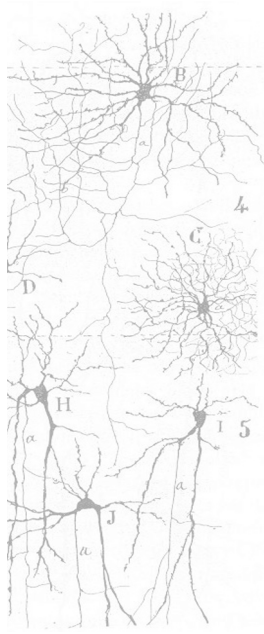


CUNY Neuroscience Collaborative Seminar Series SPRING 2024

Friday, March 8th, 3:00 - 4:30 PM
The CUNY Graduate Center
Proshansky Auditorium



Orie Shafer, Ph.D.,
*The Advanced Science
Research Center (ASRC),
CUNY*

Sleep Regulation in the Drosophila Brain: A Tail of Two Processes

*Sleep-like states are ubiquitous in the animal kingdom and are regulated by two distinct forms of regulation, circadian and homeostatic. Homeostatic mechanisms promote increases in sleep pressure during prolonged wakefulness. Circadian mechanisms determine the likelihood of sleep, increasing or decreasing its probability across the day. Though the molecular and neural mechanisms of circadian timekeeping are relatively well-understood, much less is known about the mechanistic basis of sleep homeostasis. The fly *Drosophila melanogaster* is a powerful model organism for the studying of sleep regulation. In this talk I will describe recent work from my lab examining how circadian timekeeping and sleep homeostasis operate in this fly and how these two regulatory processes converge to produce the proper timing and amount of sleep.*

In-person

Hosts: Dr. Nesha Burghardt (nb844@hunter.cuny.edu) and Dr. Asohan Amarasingham (amarasingham@ccny.cuny.edu)

The CUNY Graduate Center, 365 5th Ave (5th Ave & 34th St.), New York, NY