2022 Annual CSI Research Retreat Program
October 12, 2022
Smilow Auditorium, University of Pennsylvania

We welcome you to the 2022 Annual CSI Research Retreat and thank you for your participation!

Dr. Amita Sehgal Ph.D.
Musser Professor of Neuroscience and HHMI Investigator; Director, Chronobiology and Sleep Institute (CSI)
The CSI Organizing Committee  
Michael Tackenberg, Ph.D.  
Sharon Schutte-Rodin MD, DABSM, FAASM  
Pawan Kuma Jha, Ph.D.  
Jennifer Goldschmeid, Ph.D.

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2022 CSI Research Retreat Program

8-9am: Breakfast, Registration, Posters

9-10am:
Welcome by Dr. Amita Sehgal Ph.D.
Musser Professor of Neuroscience and HHMI Investigator; Director, Chronobiology and Sleep Institute (CSI)
Introduction to the Keynote Speaker by Sigrid Veasey
Keynote Speaker: Maiken Nedergaard MD, DMSc
Professor, Developmental Neurology and Neurosurgery; Co-Director, Department of Neurology, Center for Translational Neuromedicine; University of Rochester School of Medicine and Dentistry

10am-10:45am:
Session Leader: Juan Alvarez Ph.D.
Session Theme: Molecular Metabolism Around the Clock
Presentations:
Dania Malik  
Glucose Challenge Uncovers Temporal Fungibility of Metabolic Homeostasis Throughout the Day
Michael Iannacone  
Sleep Enhances Survival During Virus Infection in Caenorhabditis Elegans
Pawan Jha  
Acute Sleep Restriction Predisposes the Liver to Inflammation by Elevation of Uric Acid

10:45-11am: Coffee break

11am-12pm:
Session Leader: Lauren Woodie, Ph.D.
Session Theme: Organismal Metabolism Around the Clock
Presentations:
Arjun Sengupta  Vulnerability to Total Sleep Deprivation Is a Function of Peripheral Metabolic Profile
Nadim El Jamal  The Retention of Rhythmic Components in Blood Pressure: A Novel Prognostic Indicator in Chronic Kidney Disease
Oindrila Paul  Effect of Environmental Lighting on Circadian Control of Lung Injury
Lauren Woodie  Vagal Control of Hepatocyte Clock-Independent Rhythmic Gene Expression in the Liver

12-1pm: Lunch and Poster Viewing

1-2PM:
Introduction to the Keynote Speaker by Dr. David Raizen
Keynote Speaker: Horacio de la Iglesia Ph.D.
Professor, Department of Biology; Director, Graduate Program in Neuroscience; University of Washington
Keynote title: “How The Sun and the Moon Time Our Sleep”

2-3pm:
Session Leader: Sammy Dhaliwal, Ph.D.
Session Theme: Psychosocial Factors Affecting Sleep
Presentations:
Olivia Larson  Shallower Sleep Depth in the Laboratory Is Not Related to Insomnia Severity
Mathias Basner  Effects of Bedroom PM2.5, CO2, Temperature, Humidity and Noise on Sleep: An Observational Actigraphy Study
Fanghong Dong  Adverse Family Experiences and Depression in Adolescents: The Moderating Role of Sleep Habits
Bruno Saconi  Daytime Sleepiness, Insomnia Symptoms, and Quality of Life in Veterans with Obstructive Sleep Apnea With or Without Chronic Pain

3-3:15pm: Coffee break

3:15-4:15pm:
Session Leader: Rebecca Moore, Ph.D.
Session Theme: Sleep in Health and Disease
Presentations:
Kyla Mace  A Reverse-genetic Screen of Human Hypersomnia-associated Genes Identifies Synaptic Adhesion Molecule Beat-1a as a Sleep-regulatory Factor
Akshay Tanguturi  Cardiovascular Endpoints for Obstructive Sleep Apnea with Twelfth Cranial Nerve Stimulation (CARDIOSA-12)
Vishnu Cuddapah  Circuits Encoding Sleep Need Can Be Manipulated to Control Seizure Severity
Everett Seay  A Comparison of Visual and Physiologic Assessments of Upper Airway Collapse During Drug-Induced Sleep Endoscopy (DISE)

4:15-6:15pm: Reception, Poster viewing, Trainee awards

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The CSI Research Retreat Posters:
<table>
<thead>
<tr>
<th>Poster #</th>
<th>Name</th>
<th>Abstract/Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rebecca Somach</td>
<td>Alterations in Orexin/Hypocretin Physiology are Different in Male and Female Mice after Mild Traumatic Brain Injury</td>
</tr>
<tr>
<td>2</td>
<td>Amber Zimmerman</td>
<td>Translating GWAS Loci to Function: 3D-genomics Paired with Cross-species Validation Implicates Novel Genes for Insomnia</td>
</tr>
<tr>
<td>3</td>
<td>Fusun D. Balli</td>
<td>Testing Pleiotropic Effects of a High Confidence Autism Spectrum Disorder Gene, ARID1B, on Sleep and Social Preference</td>
</tr>
<tr>
<td>4</td>
<td>Benjamin Auerbach</td>
<td>Tempo: An Unsupervised Bayesian Algorithm for Circadian Phase Inference in Single-cell Transcriptomics</td>
</tr>
<tr>
<td>5</td>
<td>Xiaofeng Guo</td>
<td>Transcriptomic Characterization of Preoptic Area in Homeostatic Sleep Controls Using Single-nucleus RNA-sequencing</td>
</tr>
<tr>
<td>6</td>
<td>Kerry LeCure</td>
<td>Genetic Screen Using the Million Mutation Project to Identify Genes Required for Sickness Sleep in C. Elegans</td>
</tr>
<tr>
<td>7</td>
<td>Elana Pyfrom</td>
<td>Determining the Role of Sleep in Drosophila Brain Lipid Homeostasis</td>
</tr>
<tr>
<td>8</td>
<td>Jessica Schwarz</td>
<td>Blood-born Factors that Change with Age Contribute to Differences in Transcriptional Rhythms</td>
</tr>
<tr>
<td>9</td>
<td>Joseph Bedont</td>
<td>Polyamine Elevation and Nitrogen Stress are Toxic Hallmarks of Chronic Sleep Loss in Drosophila Melanogaster</td>
</tr>
<tr>
<td>10</td>
<td>Yongjun Li</td>
<td>Sleep and Memory Consolidation are Linked by RNA Processing Genes in the Drosophila Mushroom Body</td>
</tr>
<tr>
<td>11</td>
<td>Fu Li</td>
<td>Modulation of Sleep by Trafficking of Lipids through the Drosophila Blood Brain Barrier</td>
</tr>
<tr>
<td>12</td>
<td>Michael Fetchko</td>
<td>Traumatic Brain Injury Effects Circadian Activity and Sleep in Drosophila</td>
</tr>
<tr>
<td>13</td>
<td>Khushbakht Butt</td>
<td>An Auxin-inducible, GAL4-compatible, Gene Expression System for Drosophila</td>
</tr>
<tr>
<td>14</td>
<td>Sergio Crespo-Flores</td>
<td>Deciphering the Molecular Underpinnings of Circadian Signaling Integration in Drosophila by Cell Specific CRISPR Knockout</td>
</tr>
<tr>
<td>15</td>
<td>Stephen Ratner</td>
<td>Impact of Circadian Rhythms on the Outcome of Traumatic Injury in Drosophila Melanogaster</td>
</tr>
<tr>
<td>16</td>
<td>Akanksha Mathivanan</td>
<td>Examining Sleep and Locomotor Behavior Following Traumatic Brain Injury</td>
</tr>
<tr>
<td>17</td>
<td>Naureen Hameed</td>
<td>Neuromodulatory Signal Integration in a Drosophila Clock Output Region</td>
</tr>
<tr>
<td>18</td>
<td>Lisa Bottalico</td>
<td>Systems-based Exposure Modeling of Endocrine Disrupting Chemical Exposure: Exploring Mode of Action of EDCs and Interactions with the Circadian Clock</td>
</tr>
<tr>
<td>19</td>
<td>Christopher Goudarzi</td>
<td>Optimizing DESI-MS Small Molecule Detection from Dried Blood Spots</td>
</tr>
<tr>
<td>20</td>
<td>Ashley Woolfork</td>
<td>A Multimodal Approach to Study the Effects of a Functional Circadian Clock on Brain Metabolite Distribution Using Mass Spectrometry Imaging in Mice</td>
</tr>
<tr>
<td>21</td>
<td>Paula Haynes</td>
<td>Measurement of Metabolic Rate of Drosophila Sleep and Circadian Mutants Using Respirometry</td>
</tr>
<tr>
<td>22</td>
<td>Adam Honig-Frand</td>
<td>Elucidating Excitatory and Inhibitory Inputs to the Preoptic Area of the Hypothalamus</td>
</tr>
<tr>
<td>23</td>
<td>David Lozano</td>
<td>Neural Population Dynamics in Midbrain and Pons During Sleep</td>
</tr>
<tr>
<td>24</td>
<td>Kun Zhu</td>
<td>REV-ERB Repressive Hubs Shape Rhythmic Gene Expression in Liver</td>
</tr>
<tr>
<td>25</td>
<td>Amy Poe</td>
<td>Developmental Emergence of Sleep Rhythms Enables Long-term Memory Capabilities in Drosophila</td>
</tr>
<tr>
<td>26</td>
<td>Jaclyn Durkin</td>
<td>Atx2 is a Modifier of TDP-43-dependent Sleep Disturbances</td>
</tr>
</tbody>
</table>
Milan Szuperak  A Subpopulation of Octopaminergic Neurons Persists throughout Development to Promote Arousal across the Lifespan in Drosophila
Jeffrey Rosa  Identifying the Genetic Basis of Sleep Maturation in Drosophila
Dopaminergic Neurons
Andrzej Wasiczuk  Sex Difference in the Anesthetic State
Timothy Jiang  Modulating Resistance to State Transition by Upregulating Adrenergic Loci Activity
Joseph Buchler  Modulation of Post-mating Sleep Suppression by Food Quality in Drosophila Females
Ogheneroke Akpoghir  TARANIS interacts with PDP1 and VRI to modulate the pace of the circadian clock temperature-dependently
Benjamin Peter Jenny  A Novel Drosophila C9orf72-associated ALS Model with Pre-neurodegeneration Circadian Phenotypes
Sho Inami  Benefits and Neural Mechanisms of Sleep Induced by Vibration in Drosophila
Diego Davila  Dissociative Altered State Elicited by Subanesthetic Concentrations of Ketamine in Humans is Associated with More Stable Neural Dynamics Relative to Wakefulness
Utham Valekunja  Circadian Regulation of TARDIS
Amruta Naik  Circadian Regulation of Influenza Induced Lung Injury in the aging Lung
John Maurer  Neuronal and Homeostatic Regulation of Sleep by the Preoptic Area and Tuberomammillary Nucleus
Jenny Smith  Control of Sleep by the Preoptic Area of the Hypothalamus
Ashley Choi  Neural Circuit Mechanisms Underlying Sleep Disturbances In 16p11.2 Deletion Mouse Model of Autism
Henry Hollis  Multi-tissue Transcriptional Changes and Core Circadian Clock Disruption Following Intensive Care
Jan Hammarlund  Integrated Informatic and Experimental Analysis Reveals Subtype Specific Circadian Changes Predicting Breast Cancer Prognosis and Drug Responsiveness
Thomas Brooks  Temperature Biorhythm Atlas: Diurnal Rhythmicity of Wrist Temperature Predicts Disease Incidence in the UK Biobank
Alexa Watach  Utilizing Workflow Mapping and Stakeholder Engagement to Enhance Implementation Planning of PennPALS
Brendan Keenan  Analyses in Diversity Outbred Mice Identify New Genetic Loci Associated with Sleep Phenotypes
Lindsey Clark  The Identification of Overlap Syndrome in COPD: A Systematic Scoping Review
Abigail Bretzin  A Cross-sectional Study of Sleep Habits and Associated with Self-reported Concussion History in Collegiate Students
Manan Parekh  The Application of Ultrasound to Quantify Hyoid Motion during Drug-Induced Sleep Endoscopy
Marc Kaizzi-Lutu  Repeated Performance on a Working Memory Task is Associated with Slow Wave Activity during Sleep
Christopher Jones  Evaluation of the Efficacy of Auditory Brain Stimulation during Sleep to Mitigate the Neurocognitive Deficits Induced by Sleep Restriction through EEG slow-wave Enhancement
Christopher Jones  Repeated Periods of Sustained Sleep Restriction with intervening Acute Sleep Opportunity Reveal Hysteresis in Neurobehavioral Performance Deficits
52 Mathias Basner  
Ultra-short Objective Alertness Assessment: An Adaptive Duration 
Version of the 3 Minute PVT Accurately Tracks Changes in Psychomotor Vigilance Induced by Sleep 
Restriction

53 Danni Tu  
Dynamic Ensemble Prediction of Cognitive Performance in Spaceflight

54 Yoni Gilad  
Regular Exercise Counteracts Circadian Shifts in Core Body Temperature 
during Long-duration Bed Rest

55 Makayla Cordoza  
Feasibility of Using Wireless EEG to Assess Physiologic Sleep Before, 
During, and After Intensive Care Unit Admission

56 Alexandria Muench  
Does CBT-I Dose effect Sleep Duration and Fatigue in Breast and 
Prostate Cancer Patients?

57 Stephanie Korenic  
Facial Emotion Recognition and Sleep Quality in Community Participants 
at Clinical High-Risk for Psychosis

58 Nayeli Nunez Cruz  
The Relationship between Spirituality and Insomnia in Military Soldiers

59 Holly Barilla  
The Impact of Unit Cohesion on Insomnia Symptoms among Army 
Soldiers