



2013 UC BERKELEY NEUROSCIENCE RETREAT  
GRANLIBAKKEN CONFERENCE CENTER  
OCTOBER 18 - 20, 2013

**FRIDAY, OCTOBER 18**

10 AM: Bus at UCB travel to Tahoe (for those who signed up)

3:00 to 4:00 PM: Arrival & Check-in

**4:00 - 6:20 PM: 1<sup>st</sup> Session in Mountain-Lake Room**

- 4:00 - 4:20 **Wendy de Heer**, Theunissen lab, "Cortical representation of natural speech 1: spectral, articulatory and semantic information"
- 4:20 - 4:40 **Alex Huth**, Gallant lab, "Cortical representation of natural speech 2: how the brain represents the meaning of speech"
- 4:40 - 5:00 **Colleen Kirkhart**, Scott lab, "Taste representations in the Drosophila mushroom body"

5:00 - 5:10 Coffee Break

- 5:10 - 5:30 **Sarah Hillenbrand**, Ivry lab, "Movements, errors, & rewards"
- 5:30 - 5:50 **Gautam Agarwal**, Redwood Center, "Spatially distributed local fields in the hippocampus encode rat position"
- 5:50 - 6:20 **Helen Bateup**, "Molecular mechanisms of synapse and circuit plasticity"

6:20 - 7:45 PM: Dinner in Granhall

**8:00 - 10:00 PM: 2<sup>nd</sup> session in Mountain-Lake Room**

- 8:00 - 8:30 **Director** remarks
- 8:30 - 9:00 **David Schaffer**, "Towards understanding and engineering stem cells in the central nervous system"
- 9:00 - 10:30 **3<sup>rd</sup> year students data slam** (17 students)

10:30 PM - 2:00 AM: Social in Ski Hut



## SATURDAY, OCTOBER 19

7:30-9:00 AM: Breakfast in Granhall

### 9:00 to 10:30 AM: 3<sup>rd</sup> Session in Mountain-Lake Room

- 9:00 - 9:20 **Ming-Chi Tsai**, Kramer lab, "Optical control of synaptic inhibition with LiGABAaR"
- 9:20 - 9:40 **Yvonne Fonken**, Knight lab, "Frontal contributions to response inhibition and task monitoring"
- 9:40 - 10:00 **Alana Wong**, Kaufer lab, "The role of stress receptors in brain plasticity"
- 10:00 - 10:30 **Linda Wilbrecht**, "Experience and the maturation of frontal lobe circuits in mice"

10:30 AM Coffee Break

### 10:40 - 12:10: 4<sup>th</sup> Session in Mountain-Lake Room

- 10:40 - 11:00 **Ryan Morehead**, Ivry lab, "Savings upon re-aiming in visuomotor adaptation"
- 11:00 - 11:20 **Drew Friedmann**, Isacoff lab, "Intrinsic photosensitivity a Zebrafish spinal circuit"
- 11:20 - 11:40 **Liberty Hamilton**, Bao lab, "Plasticity of functional connections in the auditory cortex"
- 11:40 - 12:10 **Evan Miller**, "Fluorescent tools for monitoring voltage"

12:15 - 1:45 PM: Lunch in Granhall

1:45 - 6:00 PM: Free Time

5:00 - 8:00 PM: Poster Set-up in Bay Room

6:00 - 8:00 PM: Dinner in Granhall

8:00 - 10:00 PM: Poster Session in Bay Room

#### Adesnik Lab

**Evan Lyall**, "Examining the effects of locomotion on spiking in L2/3 of the barrel cortex"

**Alexander Naka**, "Optogenetic investigation of transcolumnar cortical circuits"

**Scott Pluta**, "Spatial integration in the somatosensory cortex"

#### Bao Lab

**Robert Gibboni**, "Exploring a novel role for TNF-alpha in tinnitus"

#### Bautista Lab

**Takeshi Morita**, "Genetic mapping of novel molecular players in itch"

#### Dan Lab



**Julia Cox**, "Brain state modulation of brainstem activity"

Feinberg Lab

**Alex Beckett**, "Ultra-high spatial resolution fMRI at 7T using single-shot 3D GRASE with inner volume selection"

Feldman Lab

**Dan Feldman**, "Time scales of representation of whisker deflection sequences in awake rat S1"

Gallant Lab

**Natalia Bilenko**, "Functional cross-subject mapping predicts brain activity to novel natural movies and speech"

Hsu Lab

**Yu-Ping Chen**, "Identifying symbols of the consumer marketplace from human brain activity"

**Adrianna Jenkins**, "Preferences for improving sequences of outcomes"

**Dan Walsh**, "The cost of shame and the value of exculpation: neural responses to appearance of social norm violation"

Kaufer Lab

**David Covarrubias**, "Astrocytic signaling mediates the effect of stress on hippocampal stem cell development"

**Aaron Friedman**, "Stress shifts hippocampal neural stem cell fate towards oligodendrogenesis"

**Anna Geraghty**, "Stress decreases reproductive success and increases embryo reabsorption via RFamide-related peptide-3"

Kriegsfeld Lab

**Kimberly Jennings**, "Outcome of agonistic encounters is associated with alterations in the gonadotropin-inhibitory hormone (GnIH) neuronal system"

**Kim Russo**, "Circadian control of the preovulatory luteinizing hormone surge for the retreat"

Ngai Lab

**Diya Das**, "Neural and non-neural epithelia utilize similar gene repertoires to execute regeneration"

**Levi Gadye**, "Cellular mechanisms of olfactory stem cell self-renewal"

**Samuel Israel**, "Pheromones, fear, and fish: Uncovering the neural circuitry of alarm behavior in zebrafish"



**Maureen Turner**, "Mediating stemness in the olfactory adult neural stem cell niche"

Olshausen Lab

**Georgios Exarchakis**, "Learning invariant features by harnessing the aperture problem"

**Urs Koster**, "Testing our conceptual understanding of V1 function"

**Mayur Mudigonda**, "Adaptive Compressed Sensing for classification"

Silver/Levi Labs

**Eunice Yang**, "The role of inhibition in human amblyopia"

Theunissen Lab

**Alfonso Bonilla**, "Spectral and temporal processing and comprehension of phonemes in humans"

**Michelle Carney**, "Social learning in Zebra Finches: learning a conditioning task by example"

10:00 PM - 2:00 AM: Talent Show and Social in Ski Hut

## **SUNDAY, OCTOBER 20**

7:30-9:00 AM: Breakfast in Granhall

9:30 AM: Bus back to UC Berkeley campus (for those who signed up)

**Before 11 AM - Check out**