2019 UC Berkeley Neuroscience Conference
Sep. 20-22, 2019
Granlibakken Conference Center

FRIDAY, September 20th

2:00–3:30PM: Arrival and Registration

3:00–3:30PM: Poster Set-Up (Bay Room)

3:30–5:00PM: Posters (Bay Room)
  Adesnik Lab
  Greg Telian
  Context Dependent Sensorimotor Processing During Active Sensation

  Adesnik/Waller Labs
  Yi Xue
  Three-dimensional Partial Coherent Holography for Photostimulation In Vivo

  Bateup Lab
  Daniel Kramer
  Deciphering Dopaminergic Heterogeneity Using a Novel Reporter Line

  Erin Aisenberg
  Novel Cell Type-specific Peptidergic Signaling in the Nucleus Accumbens

  Kamran Ahmed
  mTORC1 and mTORC2 Differentially Control Midbrain Dopamine Neuron Somatodendritic Morphology and Functional Output

  Vasiliki Karalis
  Raptor Downregulation Prevents TSC-related Phenotypes in Mice

  Cooper Lab
  Zeynep Başgöze
  Effects of Context on the Visual Stability of Depth Edges in Natural Scenes

  DeWeese Lab
  Louis Kang
  Replay as Wavefronts and Theta Sequences as Bump Oscillations in a Grid Cell Attractor Network
Dillin Lab
Holly Gildea
Astrocyte-like Glial Cells of C. Elegans Non-cell Autonomously Regulate Induction of the Cytosolic Unfolded Protein Response Through the Thermosensory Circuit

Feldman Lab
Sanika Ganesh
Transcriptional Changes During Experience-Dependent Plasticity in Somatosensory Cortex

Feller Lab
Mathew Summers
Synaptic Basis of Velocity Tuning in Direction Selective Circuits

Malak El-Quessny
Visual Experience Influences Dendritic Orientation While Maintaining Asymmetric Wiring of the Retinal Direction Selective Circuit

Franklin Caval-Holme
Gap Junction Coupling Shapes the Encoding of Light Intensity in the Neonatal Retina

Joshua Tworig
Impact of neuronal activity on Müller glial calcium transients and morphology during retinal development

Foster Lab
Bill Croughan
Fast Triggering of Brain Stimulation Contingent on the Trajectory Content of Online-detected Hippocampal Replay

Ingolia Lab
Wren Kim
Engineered Biotin Ligases to Investigate Neuronal Gene Expression

Isacoff Lab
Irene Grossrubatscher
Forebrain Modulation of Prey Capture in Zebrafish

Amy Winans
Ciliary Localization of a Neuronal GPCR Regulates Behavior

Krisha Aghi
Uncovering the Basis of Heterogeneity of Synaptic Probabilistic Release at the Drosophila Larval Neuromuscular Junction

Ji Lab
Qinrong Zhang
Fast Widefield Imaging of Neuronal Structure and Function with Optical Sectioning In Vivo
Kaufer Lab
Jessica Lin
*Inhibition of TGFβ-signaling Ameliorates Age-related Blood-brain Barrier Decline*

Lynn Yang
*Examining Blood-Brain Barrier Dysfunction in Neurological Disorders*

Alex Ehrenberg
*The Locus Coeruleus as a Substrate for Alzheimer's Disease Pathogenesis*

Siamak Sorooshayari
*Differentiating ECoG Signatures of Brain Aging via Machine Learning*

Knight Lab
Anais Llorens
*Preservation of Working Memory Capacity after Orbitofrontal Damage*

Kriegsfeld Lab
Emilio Emilio Soto Soto
*Teaching Transdisciplinary Neuroscience: Responsive Teaching To the Diversity of the Classroom*

Liu Lab
Sang Min Han
*High-throughput Estimation of Effective Connectivity Using Optogenetics*

QB3 High-throughput Screening Facility
Deepa Sridharan
*QB3 High-throughput Screening Facility Highlights*

Saijo Lab
Kurtresha Worden
*A Neurodevelopmental Disorder Risk Gene Regulates Microglia Function*

Laura Craciun
*Investigating the Role of TCF4 in Astrocyte Function and Brain Development*

Scott Lab
Stefanie Engert
*Gustatory Sensory Neurons in Drosophila Melanogaster are Interconnected via Axo-axonic Synapses*

Philip Shiu
*Identification of Neurons Comprising the Proboscis Extension Response (PER) Circuit*

Amanda Gonzalez-Segarra
*Coordination of Sucrose and Water Ingestion in D. Melanogaster*
Meghan Laturney
*Post Copulatory Changes in Feeding Behavior in Female Drosophila Melanogaster*

Gabriella Sterne
*Circuit-level Representations of Gustatory Reward in Drosophila*

**Shekhar Lab**
Karthik Shekhar
*Molecular Heterogeneity of the Vertebrate Retina: Form to Function*

**Theunissen Lab**
Kevin Yu
*Focal Lesions in Auditory Cortex of the Zebra Finch Cause Deficits in Auditory Discrimination but not in Forming Associative Memories of Auditory Objects*

**Wallis Lab**
Zuzanna Balewski
*OFC Representations Influence Choice Accumulation in ACC*

**Weiner Lab**
Willa Voorhies
*The Depth of Tertiary Sulci in Lateral Prefrontal Cortex Predicts the Development of Reasoning Performance*

**Wilbrecht Lab**
George Smith Prounis
*Developing to disperse: Striatal Dopamine Signaling at the Age of Peak Exploration, Risk Taking, and Novel Object Interaction in Wild Mice*

**Wyrobek Lab**
Andrew J. Wyrobek
*CSF Biomarkers for Neurological Risks*
5:00–6:00PM: SESSION 1 (Mountain-Lake Room)
  5:00–5:20: Opening Remarks
  5:20–5:40: John Widloski, Foster Lab
  5:40–6:00: Will Liberti, Carmena Lab

6:00–7:00PM: Dinner (Granhall)

7:00–9:30 PM: SESSION 2 (Mountain-Lake Room)
  7:00–7:50: Eric Betzig
  7:50–8:40: Edvard Moser, Norwegian University of Science and Technology
  8:40–9:30: Open conversation with Edvard Moser and students

10:00PM–1:30AM: Social (Ski Hut)

SATURDAY, September 21st

7:30–9:00AM: Breakfast (Granhall)
  Corey Goodman available to speak with students

9:00AM–11:00AM: SESSION 3 (Mountain-Lake Room)
  9:00–9:20: Storm Slivkoff, Gallant Lab
  9:20–9:50: Helen Bateup
  9:50–11:00: Third Year Data Slam

11:00–11:10AM: Coffee Break

11:10–12:00PM: SESSION 4 (Mountain-Lake Room)
  11:10–11:40: Marla Feller
  11:40–12:00: Prashant Donthamsetti, Isacoff Lab

12:00–1:00PM: Lunch (Granhall)

1:00–2:50PM: SESSION 5 (Mountain-Lake Room)
  1:00–1:30: Steve Piantadosi
  1:30–1:50: Katarina Slama, Knight Lab
1:50–2:20: Richard Kramer
2:20–2:40: Justin Theiss, Silver Lab
2:40–3:10: Chunlei Liu

3:10–6:00PM: Free Time

5:00–6:00PM: Faculty and Postdoc Social (Alumni Room)

6:00–7:00PM: Dinner (Granhall)

7:00–8:00PM: Posters (Award in Bay Room)

8:00PM–1:30AM: Talent Show and Social (Ski Hut)

**SUNDAY, September 22nd**

7:30-10:00AM: Breakfast (Granhall)

CHECKOUT BEFORE 11:00AM