

Center for Vision Science Research Symposium

Friday, January 8, 2016

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

Campus Speakers

8:45 - 9:30 *Investigating the Genetics of Ocular Disorders in Horses*
Rebecca Bellone, PhD, Associate Adjunct Professor, Dept of Population Health & Reproduction

9:30 - 10:15 *The Choroidal Vasculature in Age-Related Macular Degeneration*
Glenn Yiu, MD, PhD, Assistant Professor, Dept of Ophthalmology & Vision Science

10:15 - 10:30 Coffee Break

10:30 - 11:00 *Binocular composition in the brain*
Benjamin Lankow, Neuroscience Graduate Group, Laboratory of Martin Usrey, PhD

Keynote Lectureship

11:00 - 12:00 Introduction - **Paul FitzGerald, PhD**, Director, Center for Vision Science and **Ron Mangun, PhD**, Distinguished Professor of Psychology & Neurology, Center for Mind and Brain

The enigma of intermediate vision

Jack Gallant, PhD, Professor, Dept of Psychology, University of California, Berkeley

12:00 - 1:00 Catered Lunch, GBSF Lobby

Campus Speakers

1:00 - 1:45 *Gene-brain relationships in the fragile X spectrum of involvement: Insights from infant vision*
Susan Rivera, PhD, Professor, Dept of Psychology, Center for Mind and Brain, MIND Institute

1:45 - 2:15 *Rapid kinetics of the rod response to both dim and bright flashes in vivo*
Gabriel Peinado, Neuroscience Graduate Group, Laboratory of Marie Burns, PhD and Ed Pugh, Jr., PhD

2:15 - 2:45 *Ophthalmic findings from screening of the geriatric colony: an exemplar of an underutilized resource*
Jeffrey Roberts, DVM, Associate Director for Animal Resources, California National Primate Research Center, Professor, Dept of Medicine & Epidemiology
Sara Thomasy, DVM, PhD, DACVO, Associate Professor, Dept of Surgical & Radiological Sciences

2:45 - 3:15 *Retinal Microglia: Friend or Foe?*
Eric Miller, Neuroscience Graduate Group, Laboratory of Marie Burns, PhD and Ed Pugh, Jr., PhD

3:15 - 3:30 Coffee Break

3:30 - 4:15 *New methods for imaging blood flow and metabolism in the retina and choroid*
Vivek Srinivasan, PhD, Assistant Professor, Dept of Biomedical Engineering

The John Keltner, MD Lectureship in Ophthalmology

4:15 - 5:30 Introduction - **Mark Mannis, MD**, Professor and Chair, Dept of Ophthalmology & Vision Science and **Martin Usrey, PhD**, Professor and Chair, Dept of Neurobiology, Physiology & Behavior

Engineering the next generation of Neural Implants

Satinderpall Pannu, PhD, Section Leader for Micro and Nano Technology, Center for Micro and Nano Technology, Materials Engineering Division, Lawrence Livermore National Laboratory

5:30 - 6:30 Reception, GBSF Lobby