

Center for Vision Science Research Symposium

Friday, January 6, 2017

Genome and Biomedical Sciences Facility

Auditorium (Room 1005)

8:00 - 8:30 Catered Breakfast, GBSF Lobby

8:30 - 8:45 Center for Vision Science Update - **Paul FitzGerald, PhD**, Director, Center for Vision Science

Retiring Vision Science Faculty Tribute: Larry Hjelmeland

8:45 - 8:50 Introduction

8:50 - 9:20 *"Impaired Nrf2 and Wnt signaling in a new rodent model of geographic atrophy"*
James Handa, MD, Robert Bond Welch Professor, Professor of Ophthalmology, Wilmer Eye Institute, Johns Hopkins School of Medicine

9:20 - 9:50 *"In vivo OCT-based retinal microanatomy to guide diagnosis and therapies"*
Cynthia Toth, MD, Professor of Ophthalmology, Joseph A.C. Wadsworth Professor of Ophthalmology, Professor of Biomedical Engineering, Duke Eye Center, Duke University

9:50 - 10:05 Coffee Break

Campus Speakers

10:05 - 10:50 *"Cortical plasticity within and across lifetimes"*
Leah Krubitzer, PhD, Professor, Department of Psychology, UC Davis

10:50 - 11:35 *"Mitochondrial defects, optic neuropathy and screening for therapeutics"*
Gino Cortopassi, PhD, Professor, Department of Molecular Biosciences, UC Davis School of Veterinary Medicine

11:35 - 1:00 Catered Lunch, GBSF Lobby

1:00 - 1:30 *"Converging Evidence for Suppression of Salient Visual Stimuli"*
Nick Gaspelin, PhD, Postdoctoral Scholar, Center for Mind and Brain, Laboratory of Steve Luck, UC Davis

1:30 - 2:00 *"Contrast-dependent synchrony in the retinogeniculate circuit"*
Prescott Alexander, Neuroscience Graduate Group, Laboratory of Martin Usrey, UC Davis

2:00 - 2:45 *"Clearing debris from the optic nerve"*
Nick Marsh-Armstrong, PhD, Professor, Department of Ophthalmology and Vision Science, UC Davis School of Medicine

2:45 - 3:15 *"Optical coherence tomography angiography of the human retinal and choroidal vasculature"*
Justin Vincent Migacz, Biomedical Engineering Graduate Group, Laboratory of John Werner, UC Davis

3:15 - 3:30 Coffee Break

The John Keltner, MD Lectureship in Ophthalmology

3:30 - 5:00 Introduction - **Mark Mannis, MD**, Professor and Chair, Dept of Ophthalmology and Vision Science, UC Davis School of Medicine

"From Biomechanics to Proteomics - Toward the Mechanisms of Axonal Insult in Glaucoma"
Claude Burgoyne, MD, Glaucoma Clinician and Surgeon, Senior Scientist and Van Bushkirk Chair of Ophthalmic Research, Director, Optic Nerve Head Research Laboratory, Devers Eye Institute, Portland, Oregon; Clinical Professor of Ophthalmology, Oregon Health Sciences University

5:00 - 6:00 Reception, GBSF Lobby