

# INTERACTIVE BOOTHS



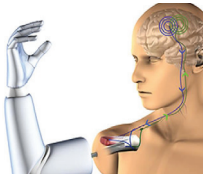
## Neurons Under a Microscope

Marvel at the intricate morphology of nerve cells from different brain regions and learn how it changes to accommodate new long-term memories.



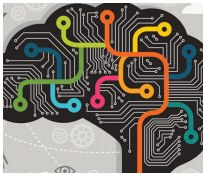
## Brain Zoo

See and touch real brains from a variety of species!



## Neuroplasticity and Prosthetics

Witness your brain changing! Control a mechanical claw with your brain and take away your partner's free will!



## NeuroEngineering

Learn about the next frontier of biomedical engineering and our attempts to repair, restore and enhance function in the nervous system.



## Information and Poster Contest

Vote for your favorite research poster, grab helpful information and sign up to receive news and events from the UC Davis Center for Neuroscience.



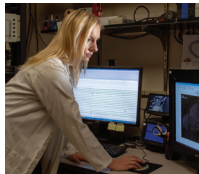
## Brain Trivia

Spin the wheel! There is a prize for you whether you get the answer right or wrong!



## Your Genes and Why Neurons Care

Purify real DNA and learn about genes and why they are important for typical brain function and in diseases.



## A Day in the Life of a Neuroscience Graduate Student

Considering a career in biomedical research? Meet graduate students, see lab-life video clips and learn more about working in a UC Davis neuroscience lab.



## California Primate Center

Meet scientists and learn how non-human primate research can improve health and advance science for significant human medical conditions throughout the lifespan.

Special thanks to NeuroFest Co-Chairs, Drs. Diasynou Fioravant and Karen Zito, our volunteers, and contributions from the Society for Neuroscience, UC Davis Neuroscience Graduate Group and the Dana Foundation.

Center for Neuroscience

# NEUROFEST

A Brain Awareness Week Public Seminars and Interactive Experience



## Mind in the Making: Executive Brain Functions in Health, Aging and Disease

Saturday, March 9, 2019

12:30 PM - 5:00 PM

## ABOUT THE CENTER FOR NEUROSCIENCE

The Center for Neuroscience is the interdisciplinary hub for neuroscience research and education at UC Davis. Our mission is to reveal how the brain works and to leverage these discoveries to promote health, advance treatments and cures for neurological and psychiatric disorders, and transform next generation technologies. Learn more at [neuroscience.ucdavis.edu](http://neuroscience.ucdavis.edu).

**UC DAVIS**  
CENTER FOR NEUROSCIENCE

# PROGRAM



## 12:30 PM - 1:45 PM Doors Open

### Explore interactive activities and vote for your favorite poster!

Meet Center for Neuroscience faculty and trainees and enjoy brain teasers throughout our interactive displays. Learn about current research and vote for your favorite poster!



## 1:45 PM Director's Welcome

**Kimberley McAllister, Ph.D.** is the Center for Neuroscience Director and a Professor of Neurobiology, Physiology and Behavior, and Neurology. Her research focuses on understanding how circuits in the developing brain are formed and sculpted by experience. Dr. McAllister also studies the role for immune molecules in brain development and in psychiatric disorders.



## 2:00 PM Attention and Working Memory in Health and Disease

**Steven Luck, Ph.D.**, Distinguished Professor of Psychology and Center for Mind and Brain Director, focuses his research on the cognitive and neural mechanisms of attention and memory in typical adults and on neurocognitive dysfunction in people with psychiatric and neurological disorders. A leading expert on the use of event-related brain potentials to measure neural activity underlying cognition, Dr. Luck conducts workshops on this technique and has provided training to over 1500 scientists around the world.



## 2:30 PM How the Brain Makes Decisions and its Importance for Human Health

**Tim Hanks, Ph.D.**, Assistant Professor in the Center for Neuroscience and Department of Neurology, started his independent lab at UC Davis in 2015. Throughout his career, Dr. Hanks' work has focused on elucidating brain mechanisms underlying decision making. The long term goal of his research is to pave the way for the development of principled treatments for disorders of higher brain function that are targeted to the responsible neural circuits.



## 3:05 PM Break

### Don't forget to vote for your favorite poster!

Interactive booths are available for more fun for all ages! Last chance to visit the research posters and vote for your favorite!



## 3:30 PM This is your Brain on Drugs

**Jennifer Whistler, Ph.D.** is Associate Director of the Center for Neuroscience and Professor of Physiology and Membrane Biology. She is interested in understanding drugs of abuse and the co-morbidities of anxiety, depression and altered decision making. Dr. Whistler uses this discovery to inform the development of therapeutic interventions to mitigate drug tolerance and addiction. Her work spans many disciplines, including cell biology, pharmacology, biochemistry, genetics, electrophysiology and complex animal behavior.



## 4:00 PM The Many Faces of Dementia and Why They Matter

**Brittany Dugger, Ph.D.**, Assistant Professor in Pathology and Laboratory Medicine, joined UC Davis in 2018. In addition to running her own laboratory, she supports the UC Davis Alzheimer's Disease Center as a neuropathology core leader. Her lab focuses on understanding heterogeneity within neurodegenerative diseases and the interaction of peripheral changes to aging and neurodegenerative diseases.



## 4:30 PM Poster Awards and Closing Remarks

**Diasynou Fioravante, Ph.D.** is Assistant Professor of Neurobiology, Physiology and Behavior and Co-chair of the Center for Neuroscience's NeuroFest activities. Dr. Fioravante studies the fundamental mechanisms and functional implications of plasticity in neural microcircuits during learning and memory. Her current research examines the role of the cerebellum in the regulation of emotion, which has implications for anxiety and post-traumatic stress disorder.



## NEUROFEST 5th Anniversary

In honor of NeuroFest's 5th Anniversary, the Center for Neuroscience is launching a campaign to raise \$75,000 to permanently endow the **CNS NeuroFest and Community Outreach Program**.

ANNIVERSARY

Since 2014, NeuroFest has offered community members of all ages a fun-filled day of public seminars and interactive experiences to celebrate brain science. Faculty and graduate students also bring neuroscience to the classroom, making presentations and providing hands-on activities to K-12 students throughout the Sacramento and Davis areas, as part of our outreach program. Gifts to the NeuroFest and Community Outreach Program Endowment will provide equipment, materials and resources for meaningful and informative learning experiences to the community in perpetuity. [Learn more or to make a gift in celebration of NeuroFest's 5th Anniversary, visit \[neuroscience.ucdavis.edu/giving\]\(https://neuroscience.ucdavis.edu/giving\)](https://neuroscience.ucdavis.edu/giving). Thank you for your support!