephen H. Tsang, MD, PhD
Co-Director
Lama A. Al-Aswad, MD
Rando Allikmets, PhD
Jeffrey Ascherman, MD
James Drake Auran, MD
Srilaxmi Beareilly, MD
Robert A. Braunstein, MD
Alexandra L. Braunstein, MD
Steven Brooks, MD
Dana Blumberg, MD, MPH
Daniel S. Casper, MD, PhD
Jonathan Chang, MD
Stanley Chang, MD
Royce W.S. Chen, MD
George A. Cioffi, MD
Jackson Coleman, MD
Arthur Cotliar, MD
C. Gustavo De Moraes, MD
Nancy Fan-Paul, MD
George Florakis, MD
Pamela Gallin, MD
Michael Goldberg, MD
B. David Gorman, MD
Vivienne Greenstein, PhD
Jason Horowitz, MD
Donald Hood, PhD
Michael Kazim, MD
Stephen Kane, MD, PhD
Paul L. Krawitz, MD
Martin L. Leib, MD
Jeffrey M. Liebmann, MD
Robert Lopez, MD
Carol Mason, PhD
John C. Merriam, MD
Golnaz Moazami, MD
Jeffrey G. Odel, MD
Louis D. Pizzarello, MD
Hermann D. Schubert, MD
Janet R. Sparrow, PhD
Leejee H. Suh, MD
Linus Sun, MD
Andrei Tkatchenko, PhD
Stephen Trokel, MD
Tongalp Tezel, MD
Michael Weiss, MD
Lauren Yeager, MD
Xin Zhang, PhD



**COLUMBIA UNIVERSITY
MEDICAL CENTER**



Ronald Silverman, PhD
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Columbia University Medical Center
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 **NewYork-Presbyterian**
Columbia University Medical Center

Edward S. Harkness Eye Institute

Basic Science Course in Ophthalmology

January 7 - February 1, 2019



Learning with Columbia University...



- Over 100 hours of lectures
- Two days of instruction in optics, refraction, and retinoscopy
- Imaging workshops, including ultrasound, OCT, the pentacam and keratography
- An introduction to microsurgery with a phacoemulsification and lens folding wet lab
- An introduction to glaucoma surgery with a trabeculectomy and valve implant wet lab
- A two-day dissection of the lid, lacrimal system and orbit

Since 1941, the Edward S. Harkness Eye Institute at the Columbia University Department of Ophthalmology has offered an ophthalmology basic science course. While the focus of the course is resident training, it has also proven useful for the visual sciences community as a whole. Coursework examines the fundamentals of vision and emphasizes how these basic principles relate to patient care.

The curriculum is developed by a committee of active scientists, practicing clinicians and the chief academic resident, and is updated annually to include the most recent scientific advances as well as any controversial developments in the field. It is also continuously revised in response to feedback from previous course evaluations. An international faculty of more than 80 clinicians and scientists is chosen based on expertise, clarity of presentation, and visual aids.



Students participating in orbital dissection course.

2019 Course Outline

January 7 – February 1, 2019



Class of 2018 with Ronald Silverman, PhD, BSCO Course Director

WEEK 1	Anatomy / Embryology Pediatrics
WEEK 2	Pathology Retina / Vitreous Optics
WEEK 3	Inflammatory Disease Cornea / Refractive Surgery
WEEK 4	Glaucoma / Cataracts Pediatrics Neuro-Ophthalmology
WORKSHOPS	Phacoemulsification Glaucoma Surgery Cadaver Orbital Dissections Refraction / Retinoscopy Imaging

REGISTRATION FORM

NAME: FIRST MIDDLE LAST
 ADDRESS:
 CITY: STATE:
 ZIP CODE: COUNTRY:
 TELEPHONE: FAX:
 EMAIL:

RESIDENCY PROGRAM

CHAIRMAN/DIRECTOR:
 ADDRESS:
 CITY: STATE:
 ZIP CODE: COUNTRY:
 TELEPHONE: FAX:
 GENDER: M F DATE OF BIRTH: (for security purposes)

TUITION

Early Registration \$2,000 (ends November 24, 2018)
 Late Registration \$2,300 (ends December 20, 2018)

METHOD OF PAYMENT:
 CREDIT CARD CHECK (made out to CUMC Department of Ophthalmology)
 CREDIT CARD NUMBER: EXP. DATE:
 SIGNATURE:

Please mail, fax or email completed form and payment to:
 Giselle Gonzalez, Course Manager
 Columbia University Medical Center
 635 West 165th Street, Ste. 218/Box 20
 New York, NY 10032

Tel: 212-305-7199 | Fax: 212-305-5962

email: bsco@columbia.edu

Register and pay online at
columbiaeye.org/education/the-basic-science-course