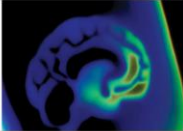


THE	KAVLI	Institute for Brain and Mind	
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<http://kibm.ucsd.edu>

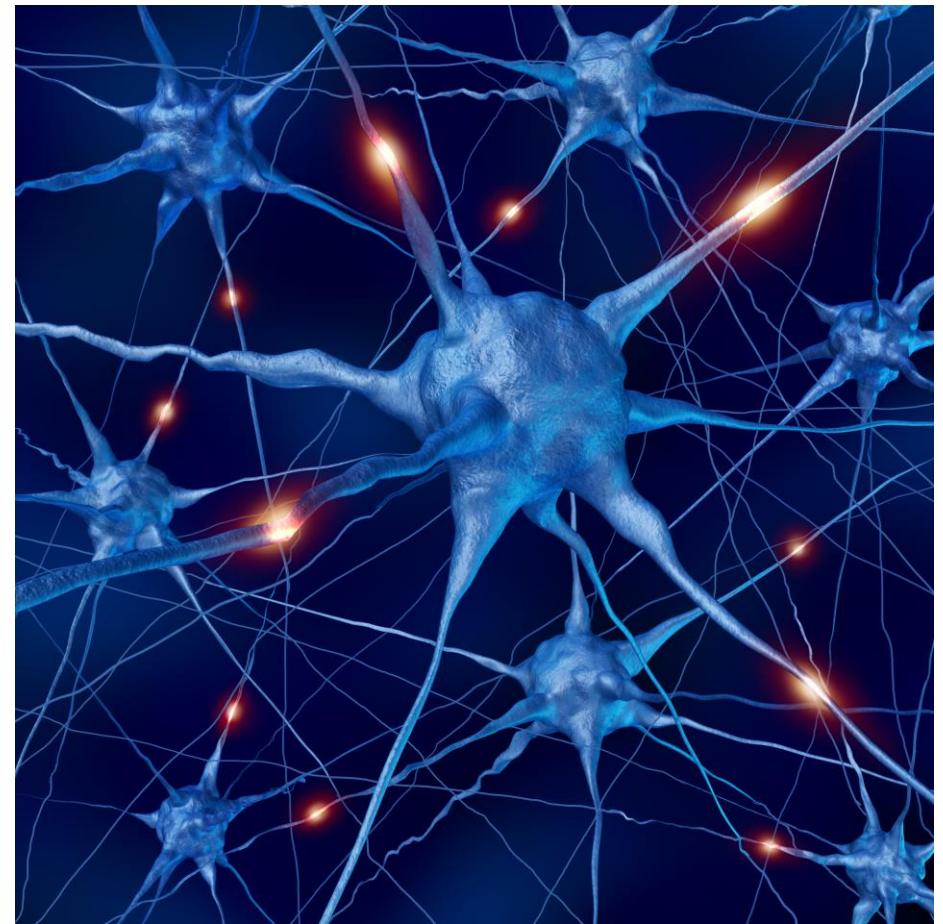


<http://inc.ucsd.edu>



<http://www.nimh.nih.gov/index.shtml>

Event Coordination by: Kristen Michener & Luisa Flores



**The 2017 KIBM Symposium on Innovative Research
&
Institute for Neural Computation
Cognitive Neuroscience Spring Retreat**

**Saturday, May 13, 2017
8:45AM – 5:15PM**

**Sponsored by the Kavli Institute for Brain and Mind
and the National Institute of Mental Health for
Institute for Neural Computation at the
University of California, San Diego**

Twelfth Annual KIBM Symposium on Innovative Research
Chair: Nick Spitzer

8:45am **Nick Spitzer**, UCSD
Overview of KIBM and CBAM

9:00 am **Chuck Stevens**, The Salk Institute, UCSD Kavli
Institute for Brain and Mind
How fly olfactory receptor neurons respond to odor mixtures

9:15 am **Ezequiel Matias Arneodo**, UCSD Biocircuits Institute
Decoding sensory-motor neural signals for vocal communication

9:30 am **Daniela Boassa**, UCSD Center for Research in Biological
Systems, National Center for Microscopy and Imaging
Research
*Structural neuroplasticity of identified microcircuits
investigated by novel EM probe technology*

9:45 am **Dhruv Grover**, UCSD Kavli Institute for Brain and Mind
*Towards brain activity imaging with single cell
resolution in freely behaving fruit flies*

10:00 am **Eric Leonardis**, UCSD Cognitive Science
Rat-Robot Brain-Computer interfaces for dynamic interactions

10:15 am **AM Break**

10:30 am **Tatyana Sharpee**, The Salk Institute
Neural mechanisms of visual object recognition

10:45 am **Sage Aronson**, UCSD Neurosciences Graduate Program
A Neural Circuit Controlling the Motivation to Move

11:00 am **Douglas Nitz**, UCSD Cognitive Science
*The role of oscillations in basal forebrain control of
cortical responsiveness*

11:15 am **Saket Naviakha**, The Salk Institute
*Exploring the role of network pruning during
cellular differentiation*

11:30 am **Matthew Shtrahman**, UCSD Neurosciences
*Using In Vivo Two-Photon Calcium Imaging to Study Temporal
Pattern Separation*

11:45 am **Pai-Kai Huang**, UCSD Cognitive Science
*Assessing the role of behavioral pattern separation
in alcoholism*

12:00 pm **Lunch Break**

1:30 pm **Keynote Speaker: John Allman**, Caltech
Dendritic Spines in Alzheimer's disease

2:30 pm **Break**

Institute for Neural Computation Annual Spring Retreat on Cognitive Neuroscience
Symposium on Neural Circuit Dynamics
Chair: Terrence Sejnowski

2:45pm **Takaki Komiyama**, UCSD Biological Sciences
Imaging neural ensembles during learning

3:15pm **Eric Halgren**, UCSD Radiology
Making a world while we sleep

3:45pm **Maxim Bazhenov**, UCSD Medicine
Is sleep architecture optimal for memory consolidation?

4:15pm **Break**

Training Program in Cognitive Neuroscience Blitz Talks
Chair: Eric Halgren

4:30 pm **Chris Keown**, UCSD Cognitive Science, Predoctoral Fellow
*Single Cell DNA Methylomes Reveal Distinct Neuronal Populations
in Mouse and Human Cortex*

4:35 pm **Mike Avery**, UCSD Neuroscience/Salk Institute, Postdoctoral
Fellow
*Understanding the role of inhibition in attention and perception in
the primate*

4:40 pm **Lyle Muller**, UCSD Institute for Neural Computation/Salk Institute,
Postdoctoral Fellow
*Spatiotemporal structure in cortical activity: from sleep
oscillations to waking perception*

4:45 pm **Chris Gonzalez**, UCSD Neuroscience, Predoctoral Fellow
Characterizing theta oscillations in NREM human sleep

4:50 pm **Joshua Nichols**, UCSD Neuroscience/Salk Institute, Postdoctoral
Fellow
*Cortical Circuit Computation Facilitated by Interneuron Subtype
Connectivity*

4:55 pm **Marvin Thielk**, UCSD Psychology, Predoctoral Fellow
*Shared perceptual spaces for high-dimensional natural acoustic
signals*

5:00 pm **Kari Hanson**, UCSD Anthropology, Predoctoral Fellow
Neural substrates of hypersocial behavior in Williams syndrome

Closing remarks – Terrence Sejnowski