

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

Krishna 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 TGF β -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 Sorooshyari

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