

**2023 Annual CSI Research Retreat Program**  
**October 17<sup>th</sup>, 2023**  
**Smilow Auditorium, University of Pennsylvania**

**We welcome you to the 2023 Annual CSI Research Retreat! We thank all the presenters, attendees, and staff who have made this day possible.**

**Dr. Amita Sehgal, Ph.D., Musser professor of Neuroscience and HHMI Investigator, Director Chronobiology and Sleep Institute (CSI)**

**The CSI Organizing Committee**

**Rebecca Moore, Ph.D.**

**Alexandria Muench, PsyD**

**Emily Pickup, Doctoral Candidate**

**Toshihiro Imamura, MD**

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**2023 CSI Research Retreat Program**

8:00 am – 8:55 am: Continental Breakfast, Registration, Poster Mounting

**9:00 am: Opening Remarks from the Center Director: Dr. Amita Sehgal**

9:00 am – 10:05 am: Session I: Stress and Sleep

Chair Christine So

9:00 am - 9:05 am: Introduction of Session I: Dr. Julie Williams

**Alexandra Ulyanova**

Chronic sleep disruption as a prognostic biomarker of cognitive recovery following traumatic brain injury

**Alexandra Perlegos**

TDP-43 impairs sleep in Drosophila through Ataxin-2 dependent metabolic disturbance

**Julie Williams**

Real time monitoring of Xbp1 activity reveals distinct responses to different stress modalities

**Xiaofeng Guo**

Identification of a galanin neuron subtype in the preoptic hypothalamus activated by homeostatic sleep pressure using single-nucleus RNA-sequencing

10:05 am – 10:20 am: Coffee Break

10:20 am – 11: 10 am Session II: Health and Disease and Sleep

Chair Raquel Adaia

10:20 am – 10:25 am: Introduction of Session II: Dr. Alexandria Muench

**Alexandria Muench**

A Pilot study, The Effect of CBT-I Dose on Sleep Outcomes in Cancer Survivors: A 3-Month Follow-Up

**Elizabeth Lampe**

The Indirect Effect of Impulsivity on the Association Between Sleep Dysregulation and Binge Eating: Potential for a Novel Treatment Target

**Tice Harkins**

Pharyngeal Pressure Catheter Analysis Enhances Characterization of Multilevel Upper-Airway Collapse in Obstructive Sleep Apnea Patients

11:10 am - 12:15 pm: Session III: Circadian Physiology

Chair Sara Bernardez Noya

11:10 am – 11:15 am: Introduction of Session III: Dr. Annika Barber

**Ronan Lordan**

The timing of Bmal1 deletion differentially impacts skeletal muscle morphology, function, and features of aging

**Juan Alvarez**

Dec1 links circadian rhythms to pancreatic  $\beta$ -cell maturation

**Lauren Woodie**

Hepatic Vagal Afferents Convey Clock-Dependent Signals to Regulate Circadian Feeding Behaviors

**Naureen Hameed**

Neuromodulatory Signal Transduction and Integration in a Drosophila Clock Output Region

12:15 pm – 1:30 pm: Lunch

1:30 pm – 2:35 pm: Session IV: Behavior and Molecular Mechanisms Underlying Sleep

Chair Hannah Shoen

1:30 pm – 1:35 pm: Introduction of Session IV: Dr. Max Kelz

**Amy Poe**

Energetic Demands Regulate Sleep-Wake Rhythm Circuit Development

**Fu Li**

Modulation of sleep by trafficking of lipids through the Drosophila blood-brain barrier

**Jiso Hong**

Infralimbic cortical activity during REM sleep promotes fear extinction

**Amber Zimmerman**

DPYD is a conserved effector gene at the mir-137 locus that contributes to dysmyelination and sleep disruption

2:35 pm – 3:00 pm Coffee Break

3:00 pm – 3:20 pm: Data Blitz

3:20 pm – 3:25 pm: Introduction of Keynote Speaker by Dr. Rebecca Moore

3:25 pm – 4:30 pm: Keynote Lecture

Keynote Speaker: Dr. Catherine Dulac, Ph.D.

Harvard University, Department of Molecular and Cellular Biology, Samuel W. Morris University  
Professor and Howard Hughes Medical Institute Investigator

Title: Neurobiology of Social and Sickness Behaviors

4:30 pm – 6:30 pm: Poster Session

6:00 pm: Poster and Talk Awards