



## 2017-2018 NEUROSCIENCES SEMINAR SERIES

**OCT 3 PAUL KATZ, University of Massachusetts Amherst**  
*Phylogenetic and individual variability of neural circuits underlying swimming behaviors in sea slugs*  
Founder's Lecture in honor of Dr. Theodore Bullock  
*Sponsored by Neuroscience Research and Education Foundation*  
Host: Uri Magaram ([umagaram@ucsd.edu](mailto:umagaram@ucsd.edu))

**OCT 10 ERIKA HOLZBAUR, University of Pennsylvania**  
*Autophagy dynamics in neuronal homeostasis and neurodegeneration*  
Host: Caroline Sferrazza ([csferraz@ucsd.edu](mailto:csferraz@ucsd.edu))

**OCT 17 YANG DAN, UC Berkeley**  
*Neural circuits controlling sleep*  
Host: Megan Kirchgessner ([makirchgessner@ucsd.edu](mailto:makirchgessner@ucsd.edu))

**OCT 24 KONRAD KORDING, University of Pennsylvania**  
*What can machine learning do for neuroscience?*  
Host: Marvin Thielk ([mthielk@ucsd.edu](mailto:mthielk@ucsd.edu))

**NOV 7 SAKET NAVLAKHA, Salk Institute / UC San Diego**  
*Using principles of odor processing to improve Google search*  
Host: Maggie Henderson ([mmhender@ucsd.edu](mailto:mmhender@ucsd.edu))

**NOV 21 CHRISTINA GREMEL, UC San Diego**  
*Drug dependence and disruption to corticostriatal control over action*  
Host: Andre DeSouza ([andesouz@ucsd.edu](mailto:andesouz@ucsd.edu))

**NOV 28 VIVEK JAYARAMAN, Janelia Research Campus**  
*Understanding attractor dynamics and abstract internal representations*  
Host: Jason Keller ([jakeller@ucsd.edu](mailto:jakeller@ucsd.edu))

**DEC 5 PADMINI RANGAMANI, UC San Diego**  
*Mechanochemical modeling of dendritic spines*  
Host: Uri Magaram ([umagaram@ucsd.edu](mailto:umagaram@ucsd.edu))

**DEC 12 HILLEL ADESNIK, UC Berkeley**  
*Optically probing the neural basis of perception*  
Host: Ethan McBride ([egmcbri@ucsd.edu](mailto:egmcbri@ucsd.edu))

**JAN 9 SCOTT MAKEIG, UC San Diego**  
*Imaging human electromagnetic brain dynamics*  
Founder's Lecture in honor of Dr. Robert Galambos  
*Sponsored by Neuroscience Research and Education Foundation*  
Host: Stephanie Nelli ([snelli@ucsd.edu](mailto:snelli@ucsd.edu))

**JAN 16 NA JI, UC Berkeley**  
*Probing neural circuits with shaped light*  
Host: Brad Theilman ([btheilma@ucsd.edu](mailto:btheilma@ucsd.edu))

**JAN 23 HONGKUI ZENG, Allen Institute for Brain Science**  
*Genetic approaches to brain circuit mapping and cell type characterization*  
Host: Norah Koblesky ([nkoblesky@ucsd.edu](mailto:nkoblesky@ucsd.edu))

**JAN 30 CRIS NIELL, University of Oregon**  
*Neural circuits for vision in action*  
Host: Landon Klein ([lmklein@ucsd.edu](mailto:lmklein@ucsd.edu))

**FEB 6 BERNARDO SABATINI, Harvard Medical School**  
*Synapses and circuits of the basal ganglia*  
Host: Kyle Fischer ([kbfische@ucsd.edu](mailto:kbfische@ucsd.edu))

**FEB 13 SLIMAN BENSMAIA, University of Chicago**  
*Biological and bionic hands: Natural neural coding and artificial perception*  
Host: Tom Gillespie ([tgillesp@ucsd.edu](mailto:tgillesp@ucsd.edu))

**FEB 20 SPENCER SMITH, University of North Carolina**  
*Next generation multiphoton imaging reveals visual cortical areas acting in concert*  
Host: Sam Asinof ([sasinof@ucsd.edu](mailto:sasinof@ucsd.edu))

**FEB 27 NENAD SESTAN, Yale University**  
*Development and evolution of neural circuits of the cerebral cortex*  
Host: Xi Jiang ([x4jiang@ucsd.edu](mailto:x4jiang@ucsd.edu))

**MAR 13 MICHAEL SOFRONIEW, UC Los Angeles**  
*Astrocyte roles in CNS repair and regeneration*  
Host: Kelsey Ladt ([kladt@ucsd.edu](mailto:kladt@ucsd.edu))

**MAR 20 SABINE KASTNER, Princeton University**  
*Neural dynamics of the primate attention network*  
Host: Aaron Sampson ([asampson@ucsd.edu](mailto:asampson@ucsd.edu))

**APR 3 NANCY KANWISHER, M.I.T.**  
*fMRI investigations of the human brain as a window into the architecture of the human mind*  
Founder's Lecture in honor of Dr. Robert Livingston  
*Sponsored by Neuroscience Research and Education Foundation*  
Host: Vy Vo ([vav001@ucsd.edu](mailto:vav001@ucsd.edu))

**APR 10 ANDRÉ FENTON, New York University**  
*The dynamic structure of cognition: If space was time*  
Host: Geoffrey Diehl ([gdiehl@ucsd.edu](mailto:gdiehl@ucsd.edu))

**APR 17 GENEVIEVE KONOPKA, UT Southwestern**  
*Molecular networks of cognition*  
Host: Peter Osseward ([possewar@ucsd.edu](mailto:possewar@ucsd.edu))

**APR 24 SUSUMU TONEGAWA, M.I.T. / RIKEN**  
*Mechanism of episodic memories*  
Host: Stephen Johnston ([stjonst@ucsd.edu](mailto:stjonst@ucsd.edu))

**MAY 1 JEFFREY MAGEE, Baylor College of Medicine**  
*A fundamental microcircuit computation in hippocampus and neocortex*  
Host: Anja Payne ([ahiggins@ucsd.edu](mailto:ahiggins@ucsd.edu))

**MAY 15 RUDOLPH TANZI, Harvard Medical School**  
*The growing role of innate immune genes in Alzheimer's Disease*  
Host: Marc Marino ([mjmarino@ucsd.edu](mailto:mjmarino@ucsd.edu))

**MAY 22 MICHAEL BRUCHAS, Washington University**  
*Dissecting neuromodulatory circuits and signaling in affective behavior*  
Host: Margot Wohl ([mwohl@ucsd.edu](mailto:mwohl@ucsd.edu))

**MAY 29 OLIVER HOBERT, Columbia University**  
*Organizational principles of nervous system development in C.elegans*  
Host: Javier How ([jhow@ucsd.edu](mailto:jhow@ucsd.edu))

**JUN 5 ANATOL KREITZER, UC San Francisco**  
*Function of basal ganglia circuitry in movement and action selection*  
Host: Dan Knowland ([dknowlan@ucsd.edu](mailto:dknowlan@ucsd.edu))

### Seminar Series Committee:

Kelsey Ladt, Sam Asinof, Maggie Henderson  
Geoff Diehl, Javier How, Stephen Johnston,  
Landon Klein, Catie Profaci, Alex Smirnov

### Faculty Advisors:

Joseph Gleeson MD, Shelley Halpain PhD,  
Nicola Allen PhD, Jill Leutgeb PhD

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