

27th Annual Symposium

Visual Sciences Research Center

Schedule

Friday, May 30, 2025

- 8:15 Continental Breakfast
- 9:00 **Irina Pikuleva**
Professor and Vice Chair of Research, Ophthalmology & Visual Sciences
Case Western Reserve University
Opening Remarks
- 9:10 **Johannes Von Lintig**
Professor, Pharmacology
Case Western Reserve University
Training Grant Update

Session 1 - Moderator: Johannes Von Lintig

- 9:15 **Corynn Appolonia**
Graduate Student, Pathology
Parameswaran Ramakrishnan Lab
Sam68 is required for angiogenesis and response to hypoxia in retinal endothelial cells
- 9:35 **Lauren Cruz**
Graduate Student, Population and Quantitative Health Sciences
Dana Crawford Lab
Co-Mentor, Jessica Cooke Bailey
Leveraging African Ancestry Genomic Data to Uncover Novel Risk Loci for Primary Open-Angle Glaucoma
- 9:55 **Seth Birrell**
Medical Student, Ophthalmology & Visual Sciences
Douglas Rhee Lab
Comparative Efficacy and Molecular Mechanisms of Latanoprost, Latanoprostene Bunod, and Netarsudil Combination Therapy in Intraocular Pressure Regulation
- 10:15 **Maryse Lapierre-Landry**
Research Assistant Professor, Biomedical Engineering
Michael Jenkins Lab
Fast, volumetric, in vivo functional imaging of the corneal nerves
- 10:35 **Break**

Keynote Presentation – Introduction: Paul Park

10:50 **Vadim Arshavsky**
Professor, Ophthalmology
Duke University School of Medicine
The photoreceptor outer segment: How to build a sensory ciliary organelle

11:50 – 1:20 Lunch and Poster Session

Session 2 - Moderator: Shigemi Matsuyama

1:20 **Zaiddodine Pashandi**
Postdoctoral Scholar, Pharmacology
Beata Jastrzebska Lab
Therapeutic Potential of Partial Retinoid Agonists in Rhodopsin Misfolding Disorders

1:40 **Sreelakshmi Vasudevan**
Postdoctoral Scholar, Ophthalmology & Visual Sciences
Paul Park Lab
Misfolding and aggregation of a constitutively active rhodopsin mutant

2:00 **Aicha Saadane**
Senior Research Associate, Pharmacology
Johannes Von Lintig Lab
Mouse Model for Matthew Woods Syndrome: Insights from Albino Mice and the Role of STRA6

2:20 **Laurence Johnson**
Graduate Student, University of Akron
Jordan Renna Lab
Outer Retinal Ribbons: Bipolar Cell Dendrites Join the Synaptic Dialogue

2:40 **Miljan Terzic**
Graduate Student, Northeast Ohio Medical University
Samuel Crish Lab
Sex-related differences in optic nerve glia of the 3xtg mouse model of Alzheimer's disease

3:00 **Break**

Session 3 – Moderator: Patricia Taylor

- 3:10 **Karen Hernadez**
Graduate Student, Pharmacology
Bela Anand-Apte Lab
Insulin Induces Outer Blood Retinal Barrier Breakdown via Claudin 19 Downregulation in Diabetic
- 3:30 **Abby Hite**
Graduate Student, Chemistry
Robert Salomon Lab
Pseudo Leukotrienes and Inflammatory Eye Disease
- 3:50 **Nicole El-Darzi**
Research Assistant, Ophthalmology & Visual Sciences
Irina Pikuleva Lab
The overwhelming chorioretinal effects of human-like hyperlipidemia in APOB100 transgenic mice on a western-type diet
- 4:10 **Scott Howell**
Research Scientist, Ophthalmology & Visual Sciences
Patricia Taylor Lab
Diabetes-Mediated STEAP4 Impacts the Development of Diabetic Retinopathy

Closing Remarks – Douglas Rhee

- 4:30 Reception in the Wolstein Research Building Lobby