8:00 AM  Registration and Continental Breakfast

8:55 – 9:00 AM  Introduction
Angelo P. Tanna, MD
Vice Chairman, Associate Professor of Ophthalmology

9:00 – 9:11 AM  The Global Consensus on Keratoconus and Corneal Ectasias
Robert Feder, MD, MBA
Professor of Ophthalmology

9:11 – 9:22 AM  MicroRNAs, Autoagy and the Limbal Epithelium
Robert M. Lavker, PhD
Professor of Dermatology

Myron Lewyckij, MD
Instructor of Ophthalmology

9:33 – 9:44 AM  Epithelial Ingrowth in Endothelial Keratoplasty
Ritika Rajul Dalal, DNB
Cornea Research Fellow

Anupama Archala, MD
Assistant Professor of Ophthalmology

Surendra Basti, MD
Professor of Ophthalmology

10:06 – 10:26 AM  Break

10:26 – 10:37 AM  Photoreceptor Loss in Ischemic Maculopathy in Patients with Diabetes Mellitus
Fabio Scarrinco, MD
Retina Research Fellow

10:37 – 10:48 AM  Stochastic Optical Reconstruction Microscopy (STORM) of Cone Synapses in the Mammalian Retina
Steven H. DeVries, MD, PhD
Professor of Ophthalmology and Physiology

10:48 – 10:59 AM  Circuit Mechanisms of Orientation Selectivity in the Mouse Retina
Gregory W. Schwartz, PhD
Assistant Professor of Ophthalmology and Physiology

11:00 AM  Robert Miller Memorial Lecture
Chronic Intermittent Hypoxia: The $100B Disease You Might Be Missing Every Day
Charles Bouchard, MA, MD
John P. Mulcahy Professor and Chairman of Ophthalmology
Loyola University Chicago Stritch School of Medicine

12:00 PM  Lunch
Dr. Theodore Krupin Memorial

12:00 PM – 1:45 PM  Break

1:45 – 2:00 PM  Health Care Disparities in Diabetic Eye Disease in Chicagoland: A Population Based Study
Paul Bryar, MD
Professor of Ophthalmology

2:00 – 2:11 PM  Clinical Applications of Hyperspectral Retinal Imaging
Joel Kaluny, BS
Medical Student

2:11 – 2:22 PM  Current Status of Visible-Light OCT: From Rodents to Humans
Hao F. Zhang, PhD
Associate Professor of Biomedical Engineering and Ophthalmology

2:22 – 2:33 PM  Vis-OCT Metabolic Retinal Imaging in Ischemic Retinopathy
Brian Soetikno, BS
Medical Student

2:33 – 2:44 PM  Vis-OCT Metabolic Retinal Imaging in Ischemic Retinopathy
Brian Soetikno, BS
Medical Student

2:44 – 2:55 PM  Early Detection of Choroidal Neovascularization Using Vis-OCT
Ronal Shah, BA
Medical Student

2:55 – 3:10 PM  Factors Shaping Exocytosis from Photoreceptors
Chad P. Grabner, PhD
Research Assistant Professor of Ophthalmology

3:10 – 3:21 PM  Stochastic Optical Reconstruction Microscopy (STORM) of Cone Synapses in the Mammalian Retina
Steven H. DeVries, MD, PhD
Professor of Ophthalmology and Physiology

3:21 – 3:32 PM  Safety and Effectiveness of Ologen Collagen Matrix versus Mitomycin-C in Glaucoma Filtering Surgery: Two-Year Results of a Multicenter Randomized Clinical Trial
Angelo P. Tanna, MD
Vice Chairman, Associate Professor of Ophthalmology

3:32 – 3:43 PM  TBD

3:43 – 3:54 PM  Update on the Multimodality ERG
Safa Rahmani, MD, MS
Ophthalmology Resident, PGY4

3:54 – 4:05 PM  BDNF Prevents Retinal Ganglion Cell Degeneration Post Chronic or Acute Injury
Xiaorong Liu, PhD
Assistant Professor of Ophthalmology

4:05 – 4:16 PM  Watching a Movie with the Fellow Eye May Help Keep the Operated Eye Steady During Surgery
Iordanis Chatziangelidis, MD, FEBO
Visiting Scholar

4:16 – 4:27 PM  Polypoidal Choroidal Vasculopathy: OCT Analysis of Treatment Response
Joseph M. Simonett, BS
Medical Student

4:27 – 4:38 PM  Factors Shaping Exocytosis from Photoreceptors
Chad P. Grabner, PhD
Research Assistant Professor of Ophthalmology

4:38 – 4:49 PM  Distinguishing Intracranial Masses Based on Radiographic Imaging
Ann Jayaram, MD
Ophthalmology Resident, PGY4

4:49 – 5:00 PM  Algorithmic Detection of Best Corrected Visual Acuity (BCVA) from Ophthalmology EHR Notes
Michael Mbagwu, BS
Medical Student

5:00 – 5:11 PM  Orcam - We're Getting Close
Manus Kraff, MD
Professor of Clinical Ophthalmology

5:11 PM  Closing Remarks
Nicholas J. Volpe, MD
George and Edwina Tarry Professor and Chairman, Department of Ophthalmology
Thirty First Annual
Ophthalmology and Vision Research Day

Northwestern University Feinberg School of Medicine

Posters

Biomarkers of Proliferative Diabetic Retinopathy
William Cheng, BA

The Influence of Race and Gender on the Risk of Hair Loss Secondary to Methotrexate in the Treatment of Uveitis and Scleritis
Sarah Escott, MD
Ophthalmology, Uveitis Fellow

Activation of NLRP3 Inflammasome in Mice with the Optic Nerve Crush Injury
Liang Feng, PhD
Senior Research Associate

Visual Function in Patients with Amyotrophic Lateral Sclerosis
Russell Huang, BS

Outcomes Analysis of Ahmed vs. Baerveldt Tube Shunts During Glaucoma Fellowship
Noureen Khan, MD
Ophthalmology, Glaucoma Fellow

Ocular Manifestations of Alzheimer’s Disease and Mild Cognitive Impairment
Brianna Knoll, BS

Retinal Oxidative Stress in a Mouse Model of Bronchopulmonary Dysplasia
Michelle Lajko, MS
Research Technician

Retinoschisis in Pars Planitis
Julia Malale, MD
Ophthalmology, Uveitis Fellow

The Impact of HER Software Performance on Charting Efficiency
Ryan Ridges, MD
Ophthalmology, Diseases of the Retina Fellow

Long Term Evaluation of MEK 162 Inhibitor/PI3 Kinase Inhibitor Chemotherapy on Retinal Toxicity with Multimodal Imaging
Alan Sheyman, MD
Ophthalmology, Vitreoretinal Diseases and Surgery Fellow

Classification of Hypotony Maculopathy
Allison Soneru, MD
Ophthalmology Resident, PGY3

Alcon—Exhibitor

Northwestern University
Feinberg School of Medicine

Robert Miller Memorial Lecturer
Charles S. Bouchard, M.D.
John P. Mulcahy Professor and Chairman of Ophthalmology
Loyola University Chicago Stritch School of Medicine

Angelo P. Tanna, MD
Course Director

Dedicated to the Memory of Theodore Krupin, MD

June 26, 2015
Northwestern Memorial Hospital Feinberg Pavilion
Pritzker Auditorium, 251 E. Huron, Chicago, IL 60611