Thank you to the 2019 CNLM Spring Meeting Committee: Professors Ron Frostig, Christine Gall, Sunil Gandhi, and John Guzowski.
Agenda

Thursday, April 25, 2019

8:30am........Light Breakfast
9:00am........Welcome
9:15am........Data Blitz Session 1
10:00am.......Symposium - Frontiers in Bidirectional Memory Modulation
               Moderator: Christine Gall, Ph.D.
12:00pm.......Lunch in CNLM Courtyard
1:00pm........Data Blitz Session 2
2:00pm........Symposium - Novel Approaches in Mapping Plasticity in Neural Circuits
               Moderator: Ron Frostig, Ph.D.
4:00pm........Coffee Break
4:15pm........Keynote Lecture - Timothy Murphy, Ph.D.
5:15pm........Reception

Friday, April 26, 2019

9:00am........Light Breakfast
9:30am........Open Paper Talks
               Moderator: John Guzowski, Ph.D.
10:30am.......Symposium - Information Processing and Computation in Learning and Memory
               Moderator: Bruce McNaughton, Ph.D.
12:30pm.......Lunch in CNLM Courtyard
Symposia

Frontiers in Bidirectional Memory Modulation
Moderator: Christine Gall, Ph.D. • April 25, 10am-12pm

Lulu Chen, Ph.D. (UC Irvine) - Synaptic mechanism underlying cognitive flexibility in autism spectrum disorders and schizophrenia

Steve Ramirez, Ph.D. (Boston University) - Socially induced reinstatement of a contextual fear engram

Nanthia Suthana, Ph.D. (UCLA) - Factors influencing intracranial stimulation related memory modulation of the entorhinal area in humans

Brian Wiltgen, Ph.D. (UC Davis) - Think globally, act locally: targeted hippocampal manipulations lead to retrieval deficits when they produce large-scale changes in activity

Novel Approaches in Mapping Plasticity in Neural Circuits
Moderator: Ron Frostig, Ph.D. • April 25, 2-4pm

Brenda Bloodgood, Ph.D. (UCSD) - Transcriptional regulation of circuit plasticity

Jun-Hyeong Cho, Ph.D. (UC Riverside) - Synaptic encoding of contextual fear memory in the hippocampal-amygdala engram cell pathway

Laura DeNardo, Ph.D. (UCLA) - Prefrontal circuits for remote memory retrieval

Kevin Beier, Ph.D. (UC Irvine) - Unbiased identification of experience-dependent circuit plasticity

Information Processing and Computation in Learning and Memory
Moderator: Bruce McNaughton, Ph.D. • April 26, 10:30am-12:30pm

Bartlett Mel, Ph.D. (USC) - On the dimensionality of dendritic computation (and implications for neural plasticity)

Maksim Bazhenov, Ph.D. (UCSD) - Synaptic dynamics during sleep-related memory consolidation: can it explain continual learning?

Mimi Liljeholm, Ph.D. (UC Irvine) - Agency, choice and strategy selection

Tatyana Sharpee, Ph.D. (Salk Institute) - Geometry of the olfactory space
Open Papers

Jack Lin - Professor of Neurology and Biomedical Engineering, UCI
Multplexing of theta and alpha rhythms in the amygdala-hippocampal circuit supports pattern separation of emotional information

Christie Fowler - Assistant Professor of Neurobiology and Behavior, UCI
The nicotinic receptor modulator, Lynx2, mediates nicotine intake and drug associated memory

Kei Igarashi - Assistant Professor of Anatomy and Neurobiology, UCI
Distinct roles of LEC neuron subtypes in associative learning

Christine Gall - Professor and Chair of Anatomy and Neurobiology, UCI
Sex specific effects of pubertal cannabinoids on synaptic plasticity and memory

Data Blitz

Session 1

Rianne Campbell - Wood Lab, UCI
Role of HDAC3 within the NAc in regulating cocaine-induced plasticity and behaviors

Jalina Graham - Wiltgen Gen, UCD
Stimulation of the ventral hippocampal projection to the basal amygdala and context fear memory retrieval

Ivan Skelin - Lin Lab, UCI
Large scale dynamics surrounding sharp wave ripples in human brain

Aliza Le - Lynch Lab, UCI
Unbiased identification of experience-dependent circuit plasticity

Angeline Eugene - Fowler Lab, UCI
Altered relapse-related behaviors following adolescent exposure to nicotine and a cannabinoid agonist in a mouse model

Zaneta Navratilova - McNaughton Lab, UCI
Global remapping in retrosplenial cortex

Siavash Ahmadi - Leutgeb Lab, UCSD
Dissociating the role of the medial entorhinal cortex and the dentate gyrus in theta-state temporal coding in CA3

Yasmine Serafat - Fowler Lab, UCI
Characterization of Lynx1 in learning and memory function

Heechul Jun - Igarashi Lab, UCI
Impaired spatial representation in hippocampal entorhinal circuit of knock in Alzheimer's model
Session 2

Monika Shpokayte - Ramirez Lab, Boston University
Population and projection specific segregation of fear and reward engrams

Steven Granger - Yassa Lab, UCI
In-vivo microdissection of MTL subfields using ultrahigh-resolution diffusion imaging in the oldest old

Negin Sattari - Mednick Lab, UCI
Sex differences in sleep-related memory consolidation

Zahra M. Aghajan - Suthana Lab, UCLA
Properties of theta rhythm in the human medial temporal lobe during ambulatory virtual navigation

Rachael Hokenson - Baram Lab, UCI
Estrous cycle-dependent effects of multiple acute stresses on memory

Tyler James Wishard - Suthana Lab, UCLA
Declarative memory improvement with perforant path integrity and proximity of deep brain stimulation

Kaitlyn Dorst - Ramirez Lab, Boston University
Driving differential defensive-like behaviors with the same activated fear engram

Pin-Chun Chen - Mednick Lab, UCI
Parasympathetic activity during sleep, but not wake, facilitates working memory improvement: a comparison of young and older adults

Sandra Gattas - Yassa Lab, UCI
Electrophysiological signatures of pattern separation in humans

Carey Y. L. Huh - Gandhi Lab, UCI
Two eyes are worse than one: abnormal thalamic binocular integration in a mouse model for amblyopia
High-throughput electrophysiological, behavioral, or social event triggered imaging of mouse mesoscale brain activity