



Spring/ Summer 2022

Dear Colleagues and Friends,

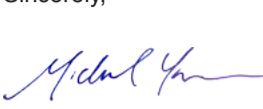
For many universities, the summer is marked by empty halls as thousands of undergraduate students return home and faculty retreat to their offices to catch up on writing papers and grants. Summers are different at the CNLM, where the end of the academic year signals the beginning of summer programs that introduce students to neuroscience and immerse them in the wonders of the brain. This summer was extra special as the return to in-person activities sparked a sense of community that we had not felt since before the COVID-19 pandemic. I invite you to learn more about the 2022 Summer Institute in Neuroscience which was hosted by the CNLM and brought 24 young scholars from across the country to conduct research, participate in professional development workshops, and to create lifelong friends and mentors.

This year, we are excited to host LEARNMEM2023, an international conference to take place in Huntington Beach with more than 1,200 attendees from April 26-30, 2023. I encourage those in our scientific community to put [submit their research](#) for inclusion in the conference. The deadline for submissions is September 30th.

Catch up on more learning and memory updates by browsing the topics below.

- [Research Updates](#)
- [News and Highlights](#)
- [Upcoming Events](#)
- [We're Social!](#)

Sincerely,



Michael A. Yassa Ph.D.  
Professor and James L. McGaugh Endowed Chair  
Director, Center for the Neurobiology of Learning and Memory

### Research Updates



**Circadian rhythm disruption found to be common among mental health disorders. Featuring CNLM Fellows, Pierre Bault and Amir Alachkar.**

Anxiety, autism, schizophrenia and Tourette syndrome each have their own distinguishing characteristics, but one factor bridging these and most other mental disorders is circadian rhythm disruption, according to a team of neuroscience, pharmacological sciences and computer science researchers at the University of California, Irvine.

[Read More](#)



**Research involving CNLM Fellow Bryce Mander reveals how brain inflammation may link Alzheimer's risk, sleep disturbance**

A multi-site research team from the University of California, Irvine, the University of Wisconsin-Madison and Wake Forest University has discovered that brain inflammation may link Alzheimer's disease risk with sleep disturbance, which may aid early detection and prevention efforts by identifying novel treatment targets at preclinical stages.

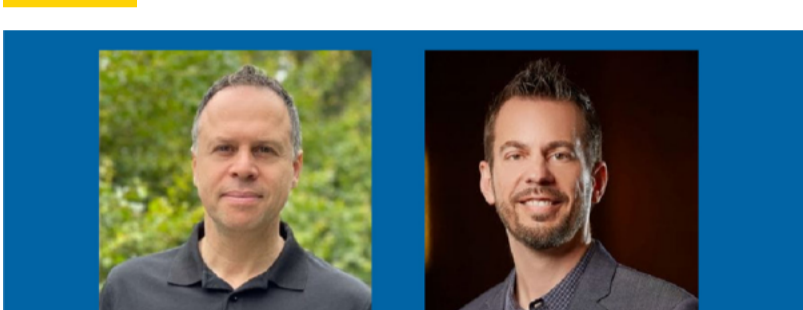
[Read More](#)



**UCI research finds parents' unpredictable behavior may impair optimal brain circuit formation. Featuring CNLM Fellow, Talia Z. Baram**

Researchers at the University of California, Irvine are conducting pioneering research into the concept that unpredictable parental behaviors, together with unpredictable environment, such as lack of routines and frequent disasters, disrupt optimal emotional brain circuit development in children, increasing their vulnerability to mental illness and substance abuse.

[Read More](#)



**UCI team uncovers key brain mechanisms for organizing memories in time**

In a scientific first, researchers at the University of California, Irvine have discovered fundamental mechanisms by which the hippocampus region of the brain organizes memories into sequences and how this can be used to plan future behavior. The finding may be a critical early step toward understanding memory failures in cognitive disorders such as Alzheimer's disease and other forms of dementia.

[Read More](#)

### News and Highlights



**CNLM Fellow, Katherine Thompson-Peer, One of Seven UCI Faculty Members Named Helms Fellows for 2022-23**

Sep 21, 2022



**UCI Summer Institute in Neuroscience trains tomorrow's leaders in neuroscience**

Sep 20, 2022



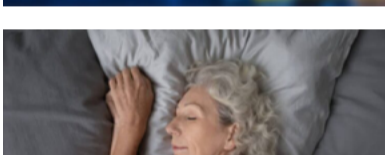
**Congratulations to CNLM High Risk, High Reward Pilot Award(s)!**

Aug 29, 2022



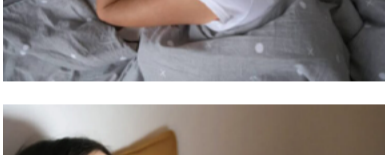
**Trouble sleeping? It could mean higher Alzheimer's risk. Featuring CNLM Fellow, Bryce Mander**

Aug 16, 2022



**Why the Human Mind Is 'Not Designed' to Stay Awake Until Midnight, featuring CNLM Fellow, Sara Mednick**

Aug 9, 2022



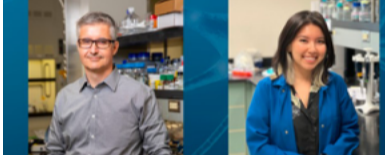
**Carlene Chion and Adviser Dr. Marco Wood Awarded Prestigious Gilliam Fellowship**

Aug 1, 2022



**Research reveals how brain inflammation may link Alzheimer's risk, sleep disturbance**

Jul 13, 2022



**Solving algorithm 'amnesia' reveals clues to how we learn**

Jul 5, 2022



**How exercise may help prevent Alzheimer's**

Jun 22, 2022



**How traumatic brain injury changes the brain**

Jun 22, 2022



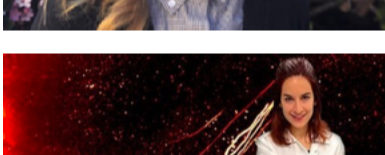
**Predictable and consistent parental behavior is key for optimal child brain development**

Jun 22, 2022



**Who benefits from brain training, and why?**

Jun 21, 2022



**Warning! Nicotine poses special risks to teens. Featuring CNLM Fellow, Frances Leslie**

May 19, 2022



**What is eidetic memory: the poor man's photographic memory. Featuring CNLM Founder, James McGaugh**

Apr 21, 2022



**Feeling forgetful? How stress may impact memory. Featuring CNLM Fellow, Sara Mednick**

Apr 12, 2022



**The Role of the Downstate for Sleep, Restoration, and Longevity Podcast featuring CNLM Fellow, Sara Mednick**

Mar 17, 2022



**Frequent and Fearsome. But Can Dementia Be Avoided? Featuring CNLM Fellow, Claudia Kawas**

Mar 17, 2022



**CBD for schizophrenia, featuring CNLM Fellow, Daniele Piomelli**

Mar 16, 2022



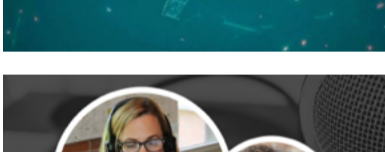
**Inside the brain: The role of neuropathology in Alzheimer's disease research, featuring CNLM Fellow, Claudia Kawas**

Mar 14, 2022



**2022 Irvine Brain Bee Inspires Teens to Explore the Brain**

Mar 11, 2022



**UCI researchers develop hybrid human-machine framework for building smarter AI, featuring CNLM Fellow, Mark Steyvers**

Mar 8, 2022



**Determining if Dementia is Uniquely Human, featuring CNLM Fellow, Elizabeth Head**

Feb 22, 2022



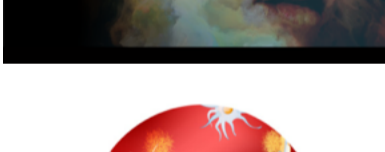
**How the brain organizes memories in time, featuring CNLM Fellow, Norbert Fortin**

Feb 18, 2022



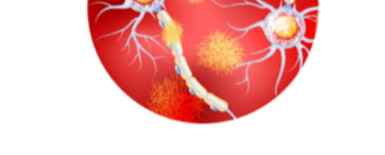
**Memory encoding found to differ between the sexes, before and after puberty, featuring CNLM Fellow, Christine Gall**

Feb 18, 2022



**UCI poised to advance depression research following \$55-million gift to establish center, featuring CNLM Fellows, Talia Z. Baram and Michael A. Yassa**

Feb 16, 2022



**What Can Worms Do for Our Brains?**

Feb 11, 2022

### Upcoming Event

April 26 - 30, 2023  
2023 International Conference on Learning and Memory LEARNMEM2023  
The Conference will be held in celebration of the 40th Anniversary of the Center for the Neurobiology of Learning and Memory (CNLM) in Huntington Beach, CA. We are expecting between 1200 and 1500 scholars from all around the world.  
LEARNMEM2023 will offer researchers an opportunity to engage with learning and memory scholars from around the world.

[Learn More](#)

### We're Social!



#### Featured Tweet

**Michael Yassa** @malyassa

We're BACK! Join us for #LEARNMEM2023 in Huntington Beach this April and celebrate the 40th annual of [NeuroTimes](#). Abstract submission OPEN. Confirmed speakers below. TONS planned for EC scientists. Ask me & @marcellyassa anything. Mark your calendars & RT! [learnmem2023.org](#)

LEARNMEM2023 Confirmed Primary and Keynote Speakers

8:45 AM · Aug 29, 2022 · Twitter

