Memory Matters

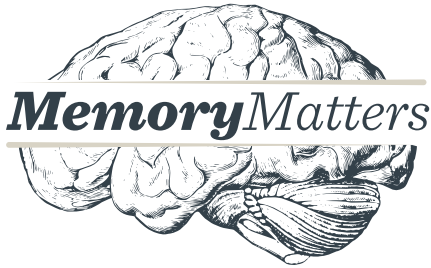**Monday April 10th, 2023 • The Etter-Harbin Alumni Center • 6:00pm**

Sponsored in part by:
The Dana Foundation
The Center for Learning & Memory Endowed Excellence Fund

The University of Texas at Austin
Center for Learning and Memory

*Memory*Matters

A focus on healthy aging

6:00–7:00pm   **Activity and Demonstration Booths Open**

7:00–8:30pm   **Welcome and Introductory Remarks**
> Dr. Laura Colgin
> *Director of The Center for Learning & Memory*

Panel discussion and Question & Answer

Center for Learning & Memory Faculty Panel
> Dr. Audrey Brumback
> Dr. Michael Drew
> Dr. David Paydarfar

Discussion moderator
> Laura Rice

Activity & Demonstration Booths

Reading Minds: Deciphering Brain Waves
> Colgin Laboratory

How Much do You Know About the Brain?
> Drew Laboratory

Measuring Your Emotional Arousal
> Dunsmoor Laboratory

Synapse Structure Matters for Memory
> Harris Laboratory

Solving Neurological Mysteries with Worms
> Pierce Laboratory

Brain Powered Muscles!
> Neuroscience Graduate Students

Finding Sounds with Your Brain
> Golding Laboratory

Visual Adaptation in your Brain
> Priebe Laboratory

How much can you remember?
> Preston Laboratory

Meet the Faculty Panel

Dr. Audrey Brumback, Assistant Professor of Neurology
Dr. Brumback obtained her MD and PhD degrees at the University of Colorado. Dr. Brumback is interested in understanding how abnormal neuronal electrophysiology contributes to the cognitive symptoms of neurodevelopmental disorders such as autism. She uses in vivo and ex vivo electrophysiology combined with tools for manipulating neuronal activity such as optogenetics to investigate how the activity of specific populations of neurons contributes to behavior.

Dr. Michael Drew, Associate Professor of Neuroscience
Dr. Drew received his PhD in Psychology from Columbia University. Dr. Drew is interested in understanding the functional significance of adult hippocampal neurogenesis, which is the birth of new neurons in the hippocampus of the adult brain. He uses inducible genetic manipulations and behavioral testing in mice to reveal underlying cognitive and emotional processes that are modulated by neurogenesis.

Dr. David Paydarfar, Chair, Department of Neurology
Dr. Paydarfar received his MD from The University of North Carolina at Chapel Hill. Dr. Paydarfar practices general neurology and his basic research program seeks to understand mechanisms underlying disease states associated with abnormal behavior of neural oscillators such as apnea, circadian dysrhythmias and epilepsy, as well as the coordination of pacemakers with other physiological and behavioral functions.

Panel Discussion moderator
Laura Rice
Laura Rice is the Managing Producer of the Texas Standard, the nationally renowned daily news show of Texas. Laura also produces special projects that have included the National Edward R. Murrow Award-winning documentary "Out Of The Blue: 50 Years After The UT Tower Shooting" and "The Long Haul: Texas And The Pandemic." Before joining the Texas Standard, Laura worked in the local KUT Newsroom as the station's Morning Edition producer. Laura found radio after a start in television news. She worked as an anchor, reporter, and producer at stations in Austin, Amarillo, and Toledo, Ohio. She graduated from journalism school at the University of Missouri-Columbia and earned an MA from the University of Texas at Austin's department of Radio-Television-Film.

Who We Are:

The Center for Learning and Memory (CLM) is a research center of excellence that utilizes the collective expertise of premier neuroscientists from diverse disciplines to unravel the mechanisms that govern learning and memory and cognitive disorders. CLM promotes the exchange of ideas and expertise across different levels of analysis (from molecules to human behavior) while specifically focusing on understanding how we learn and remember things. CLM is a research center where progress towards understanding learning and memory is limited only by the imagination and creativity of our faculty. We believe that the research activities supported by the CLM build a foundation of knowledge about the brain that is essential for understanding brain disease and cognitive disorders.

Our Mission:

• To extend scientific knowledge of the mechanisms governing learning and memory and improve the human condition by contributing toward the foundation of knowledge that is essential for understanding disorders of learning and memory including brain injury, neurodegenerative disease, aging and psychiatric disorders

• To foster collaborative research programs that integrate the diverse and complementary fields of study relevant to learning and memory

• To provide graduate students and post-doctoral fellows with unparalleled scientific training and prepare them to be future pioneers in the field of learning and memory

If you would like to support Memory Matters or the Center for Learning and Memory research programs please visit our website, www.clm.utexas.edu to learn more.