

FY 2021 Impact Report

UC Davis Center for Neuroscience

Where **foundational discoveries** reveal the remarkable complexity of the brain and catalyze new treatments and technologies



SELECT RESEARCH DISCOVERIES

- A new connection in the brain that regulates PTSD-relevant extinction of learned fear
- A new role for cerebellum in regulating social and emotional behaviors in health and in autism
- First evidence for a role for a classical immune molecule in mediating Alzheimer's disease-related synapse loss
- A signaling pathway that reduces the side effects of opioid tolerance without exacerbating respiratory depression
- A novel biomarker to predict susceptibility of offspring to increased risk for psychiatric illness after maternal infection, supported by an NIMH \$15 million Conte Center grant renewal

NEW FACULTY HIRES

Xiaomo Chen, Ph.D.

Assistant Professor of Neurobiology, Physiology & Behavior

Christina Kim, Ph.D.

Assistant Professor of Neurology

FACULTY PROMOTIONS

Jochen Ditterich, Ph.D.Full Professor

John Gray, M.D., Ph.D.
Associate Professor with Tenure

Tim Hanks, Ph.D.

Associate Professor with Tenure

FACULTY AWARDS

Rishidev Chaudhuri, Ph.D. Sloan Research Fellowship

Tim Hanks, Ph.D.

UC Davis Outstanding Graduate Mentor in Neuroscience Award

Charan Ranganath, Ph.D.

Fellow of the Society for Experimental Psychologists & Fellow of the Psychonomic Society

CNS BY THE NUMBERS

Faculty and Staff

- 24 In-House Faculty
- 85 Affiliated Faculty
- 46 Lab Staff
- 10 Administrative Staff

Students and Trainees

- 13 Project Scientists
- 20 Postdoctoral Scholars
- 53 Graduate Students from11 Graduate Groups
- 34 Undergraduate Student Researchers

Neuroscience Graduate Group

- 60 Graduate Students
- 84 Faculty



63 Grants Submitted



41 New Grants Funded



8 Grants Renewed

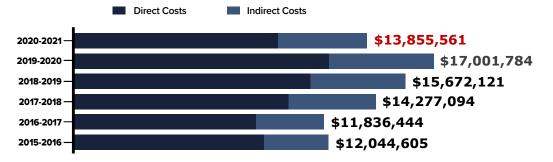


11 Pending Awards



88 Published Papers

GRANT EXPENDITURES

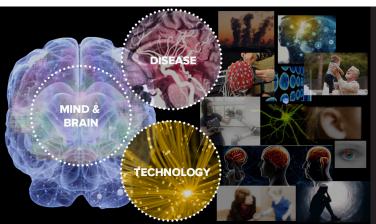






TRAINING EXCELLENCE

- Virtual Neuroscience Initiative to Enhance Diversity (NIED) program provided 34
 undergraduates from underrepresented backgrounds with skill-building workshops,
 mini lectures, guidance on graduate school admissions, and peer mentorship to help
 them pursue an advanced degree in neuroscience
- Specialized training in virtual presentations enhanced communication skills for graduate students, including conference talks and NeuroBlitz at this year's NeuroFest



UC Davis Neuroscience Consortium

A comprehensive and vibrant community of scientists, engineers, and clinicians dedicated to solving humanity's grandest challenges

COMMUNITY OUTREACH

- Led the formation and launch of the UC Davis Neuroscience Consortium, uniting
 more than 300 diverse neuroscience researchers at UC Davis from 12 centers and
 41 departments across 5 colleges and schools to leverage the strength, breadth, and
 depth of one of the largest neuroscience communities in the world
- NeuroFest 2021: Healthy Brain, Healthy Mind: Progress in Mental Health Research went virtual and engaged nearly 400 community members in neuroscience research and education for all ages
- UC Davis launched the public phase of the "Expect Greater: From UC Davis. For the World" campaign to raise \$2 billion for research, education, and programs across the institution. Since July 2016, the Center for Neuroscience has raised \$2,898,779 from 152 individuals and \$4,833,996 from 16 foundations, achieving 77% of our \$10 million campaign goal

TRAINEE ADVANCEMENTS

- 13 new PhDs awarded
- 9 Postdocs with new jobs in industry or academia

TRAVEL AWARDS

Lindsay Cameron

Barbara Chapman Neuroscience Award

Stela Petkova

Ling-Lie Chau Graduate Student Award for Brain Research

FY 2021 PHILANTHROPY



\$336,645 Gifts from 145 Donors



28 CNS Director's Circle Members

To learn more or to support the Center for Neuroscience, visit neuroscience.ucdavis.edu or contact Jennifer Scott at (530) 753-5304 or jescott@ucdavis.edu.

