



19th Annual Symposium Visual Sciences Research Center

Schedule

Friday, June 16, 2017

8:00 Continental Breakfast, Poster Setup

8:45 **Irina Pikuleva, Ph.D.**
Professor and Vice Chair of Research, Ophthalmology & Visual Sciences
Case Western Reserve University
Opening Remarks

Retina and Related Diseases – Moderator: Paul Park, Ph.D.

9:00 **Megan Gragg**
Graduate Student, Ophthalmology & Visual Sciences
Paul Park Lab
Structural and phenotypic characterization of a completely misfolded rhodopsin

9:15 **Philip Ropelewski**
Graduate Student, Pharmacology
Yoshikazu Imanishi Lab
Disrupted membrane protein homeostasis in a model of retinitis pigmentosa

9:30 **Vipul Parmar, Ph.D.**
Postdoctoral Scholar, Ophthalmology & Visual Sciences
Akiko Maeda Lab
A2E-associated cell death and inflammation in retinal pigmented epithelial cells derived from human induced pluripotent stem cells

9:45 **Aicha Saadane, Ph.D.**
Research Associate, Ophthalmology & Visual Sciences
Irina Pikuleva Lab
Efavirenz treatment reduces the accumulation of drusen and subretinal deposits in an Alzheimer's disease mouse model

10:00 **Beata Jastrzebska, Ph.D.**
Assistant Professor, Pharmacology
Chromophore binding specificity in rod opsin and green cone opsin

10:15 **Break**



Retina and Related Diseases – Moderator: Akiko Maeda, Ph.D.

- 10:30 **Mary Kelly**
Graduate Student, Pharmacology
Johannes Von Lintig Lab
Transport of vitamin A across blood-tissue barriers is facilitated by STRA6
- 10:45 **Daniel Ruminski, Ph.D.**
Postdoctoral Scholar, Pharmacology
Krzysztof Palczewski Lab
Two-photon ophthalmoscope for human infra-red vision testing
- 11:00 **Marcin Golczak, Ph.D.**
Assistant Professor, Pharmacology
Impact of LCA-associated E14L LRAT mutation on protein stability and retinoid homeostasis
- 11:15 **Philip Kiser, Ph.D.**
Assistant Professor, Pharmacology
Rational tuning of visual cycle modulator pharmacodynamics

11:30 – 1:00 Lunch & Poster Session

Diabetic Retinopathy – Moderator: Timothy Kern, Ph.D.

- 1:00 **Timothy Kern, Ph.D.**
Professor, Endocrinology
Case Western Reserve University
Introduction

Keynote Speaker
Lloyd P. Aiello, M.D., Ph.D.
Professor, Ophthalmology
Vice Chair for Centers of Excellence
Harvard Medical School
Pharmacologic and imaging revolutions in the treatment of diabetic eye disease
- 2:00 **Alexander Veenstra, Ph.D.**
Postdoctoral Scholar, Endocrinology
Timothy Kern Lab
Role of lymphocyte cells in diabetic retinopathy
- 2:15 **Sarah Lindstrom**
Research Technician, Ophthalmology & Visual Sciences
Patricia Taylor Lab
The Pathologic Role of Diabetes-Mediated IL-17A in Retinopathy
- 2:30 **Break**



Anterior Eye Segment – Moderator: Carol Toris, Ph.D.

- 2:45 **Douglas Rhee, M.D.**
Professor and Chairman, Ophthalmology & Visual Sciences
SPARC and glaucoma
- 3:00 **Carol Toris, Ph.D.**
Professor, Ophthalmology & Visual Sciences
The evolution of a glaucoma drainage device
- 3:15 **Padmanabhan Pattabiraman, Ph.D.**
Research Scientist, Ophthalmology & Visual Sciences
Douglas Rhee Lab
Clusterin, a secretory chaperone protein, regulates fibrogenic response, phagocytic activity and apoptosis in trabecular meshwork
- 3:30 **Jessica Cooke Bailey, Ph.D.**
Instructor, Epidemiology & Biostatistics
Jonathan Haines Lab
Association of ANGPT1 with primary open angle glaucoma
- 3:45 **Vincent Monnier, M.D.**
Professor, Pathology
The role of lens crystallin cysteine residue oxidation in the pathogenesis of age-related cataracts
- 4:00 **Hyunkeun Kim, Ph.D.**
Postdoctoral Scholar, Molecular Biology
Arne Rietsch Lab
Ca²⁺-dependent ADP-ribosylation of Gelsolin by ExoT
- 4:15 Announcement of Poster Winner
- Paul Park, Ph.D.**
Assistant Professor, Ophthalmology & Visual Sciences
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- 4:30 **Reception** Wolstein Research Building Lobby
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