Date of Event: May 29, 2015 (7am – 2pm)

Participants: Neurology, Neurosurgery, Neuropathology, Psychiatry, Stanford Neurosciences Institute, Basic Neurosciences, Medical Students, Residents & Fellows

Location: Li Ka Shing Center for Learning and Knowledge, Berg Hall, 2nd Floor

Breakfast Reception (7:00am)
Opening Remarks & Welcome of Honored Guests (7:15am)
Speakers (7:30am – 9:00am)

Mariel Velez, MD., PhD
A biosensor for tracking seizures: linking a wrist accelerometer to an online seizure database

Fatemeh S. Mojabi, MD
Increased GABA-ergic innervation in the dentate gyrus of the Ts65Dn mouse model of Down syndrome

Christopher J. Gorini, PhD
Optogenetic Inhibition of Peripheral Motor Neurons

Kai Zhang, MD
Dopaminergic changes in Functional Connectivity during a Working Memory Task in Parkinson’s Disease

Allen Ho, MD
QKI loss maintains self-renewal of glioma stem cells in suboptimal environment

Ada Eban-Rothschield, MD
Optogenetic interrogation reveals a causal role for VTA dopaminergic neurons in the regulation of sleep and wakefulness

Brad Zuchero, PhD
CNS myelin wrapping is driven by actin disassembly

Coffee Break (9:00am – 9:15am)
Speakers (9:15am – 10:45am)

Terry C. Burns M.D., Ph.D.
Mouse Models Rarely Mimic the Transcriptome of Human Neurodegenerative Diseases: A Systematic Bioinformatics-based Critique of Preclinical Models

Amit Joshi, PhD
Consequence of Drp1/ Fis1 interaction in Alzheimer’s disease: Dangerous Liaisons

Gregory F. Corder, PhD
Evolving Amygdala Neuronal Networks Shape Unpleasantness in Neuropathic Pain States

Humsa Venkatesh, PhD
Neuronal Activity Promotes Glioma Growth through Neuroligin-3 Secretion

Keynote Speaker/Honored Guest
Philip Beachy, PhD
Department of Biochemistry and the Stem Cell, Secondary Appointment Developmental Biology
Hedgehog signaling in adult homeostasis, including sensory organs and the brain (10am – 10:45am)

Break (10:45am – 11:00)
Speakers (11:00am – 12:15pm)

Kai J. Miller, MD., PhD
A novel hippocampal stereotactic coordinate system

Victoria Lu, BS
Leveraging microRNA controls to develop novel treatments for spinal cord injury

Edward J. Bertaccini, MD
Molecular Modeling Leads to a New Class of Intravenous Anesthetics

Suzana Assad Kahn, PhD
Notch1 promotes MYC medulloblastoma metastasis, initiation and maintenance

Maria Catalina Camacho, BA
Accelerated Aging of the Putamen in Major Depressive Disorder: A Volumetric Analysis of the Basal Ganglia

Lyndia Wu, MS and Jake Hartley, BA
Using an Instrumented Mouthguard and High Speed Eye Tracking to Study Kinematic Dose and Neurological Response in Contact Sports

Amelia Christensen, PhD Candidate
Optogenetic control of the spinal cord in behaving mice

Luncheon Reception (12:15pm 1:00pm)
Poster Presentations (1:00pm- 2:00pm)

A Special Thanks to:
- Gary Steinberg, MD,PhD
  Professor and Chair, Department of Neurosurgery
- Frank M. Lange, MD,PhD
  Professor and Chair, Department of Neurology and Neurological Sciences
- Hannes Vogel, MD
  Professor of Pathology and of Pediatrics
- Tanya Raschke
  Senior Research Scientist, Stanford Neurosciences Institute
- Cyberonics
- Medtronic
- Depuy Synthes