



Department of Ophthalmology and Visual Sciences

Spring Vision Science Research Symposium

Friday, April 1, 2016
7:30 a.m. – 4:15 p.m.
UW Hospital and Clinics
750 Highland Ave.
1345 Health Science Learning Center

7:00 – 7:30 AM Continental Breakfast
7:30 – 7:40 AM Chair's Welcome: Terri Young, MD, MBA

Session I

Epidemiology

Moderator: Yao Liu, MD

7:45 – 8:05 AM **Barbara Klein, MD, MPH**
"Skin Intrinsic Fluorescence and Microvascular Complications of Diabetes in the WESDR"

8:05 – 8:25 AM **Karen Cruickshanks, PhD**
"Vision and Cognitive Changes in Aging: The Beaver Dam Offspring Study"

Session II

Retinal Disease

Moderator: Mihai Mititelu, MD, MPH

8:30 – 8:50 AM **Amani Fawzi, MD**
"Reticular Pseudodrusen vs. Subretinal Drusenoid Deposits: Insights from Multimodal Retinal Imaging and OCT Angiography"

8:50 – 9:10 AM **Akihiro Ikeda, PhD**
"Mitochondrial Dynamics and Age-dependent Retinal Abnormalities"

9:10 – 9:30 AM **Kimberly Stepien, MD**
"Use of Adaptive Optics Imaging to Better Understand Retinal Disease"

9:30 – 9:50 AM **Barbara Blodi, MD**
"Ultra Wide Imaging in Retinal Disease"

9:50 – 10:05 AM **Kimberly Toops, PhD**
"Organelle Defects in Models of Macular Degeneration"

10:05 – 10:25 AM **Break**

Session III

Glaucoma and Optic Nerve

Moderator: Gillian McLellan, PhD, BVMS

10:25 – 10:45 AM **John Fingert, MD, PhD**
"Genetic Studies of Normal Tension Glaucoma"



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- 10:45 – 11:05 AM** **Terri Young, MD, MBA**
“Molecular Genetics of Congenital Glaucoma”
- 11:05 – 11:25 AM** **Arnold Ruoho, PhD**
“Do Oligomeric States of the Sigma-1 Receptor Determine its Function?”
- 11:25 – 11:40 AM** **Margaret Maes, BSc**
“In Vivo Imaging of BAX Activation in Mouse Retinal Ganglion Cells”
- 11:40 AM – 12:00 PM** **Donna Peters, PhD**
“Activation of $\alpha\beta 3$ Integrin Causes a Glaucomatous Phenotype”
- 12:00– 12:15 PM** ***Special UWWMF Professorship of Ophthalmology and Visual Sciences presentation honoring Curtis R. Brandt, PhD, FARVO***
Robert N. Golden, MD - Dean, School of Medicine and Public Health
Terri L. Young, MD, MBA - Chair, Department of Ophthalmology and Visual Sciences
- 12:15 -1:15 PM** **Buffet Lunch**

Session IV

Inflammation

Moderator: Neal Barney, MD

- 1:15 – 1:35 PM** **Joseph Besharse, PhD**
“Subretinal Macrophages and Photoreceptor Loss in MFRP Deficient Mice: A Cautionary Tale”
- 1:35 – 1:55 PM** **T. Michael Nork, MD**
“Upregulation of Retinal Glutamate in Chronic Experimental Glaucoma”
- 1:55 – 2:15 PM** **Michael Altaweel, MD**
“54 Month Results of the Multicenter Uveitis Steroid Treatment Trial and Follow-up Study”
- 2:15 – 2:35 PM** **Rob Nickells, PhD**
“Attenuation of the Glial Neuroinflammatory Response in the Absence of Neuronal Death”
- 2:35 – 2:55 PM** **Curtis Brandt, PhD**
“Innate Responses to Gene Delivery Vectors in Neural Retina-Is There a Pro-/Anti-inflammatory Axis?”
- 2:55 – 3:05 PM** **Break**
- 3:05 – 4:05 PM** **Keynote Speaker: Dale Gregerson, PhD**
“‘Brainwashed’ by the Microglial Niche”
- 4:05 – 4:15 PM** **Closing Remarks: Terri Young, MD, MBA**

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