

## BRAIN CIRCUIT

Monthly brain-related updates for the UCI community

[UCI Brain](#) sends out a monthly digest of upcoming brain-related events hosted by units from across campus. Check out the complete [event calendar](#) and [submit your event](#).

### Upcoming Scientific Events

#### [Shreesh P. Mysore, Ph.D.](#)

[Department of Cognitive Sciences](#)

**November 6, 2019**

**12:00 pm - 1:00 pm**

Despite the rich literature on the consequences of selective attention to behavior and to neural responses, as well as a wealth of models of competitive selection, little is known about the circuit mechanisms by which the brain actually selects the highest priority stimulus as the next target of spatial attention.

Following a first principles approach that breaks down selection into computational primitives, and with experiments in the barn owl midbrain selection network, Dr. Mysore and team recently discovered neural circuit mechanisms for categorical (robust-to-noise) selection as well as location-invariant selection (selection at all possible pairs of locations). [Learn More](#)



#### [Davide Dulcis, Ph.D.](#)

[Irvine Center for Addiction Neuroscience](#)

**November 7, 2019**

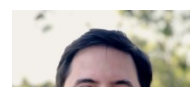
**11:00 am - 12:00 pm**

Dr. Dulcis is an Associate Professor of Psychiatry at UCSD. He is a faculty member of the Neurosciences graduate program and the Center for Circadian Biology at UCSD. He received his B.S. from University of Cagliari (Italy) double majoring in Physiology and Biology. While earning his Ph.D. from University of Arizona in Neuroscience, he illustrated the role of neurotransmitters in cardiac function of neurogenic invertebrate hearts. During his post-doctoral training in Neurobiology at UCSD, he discovered that neurotransmitters can be respecified by sensory stimuli, with matching respecification of postsynaptic receptor expression and associated changes in behavior. [Learn More](#)



#### [Robert Hunt, Ph.D.](#)

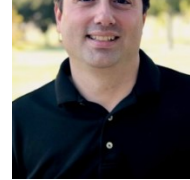
[Center for the Neurobiology of Learning and Memory](#)



**November 12, 2019**

**11:00 am - 12:00 pm**

### **Interneurons and the control of memory precision**



Inhibitory interneurons govern the sparse activation of principal cells that permits appropriate behaviors, and they are activated during specific memory processes. Dr. Hunt's recent work has demonstrated important roles for interneurons in disorders of brain development and injury. These studies have motivated ongoing efforts to understand how these cells operate at the synaptic, circuit and behavioral levels and in designing new technologies targeting specific populations of interneurons for therapy. Dr. Hunt will discuss recent efforts examining the role of interneurons in memory disorders and in designing cell-based therapies that enable precise manipulation of inhibitory circuits in the brain.

[Learn More](#)

---

### [Francesco Battaglia, Ph.D.](#)

[Department of Neurobiology and Behavior](#)

**November 14, 2019**

**11:00 am - 12:00 pm**

### ***Cortico-hippocampal interactions for memory***

Francesco Battaglia, PhD, Donders Institute for Brain, Cognition and Behaviour, Radboud University Nijmegen



Memory representations are evolving objects through the lifetime of a memory. The recording of large groups of neurons from behaving animals has been instrumental for investigating brain network dynamics supporting memory encoding consolidation and retrieval. Classically, upon memory encoding during active behavior, hippocampal activity is dominated by theta oscillations. During inactivity, hippocampal neurons burst synchronously, constituting sharp waves, which can propagate to other structures, theoretically supporting memory consolidation. The PFC is one prominent target. This 'two-stage' model has been updated by new data from high-density electrophysiological recordings in animals that shed light on how information is encoded and exchanged between hippocampus and PFC. [Learn More](#)

---

### [Richard G. Ellenbogen, MD, FACS](#)

[Department of Neurological Surgery](#)

**November 15, 2019**

**5:00 pm - 7:30 pm**

### **The 3rd Annual John A. Kusske Lecture Series**

Richard G. Ellenbogen, MD, FACS

*The Myth of Equipose*

Theodore S. Roberts Professor

Chair and Residency Program Director Department of Neurological Surgery

University of Washington



RSVP to Cindy Wang at [ucineurosurgery@hs.uci.edu](mailto:ucineurosurgery@hs.uci.edu) or 714-456-3402. Seating is limited. [Learn More](#)

---

## [The 9th Annual Arnold Starr Lecture and Exhibition](#)

[Department of Neurology](#)

**November 20, 2019**

**5:00 pm - 8:30 pm**

*Mechanisms of Auditory Neuropathy* Guest Lecture by Maoli Duan, MD, PhD  
Karolinska Institute, Sweden

Lecture (6:00 – 7:00 p.m.) will be live-streamed and has been approved for AMA PRA Category 1 Credit  
Artists & Friends Dinner (7:00 – 8:30 p.m.) \$100 single; \$150 couple [Learn More](#)



---

## [UCI Brain Initiative Launch Event](#)

[UCI Brain Initiative](#)

**November 21, 2019**

**8:00 am - 8:00 pm**

UCI faculty, staff, and students are invited to join UCI Brain for a day of discussions about team science, presentations by groups of UCI faculty and students, along with a special keynote presentation by Dr. Ralph Greenspan, associate director of the Kavli Institute for the Brain and Mind.

During this event, UCI Brain will be sharing two new opportunities for UCI faculty:

- Pilot Grants of up to \$25,000
- Dimensions Team Science Development Tool

In the evening, the community will be invited to a fireside chat with UCI's most distinguished neuroscience faculty. [Learn More](#)



---

## [Michael Halassa, M.D., Ph.D.](#)

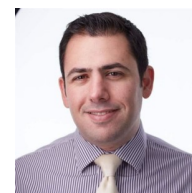
[UCI Medical Scientist Training Program](#)

**November 21, 2019**

**4:00 pm - 5:00 pm**

### ***Networks Underlying Cognitive Control & Flexibility***

Michael Halassa is a MIT neuroscientist who aims to understand the basic circuit mechanisms of how information is routed in the brain and how disruptions in these circuits can lead to neurological and psychiatric disorders. As a practicing psychiatrist he aims to develop novel approaches to diagnosing and treating these illnesses guided by insights both from the lab and clinic. [Learn More](#)



---

## [2019 Parkinson's Symposium](#)

[Department of Neurology](#)

**November 23, 2019**

**8:00 am - 1:00 pm**



**Treatment Options in Parkinson's Disease: From Behavior to Movement**

Join UCI Health for a special symposium about Parkinson's disease, including a discussion on behavioral symptoms, current and recent developments in medical and surgical therapies for Parkinson's Disease. Visit [ucihealth.org/parkinsonsevent](http://ucihealth.org/parkinsonsevent) to register. [Learn More](#)

## New Positions

The UCI Brain community is expanding! Below are just a few of the many open positions at UCI. [Visit our website](#) to view all positions and to submit your open position for inclusion on our website.

### Faculty Positions:

[Neuroscience Faculty Position](#)

Department of Anatomy & Neurobiology

Final Date: June 30th, 2020

[Health Sciences Assistant/Associate/Full Clinical Professor](#)

Department of Neurosurgery

Final Date: June 30th, 2020

### Postdoctoral Fellows / Project Scientists Positions:

[Postdoctoral Scholar – Patterson Laboratory](#)

Department of Psychiatry & Human Behavior

Final Date: June 30th, 2020

[Postdoctoral Scholar- Chrastil Lab](#)

Department of Neurobiology & Behavior

Final Date: June 24th, 2020

### Research Staff Positions:

[Preclinical and Translational Imaging Center MRI Technician](#)

Department of Pediatrics

Open Date

[Specialist Series](#)

Department of Neurology

Final Date: June 30th, 2020

[Browse All Positions](#)

