The month-long Basic Science Course in Ophthalmology incorporates OVER 125 HOURS OF LECTURES and workshops by a faculty of OVER 80 DISTINGUISHED EXPERTS.

Andrei Tkatchenko, MD, PhD–Course Director
Ronald Silverman, PhD–Co-Director

Faculty

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Tongalp H. Tezel, MD
Michael Weiss, MD
Gadi Wollstein, MD
Lauren B. Yeager, MD
Tingting Yang, PhD
Xin Zhang, PhD
**FEATURES & BENEFITS**

- Over 125 hours of lectures
- Instruction in optics, refraction, and retinoscopy
- 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

**MODULES**

- Retina/Ocular Oncology
- Neuro-Ophthalmology/Pathology
- Glaucoma/Cataract/Ophthalmic Genetics
- Cornea/Refractive Error/Myopia Control

Developed by a committee of world renowned scientists and practicing clinicians, the basic science course in the Edward S. Harkness Eye Institute at the Columbia University Department of Ophthalmology offers residents and vision scientists a deep dive into the most recent scientific advances in Ophthalmology.

The curriculum examines the fundamentals of vision and emphasizes how these basic principles relate to patient care. Since 1941, the basic science course in Ophthalmology has drawn leading experts who are nationally and internationally recognized for their contributions to science. While the focus of the course is resident training, it has also proven useful for the visual sciences community as a whole.