

Society for Research on Biological Rhythms Biennial Conference Program Book



Amita Sehgal SRBR 2022 President

So much has happened since we last met at Amelia Island in 2018. Who would have thought then that an in-person conference was not something one could take for granted? Over the past two years, we've all learned how to get our work done, and network scientifically and perhaps even socially, without physically interacting with people. In this regard, special mention must be made of the virtual 2020 conference, which was outstanding. At the same time, we've missed the impromptu exchange of ideas, the chance meetings and the spontaneous camaraderie that come from in-person interactions and are so much a part of the career path we've chosen. The hope this time was that we'd be able to actually meet, and while we'll keep our fingers crossed until the meeting is over, we're delighted to have so many people register for and participate in SRBR 2022. It is my great pleasure to welcome each and every one of you, and hope that you find the science exciting and invigorating, the training beneficial and the social interactions stimulating.

Huge thanks to Orie Shafer and the program committee, who have assembled a diverse program of cutting-edge science that represents all aspects of our field—clocks in the lab, clocks in the field, and clocks in the clinic. As one might imagine, the pandemic made their jobs more difficult, not only because of potential health concerns of participants but also by the constantly changing COVID-19 guidelines, which have impacted international travel in particular. Big thanks also to fundraising chair, Katja Lamia, who raised money from several different sources and managed to get additional NIH institutes interested in our field. As always, we are very grateful to Ilia Karatsoreos, Professional Development Committee Chair, for organizing Trainee Day and also for his help with fundraising. It would be remiss of me to not also mention the Global Talk Series launched by Ilia, which provided a terrific virtual platform to link chronobiologists around the world and led to some of the trainee talks you will see at the conference. And I'd like to profusely thank Shihoko Kojima for chairing the trainee awards committee and Joe Takahashi and Luis Larronodo for leading the effort to select faculty awards and the SRBR logo. Given the unusual circumstances of this meeting, we also needed a COVID task force, which included Christine Merlin, Orie Shafer and Joanna Chiu. We're fortunate to have colleagues who so generously volunteer their time for the good of the community. And very importantly, meeting organization and coordination required the expert services of our PMG partners, in particular Sheena di Georgio, Dawn Keglor, Sarah Steele and Julie Cauthen. Thanks so much to all these people.

I've tried to restrict my remarks to conference-relevant issues but would like to also acknowledge the amazing SRBR Board of Directors and Committee Chairs I had the privilege of working with these past two years. They were conscientious, thoughtful, dedicated—I could go on, but suffice it to say that colleagues like these make our jobs so great.

Happy Conferencing! Amita

Dr. Amita Sehgal SRBR President 2020-2022 University of Pennsylvania



Orie Shafer SRBR 2022 Program Chair

Welcome to the 18th Biennial Society for Research on Biological Rhythms Biennial Conference. Once again, it's time to highlight new work in the field, develop future directions of research, and discuss the myriad ways in which biological rhythms shape health and inform public policy. Before turning our attention to this year's meeting, I would like to express sincere gratitude to the program committee for SRBR 2020. Led by program chair Katja Lamia, this committee not only developed a fantastic scientific program, but, when faced with the global SARS-Cov2 pandemic, brought it fully online. Thanks are also due to our partners at Parthenon Management Group who assisted Katja and her committee in the difficult task of taking a meticulously planned inperson meeting online.

Though a great deal has changed since the beginning of the pandemic, we must acknowledge that COVID-19 still poses a significant threat. For this reason, we have taken measures to support social distancing at SRBR 2022. For example, unlike previous SRBR conferences, posters will not be hung for the duration of the meeting, but will be presented in three flights over three days. This will allow increased space and less crowding during poster sessions. We are also providing outdoor spaces for meetings and breaks. Our popular "Meet the Professors" sessions will take place outside, weather permitting. We encourage all attendees to take advantage of outdoor spaces for breaks and meetings with colleagues. We also ask that everyone wear masks when inside the conference venue and to always establish as much social distance as possible during symposia and special sessions.

It has been a pleasure to develop this year's program with SRBR's Program Committee and I am grateful for their hard work in planning SRBR 2022. The diverse interests and perspectives of this committee has resulted in a program that, I think, captures the richness and breadth of the field of biological rhythms. I hope that you learn as much from this conference as I did while working with this outstanding group of colleagues to plan it. I would like to thank the program committee, all the volunteers and presenters contributing to the SRBR 2022 program and trainee day, and the generous support of our sponsors. Finally, I would like to welcome the large number of trainees presenting and attending our conference this year, including 187 graduate students and 22 undergraduate students who will present their work. And, finally, to each and every one of you, thank you for attending SRBR 2022!

Dr. Orie Shafer SRBR Program Chair 2022 Advanced Science Research Center, CUNY

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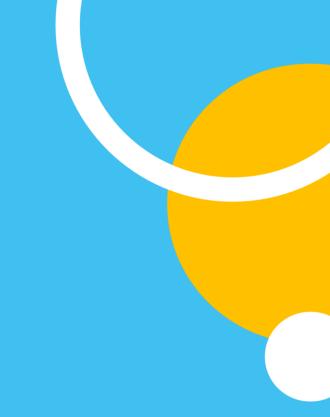
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General Information

General Information

SRBR Registration Desk

The SRBR Registration Desk is located in the Amelia Ballroom Foyer.

Friday, May 13	3:00 pm – 7:00 pm
Saturday, May 14	8:00 am – 8:00 pm
Sunday, May 15	8:00 am – 8:00 pm
Monday, May 16	8:30 am – 6:30 pm
Tuesday, May 17	8:30 am – 6:30 pm
Wednesday, May 18	8:30 am - 1:30 pm

Messages

Messages and communications may be left on the SRBR Message Board next to the SRBR Registration Desk. Meeting participants may check the message board routinely for mail, notes and messages.

Hotel Check-In

Hotel check-in will be in the Hotel Main Lobby at the main entrance of the Resort.

Meals

Reception fare will be available for SRBR attendees at the Welcome Reception on Saturday, May 14 at 6:00 pm. Lunch will be available for registered attendees on Monday, May 16 and Tuesday, May 17 in the Magnolia and Amelia Foyers. SRBR attendees are encouraged to attend the Closing Awards Banquet on Wednesday, May 18. A cocktail reception will begin at 6:00 pm followed by dinner and awards at 6:30 pm. For all other meals, please visit the many dining options that the Resort has to offer.

Conference Mobile App

The SRBR Mobile App is now available in the App Store for iOS devices (e.g. iPhones) and in Google Play for Android devices. Search SRBR2022 and download today. View the latest schedule, attendee list and abstracts!

Follow Us!

Don't forget to follow us on social media @SRBR_Outreach and use the hashtag #SRBR2022 to join the conversation.

Conference Wi-Fi

WiFi Network: Conference Wifi Network Password: amelia19

Meeting Components

Professional Development

Trainee Professional Development Day Saturday, May 14, 9:00 am - 5:30 pm

The Trainee Professional Development Day is an entire day devoted to scientific and career development activities for trainees. The day consists of a keynote address, an activity consisting of one-on-one blitz discussions, and a series of workshops on various topics. The goal of the Trainee Professional Development Day is to allow the next generation of biological rhythm researchers to learn from and interact with faculty members in a more informal and intimate setting than that allowed by the main conference.

Junior Faculty Workshops

Saturday, May 14, 12:00 pm - 5:30 pm

The goal of the Junior Faculty Workshops, which are open to investigators within 8 years of obtaining a faculty position, is to foster the growth and success rate of the next generation of biological rhythm researchers by learning from and interacting with established faculty members in a more informal and intimate setting than that allowed by the main conference. A panel of experienced members of the field will participate in each meeting, to provide tips and advice to junior faculty members and answer questions.

Meet the Professors

Sunday, May 15 - Wednesday, May 18, 11:30 am - 12:00 pm

*Monday session will be hosted 11:00 am - 11:30 am

Meet the Professor Sessions are meant to provide trainees (students and postdocs) the opportunity to interact with experienced faculty members in the field and to foster scholarly conversation. Each day several faculty researchers will be available to talk with trainees. Any trainee interested in meeting these investigators can go to the Magnolia Garden and Terrace and take part in this informal gathering.

Scientific Sessions

Symposia

Sunday, May 15 - Wednesday, May 18, 9:00 am - 11:00 am

Sunday, May 15, 3:00 pm - 5:15 pm

Monday, May 16 4:30 pm - 7:00 pm

Tuesday, May 17, 2:00 pm - 4:30 pm

Symposium Sessions were designed by the 2022 Program Committee and invitations were extended to quest speakers.

Slide Sessions

Sunday, May 15, Tuesday, May 17 and Wednesday, May 18, 12:00 pm - 1:30 pm Slide Sessions were selected by the 2018 Program Committee from abstracts submitted for the 2022 meeting.

Meeting Components

Professional Development

Presidential Symposium

Monday, May 16, 9:00 am - 11:30 am

The Presidential Symposium is a session of talks from special guests of the SRBR President.

Pittendrigh/Aschoff Lecture

Wednesday, May 18, 5:00 pm - 6:00 pm

The Pittendrigh/Aschoff Lecture is a keynote lecture presented by a prominent researcher in the field of chronobiology. This year's lecturer is Dr. Charlotte Helfrich-Förster.

NOTICE: The Pittendrigh/Aschoff Lecture has been cancelled due to unforeseen circumstances in presenter travel. We apologize for the inconvenience and appreciate your understanding.

Data Dash

Sunday, May 15, 7:30 pm - 9:00 pm

Data Dash will showcase the research of some of the trainees presenting posters, including many of the Award recipients. Each speaker will have one minute and one slide to introduce data that they will later present at their poster presentation.

Poster Sessions

Sunday, May 15 - Tuesday, May 17

Posters will be installed beginning at 8:00 am each day by that evening's presenter group. Formal poster presentations will occur at the times listed below. Posters should be removed by 11:00 pm each night or at the conclusion of the session.

Sunday, May 15, 9:00 pm - 10:30 pm

Monday, May 16, 9:00 pm - 10:30 pm

Tuesday, May 17, 9:00 pm - 10:30 pm

Meeting Components

Special Meetings

JBR Editors Meeting, SAGE Publishers Monday, May 16, 1:00 pm – 2:00 pm

SRBR Board of Directors Meeting Wednesday, May 18, 1:30 pm - 3:30 pm

General Meeting of SRBR Members Wednesday, May 18, 4:00 pm – 5:00 pm

This is the biennial meeting gathering the members of the Society. All SRBR members are welcome to attend. Members of the outgoing Board of Directors and representatives of the meeting

organization team will do a brief report, and the new Board of Directors will be presented. Attendees will also be invited to comment and give ideas on the future of the Society.

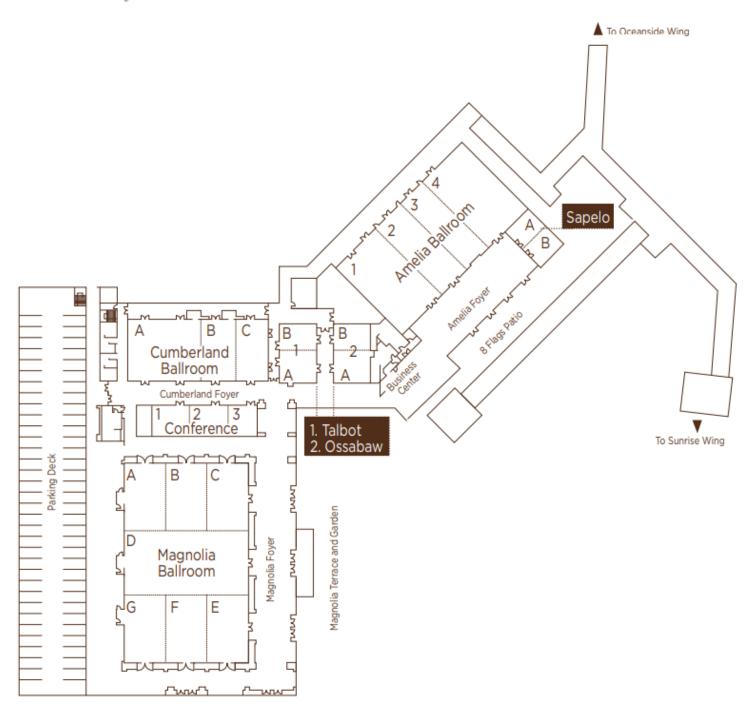
Social Events and Ceremonies

Welcome Reception
Saturday, May 14, 6:00 pm – 8:00 pm
Come and meet other meeting participants and old friends in this official opening event of the meeting! Drinks and small bites served.

Cocktail Reception Wednesday, May 18, 6:00 pm – 6:30 pm

Closing Banquet and Awards
Wednesday, May 18, 6:30 pm
Regular meeting registration includes participation in the banquet. For accompanying guest(s), banquet tickets need to be purchased in advance at the SRBR Registration Desk.







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Share your favorite moments of the #SRBR2022 Conference and tag us on social.

#SRBR2022

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Thank you!

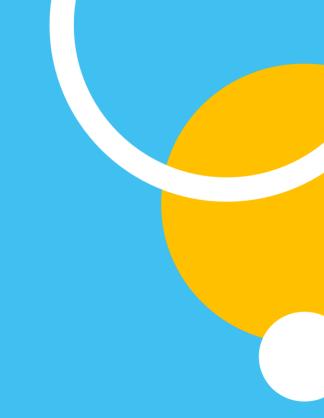
SRBR would like to acknowledge the following funding agencies whose grants have contributed to the overall quality and diversity of the meeting.







Thank you!



Merit Award

Chinyere Agbaegbu Iweka

Brittany Bush

Liliana Bustos

Anna Damato

Shaunak Deota

Brennan Falcy

Corrado Garbazza

Maria Gonzalez

Rachel Harold

Lauren Hartstein

Nazmul Hasan

Marjolein Heddes

Sergio Hidalgo Sotelo

Nicholas Per Huffeldt

Christina Kelliher

Amelia Knudsen-Clark

Alexander Koch

Erica Kwiatkowski

Hongtong Lin

Evan Lloyd

Dingbang Ma

Heather Mahoney

Pratap Singh Markam

Ane Martin Anduaga

Malena Mul Fedele

Nagammal Neelagandan

Xinyu Nie

Yunhui Niu

Oluwabukola Omotola

Justin Palermo

Melina Perez Torres

Jonathan Philpott

Sara Pierre Ferrer

Ausra Pranevicius

Anne Ramsey

Nina Rzechorzek

Aishwarya Sahasrabudhe

Jessica Schwarz

Natalie Storch

Anouk van Beurden

Rachel Van Drunen

Demy van Gilst

Bin Wang

Tenley Weil

Victor Zhang



Vanda Pharmaceutical Excellence Award

Michael Seifu Bahiru Andrei Mihut

Keenan Bates Marie Pariollaud

Angelique Lamaze Estere Seinkmane

Yin Yeng Lee Satish Sen

Sara Meier Lauren Woodie

Excellence Award

Evardra Bell

Griffin Best

Cynthia Hsu



Emmett Chappelle Award

Chinyere Agbaegbu Iweka

Stephany Flores Ramos

Dora Obodo

Bryan Alava

Kelly Fogelson

Oluwabukola Omotola

Eva Andrews

Armina-Lyn Frederick

Omar Ordaz-Johnson

Velarie Ansu

Gabrielle Gloston

Anne Ramsey

David Au

Joshua Gonzalez

Emily Ricketts

Michael Seifu Bahiru

Maria Gonzalez

Raina Sacksteder

Juliana Cazarin de Menezes

Melvin King

Jessica Schwarz

Vaishnavi Dandavate

Nemanja Milicevic

J'Michael Wedderburn

Rodrigo Del Rio

Charles H Philippe Morquette

Global Diversity Fellowship Award

Natalia Bobko

Pagkapol Yhew Pongsawakul

Kirsten Redman-Vira

Guadalupe Rodriguez Ferrante

Pauline van der Watt



2022 SRBR Directors' Awards

<u>Junior Faculty Research Award</u>
Selma Masri

Directors' Award for Service

Nicolas Cermakian

Mary Harrington

Directors' Award for Research & Service

Fred Turk

Aschoff's Rule Award

Vinod Kumar



Saturday, May 14, 2022

The Trainee Professional Development Day is an entire day devoted to scientific and career development activities for trainees. The day consists of a keynote address, an activity consisting of one-on-one blitz discussions, and a series of workshops on various topics. The goal of the Trainee Professional Development Day is to allow the next generation of biological rhythm researchers to learn from and interact with faculty members in a more informal and intimate setting than that allowed by the main conference.

Only those who have pre-registered will be allowed to participate. Registered trainees should attend the workshops they selected when registering. This information will be posted on the message board in the conference center prior to the first session.

8:00 a.m. - 9:00 a.m.

TRAINEE DAY BREAKFAST

Amelia Foyer

9:00 a.m. - 9:20 a.m. TRAINEE DAY WELCOME

Amelia 3 and 4

Trainee Day Chair, Ilia Karatsoreos SRBR President Elect, Horacio de la Iglesia

9:20 a.m. - 10:00 a.m.

TRAINEE DAY KEYNOTE

Amelia 3 and 4

Speaker: Till Roenneberg, Professor Emeritus of Chronobiology at the Institute of Medical Psychology at Ludwig-Maximilian University

10:10 a.m. - 11:00 a.m.

TRAINEE DAY SESSION 1

EXPERIMENTAL DESIGN: DO'S, DON'TS AND GOOD PRACTICE IN CHRONOBIOLOGY

Amelia 1

Chair: Matthew Butler, Co-Chair: Eric Bittman

10:10 a.m. - 11:00 a.m.

TRAINEE DAY SESSION 1

MODELING SUCCESSFUL INTERDISCIPLINARY COLLABORATIONS: HOW MODELERS CAN HELP EXPERIMENTAL SCIENTISTS

Amelia 2

Chair: Jae Kyoung Kim

CHRONOBIOLOGY BOOTCAMP I: HISTORY, BASIC CONCEPTS AND THE MOLECULAR CLOCK IN MAMMALS

Amelia 3 and 4

Chair: Joseph Takahashi

PUBLIC OUTREACH - TIPS AND TRICKS FOR GETTING YOUR SCIENCE OUT THERE USING SOCIAL MEDIA

Cumberland A

Chair: Laura Kervezee

Co-Chair: Bharath Ananthasubramaniam

TEACHING CHRONOBIOLOGY: STRATEGIES FOR DISCOVERY-BASED LEARNING

Cumberland B

Chair: Mary Harrington Co-Chair: Todd Weber

11:10 a.m. - 12:00 p.m.

TRAINEE DAY SESSION 2

CHRONOBIOLOGY BOOTCAMP II: MOLECULAR CLOCKS IN PRINCIPLE AND PRACTICE

Amelia 1

Chair: Martha Merrow, Co-Chair: Antony Dodd

TRAINING NEW RESEARCHERS, AND WORKING ACROSS DIFFERENCES

Amelia 2

Chair: Joseph Seggio

Co-Chair: Douglas McMahon

Co-Chair: Ketema Paul

11:10 a.m. - 12:00 p.m.

TRAINEE DAY SESSION 2

CHRONOBIOLOGY BOOTCAMP III: SCN PAST TO PRESENT

Amelia 3 and 4

Chair: Erik Herzog

Co-Chair: Jennifer Evans

GETTING YOUR MESSAGE ACROSS...AT THE TALK, THE POSTER, AND THE BAR

Cumberland A

Chair: Steven Brown

DUTREACH AND COMMUNICATION OF CHRONOBIOLOGY TO DIFFERENT GROUPS

Cumberland B

Chair: Michael Tackenberg Co-Chair: Luis Larrondo

12:00 p.m. - 2:00 p.m.

TRAINEE DAY: LUNCH AND POSITIVE FEEDBACK LOOPING

Magnolia Gardens and Terrace

2:10 p.m. - 3:00 p.m.

TRAINEE DAY SESSION 3

THE FACULTY JOB SEARCH

Amelia 1

Chair: Ryan Logan

Co-Chair: Filipa Rijo-Ferreira

WHERE TO FROM HERE? ALTERNATIVES TO ACADEMIC JOBS

Amelia 2

Chair: Allison Brager

CHRONOBIOLOGY BOOTCAMP IV: ENTRAINMENT: FROM CONCEPT TO ANALYSIS

Amelia 3 and 4

Chair: Karen Gamble

Co-Chair: Hanspeter Herzel

2:10 p.m. - 3:00 p.m. Trainee day session 3

NETWORKING TIPS AND TRICKS

Cumberland A

Chair: Ilia Karatsoreos Co-Chair: Elizabeth Klerman

PUBLIC OUTREACH - TIPS AND TRICKS FOR GETTING YOUR SCIENCE OUT THERE USING SOCIAL MEDIA

Cumberland B

Chair: Laura Kervezee

Co-Chair: Bharath Ananthasubramaniam

3:00 p.m. - 3:30 p.m.

TRAINEE DAY COFFEE BREAK

Amelia Foyer

3:30 p.m. - 4:20 p.m.

TRAINEE DAY SESSION 4

COMPARATIVE CLOCKS/NON-TRADITIONAL SPECIES

Amelia 1

Chair: Alex Keene

WHEN, WHERE, AND HOW TO PUBLISH AND REVIEW

Amelia 2

Chair: Mary Harrington

CHRONOBIOLOGY BOOTCAMP V: HUMAN CLOCKS AND TRANSLATION

Amelia 3 and 4

Chair: Nicole Bowles Co-Chair: Phyllis Zee

DEALING WITH YOUR DATA: CODE MAINTENANCE AND REPAIR SHOP

Cumberland A

Chair: Jacob Hughey

3:30 p.m. - 4:20 p.m. Trainee day session 4

LAB AND FIELD STUDIES IN CHRONOBIOLOGY

Cumberland R

Chair: Gisele Oda

4:30 p.m. - 5:30 p.m.

TRAINEE DAY GLOBAL TALK SERIES: PEOPLE'S CHOICE RUNNER'S UP

Amelia 3 and 4

Chair: Ilia Karatsoreos

THE FORMATION OF A FUZZY COMPLEX IN THE NEGATIVE ARM REGULATES CIRCADIAN CLOCK ROBUSTNESS

Speaker: Meaghan Jankowski

CIRCADIAN CONTROL OF HEPARAN SULFATE LEVELS TIMES PHAGOCYTOSIS OF AMYLOID BETA AGGREGATES: THE FULL STORY

Speaker: Gretchen Clark

6:00 p.m. - 8:00 p.m. WELCOME RECEPTION

Magnolia Gardens and Terrace

Junior Faculty Workshops

Saturday, May 14, 2022

The goal of the Junior Faculty Workshops is to foster the growth and success rate of the next generation of biological rhythm researchers by learning from and interacting with established faculty members in a more informal and intimate setting than that allowed by the main conference. A panel of experienced members of the field will participate in each meeting, to provide tips and advice to junior faculty members and answer questions.

Attendance is open to investigators within ~8 years of obtaining a faculty position. Only those who have pre-registered will be allowed to participate. A list of registered faculty will be posted on the message board in the conference center prior to the first session.

12:00 p.m. - 12:45 p.m.

JUNIOR FACULTY WORKSHOP LUNCH and NETWORKING

Magnolia Gardens and Terrace

12:45 p.m. - 1:00 p.m.

JUNIOR FACULTY WORKSHOP WELCOME

Cumberland C

Panelist: Charna Dibner Moderator: Jennifer Hurley Moderator: Michael Rust

1:00 p.m. - 2:00 p.m.

COMMUNICATING YOUR RESEARCH: PUBLICATION AND PUBLIC OUTREACH

Cumberland C

Panelist: Luis Larrondo Panelist: Jennifer Evans Panelist: Colleen McClung Panelist: Karyn Esser

2:00 p.m. - 3:00 p.m.

BEST PRACTICES IN MENTORSHIP AND PERSONNEL MANAGEMENT

Cumberland C

Panelist Jay Dunlap Panelist Joanna Chiu Panelist Erik Herzog Panelist Rae Silver

Junior Faculty Workshops

3:30 p.m. - 4:30 p.m.

JUGGLING RESEARCH, TEACHING, AND SERVICE RESPONSIBILITIES IN ACADEMIA

Cumberland C

Panelist: Nicolas Cermakian

Panelist: Daniel Forger

Panelist: Kristin Eckel-Mahan

Panelist: Dmitri Nusinow

4:30 p.m. - 5:30 p.m.

NAVIGATING AN EVER CHANGING FUNDING ENVIRONMENT

Cumberland C

Panelist: Michael Sesma

Panelist: John Hogenesch

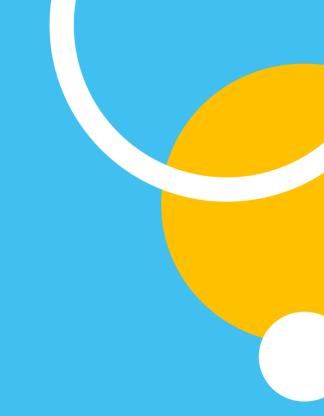
Panelist: Tami Martino

Panelist: Steven Brown

6:00 p.m. - 8:00 p.m.

WELCOME RECEPTION

Magnolia Gardens and Terrace



Friday, May 13, 2022

3:00 p.m. - 7:00 p.m. REGISTRATION

Amelia Foyer

Saturday, May 14, 2022

8:00 a.m. - 8:00 p.m. REGISTRATION

Amelia Foyer

8:00 a.m. - 8:00 p.m. NURSING MOTHERS' ROOM

Conference 1

9:00 a.m. - 5:30 p.m. Trainee professional development day

Amelia Ballroom, Cumberland A, Cumberland B
* Open to preregistered attendees only

12:00 p.m. - 5:30 p.m. JUNIOR FACULTY WORKSHOPS

Cumberland C

* Open to preregistered attendees only

6:00 p.m. - 8:00 p.m. WELCOME RECEPTION

Magnolia Gardens and Terrace

Sunday, May 15, 2022

8:00 a.m. - 8:00 p.m. REGISTRATION

Amelia Foyer

8:00 a.m. - 10:30 p.m.

NURSING MOTHERS' ROOM

Conference 1

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 1: THE KONOPKA SYMPOSIUM: CIRCADIAN COMPONENTS OF CIRCATIDAL CLOCKS, CIRCALUNAR CLOCKS AND PHOTOPERIODISM

Amelia 1 and 2

Chair: Tobias Kaiser Co-Chair: Patrick Emery

CIRCATIDAL RHYTHMS IN THE GENETICALLY TRACTABLE CRUSTACEAN PARHYALE HAWAIENSIS

Speaker: Patrick Emery

PHOTOPERIODISM IN A BACTERIUM? HOW CYANDBACTERIA PREDICT WINTER

Speaker: Maria Luísa Jabbur

CHARACTERIZING THE ROLE OF THE CIRCADIAN CLOCK IN ENDOGENOUS LUNAR TIME-KEEPING OF A MARINE INSECT

Speaker: Jule Neumann

THE MOLECULAR AND QUANTUM BASIS OF CRYPTOCHROME-MEDIATED MAGNETOSENSITIVITY

Speaker: Charalambos Kyriacou

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 2: NEURAL NETWORKS AND CIRCADIAN TIMEKEEPING

Amelia 3 and 4

Chair: Steven Brown

SCN VIP NEURONS: PHYSIOLOGICAL REGULATION AND TRANSCRIPTIONAL HETEROGENEI Speaker: Patrick Fuller

SCN OUTPUT PATHWAYS REGULATING PHYSIOLOGICAL RHYTHMS

Speaker: Timothy Brown

Sunday, May 15, 2022

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 2: NEURAL NETWORKS AND CIRCADIAN TIMEKEEPING

Amelia 3 and 4

THE ROLE OF SALT INDUCIBLE KINASE I IN THE REGULATION OF SLEEP AND CIRCADIAN RHYTHMS

Speaker: Aarti Jagannath

SOMATOSTATIN SIGNALING REGULATES PHOTIC PROCESSING AND SCN FUNCTION IN MICE

Speaker: Jennifer Evans

MICROGLIAL CLOCKS IN THE SUPRACHIASMATIC NUCLEUS: FRIENDS OR FOES OF NETWORK-

ENCODED CIRCADIAN TIMEKEEPING?

Speaker: Marco Brancaccio

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 3: CHRONOTHERAPEUTICS

IT'S ABOUT TIME: EXPLORING THE ROLE OF THE CIRCADIAN CLOCK IN DISEASE

Cumberland Ballroom

Chair: Erguan Zhang

TEMOZOLOMIDE CHRONOTHERAPY IN PATIENTS WITH BRAIN TUMORS

Speaker: Jian Campian

IT'S ABOUT TIME: EXPLORING THE ROLE OF THE CIRCADIAN CLOCK IN DISEASE

Speaker: Angela Relógio

TIMING EFFECTS IN MEDICINE USING EXISTING DATA

Speaker: Marc Ruben

BRIGHT LIGHT THERAPY IS EFFECTIVE AND SAFE IN TREATING PERINATAL DEPRESSION: A RANDOMIZED, PLACEBO-CONTROLLED TRIAL

Presenter: Corrado Garbazza

11:30 a.m. - 12:00 p.m.

COFFEE BREAK - PLEASE VISIT THE EXHIBITORS AND POSTERS!

Amelia Foyer

11:30 a.m. - 12:00 p.m.

MEET THE PROFESSORS

Magnolia Garden and Terrace

Sunday, May 15, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 1

Amelia 1 and 2

Chair: Hao Duong

INVESTIGATING THE ROLE OF CRYS IN REGULATING TRANSLATION DYNAMICS DURING FEEDING/FASTING CYCLE

Presenter: Nagammal Neelagandan

RHYTHMIC SYSTEMIC SIGNALS DRIVE RHYTHMIC GENE EXPRESSION THROUGH MTOR SIGNALING IN MOUSE LIVER

Presenter: Aishwarya Sahasrabudhe

INTERMITTENT EXOGENOUS GLUCOCORTICOIDS REQUIRE AN INTACT CIRCADIAN CLOCK TO ENGAGE THE MUSCLE-SPECIFIC PGCIALPHA AND REMODEL MUSCLE METABOLISM

Presenter: Mattia Quattrocelli

VAGAL CONTROL OF HEPATOCYTE CLOCK-INDEPENDENT RHYTHMIC GENE EXPRESSION IN LIVER

Presenter: Lauren Woodie

DELETION OF PERIOD GENES EXACERBATES DIET-INDUCED OBESITY IN FEMALE, BUT NOT MALE, MICE

Presenter: Elizabeth Kantra

THE RHYTHMIC ROLE OF THE PARAVENTRICULAR HYPOTHALAMUS IN THE REGULATION OF DIURNAL ENERGY BALANCE

Presenter: Rachel Van Drunen

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 2

Amelia 3 and 4

Chair: Dipesh Chaudhury

INTRINSIC PERIOD ARCHITECTURE IN THE CENTRAL CLOCK ENCODES PACEMAKING FUNCTIONS AND AFTEREFFECTS

Presenter Mariko Izumo

DAILY CHANGES IN LIGHT INFLUENCE MOOD VIA INHIBITORY NETWORKS WITHIN THE

THALAMIC PERIHABENULAR NUCLEUS

Presenter: Tenley Weil

IDENTIFICATION OF 4 DROSOPHILA SPSP NEURONS AS SLEEP NEED COUNTERS

Presenter: Xihuimin Dai

Sunday, May 15, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 2

Amelia 3 and 4

HOW DO SCN NEURONS READ THE TIME OF THE DAY IN DIURNAL AND NOCTURNAL RODENTS?

Presenter: Patrycja Orlowska-Feuer

MOSQUITO CRYPTOCHROME CONFERS SPECIES-SPECIFIC EFFECTS WHEN EXPRESSED IN DROSOPHILA

Presenter: David Au

SYNAPTIC BMALI BIOCHEMICALLY ORCHESTRATES CIRCADIAN SYNAPTIC VESICLE DYNAMICS

Presenter: llaria Barone

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 3

Cumberland Ballroom

Chair: Micaela Martinez

IDENTIFICATION OF GENE NETWORKS UNDERLYING PHOTOPERIODIC GROWTH IN ARABIDOPSIS

Presenter: Joshua Gendron

THE GREAT REPLACEMENT THEORY: HOW CAN WE EXPLAIN THE RAPID EXPANSION OF THE DROSOPHILA LS-TIM ALLELE IN THE NORTHERN HEMISPHERE?

Presenter: Angelique Lamaze

UNCOUPLING OF BEHAVIOURAL AND METABOLIC RHYTHMS IN AN ARCTIC RUMINANT

Presenter: Sara Meier

WATER IS NECESSARY FOR PHOTOPERIODIC TESTICULAR RECRUDESCENCE IN ZEBRA FINCHES BUT NOT VOCAL STATE

CHANGE

Presenter: Vincent Cassone

TEMPORAL NICHE PARTITIONING OF THE ISLAND FOX (UROCYON LITTORALIS) AND ISLAND SPOTTED SKUNK (SPILOGALE GRACILIS AMPHIALA)

Presenter: Victor Zhang

CIRCADIAN CONTROL OF TEMPERATURE INSIDE OVERWINTERING HONEY BEE COLONIES IN A TEMPERATE REGION

Presenter: Manuel Giannoni-Guzmán

Sunday, May 15, 2022

1:30 p.m. - 3:00 p.m.

LUNCH BREAK ON OWN - PLEASE VISIT THE EXHIBITORS AND POSTERS!

3:00 p.m. - 5:15 p.m.

SYMPOSIUM 4: CLOCKS ON A CHANGING PLANET

Amelia 1 and 2

Chair: Noga Kronfeld-Schor

FITNESS CONSEQUENCES OF CHRONIC LIGHT POLLUTION EXPOSURE IN NOCTURNAL AND DIURNAL RODENTS

Speaker: Hagar Vardi-Naim

UNCERTAIN TIMES, SPACE, AND CUES: AVIAN MIGRATION ON A CHANGING PLANET

Speaker: Barbara Helm

THE EFFECT OF URBANISATION ON DAILY RHYTHMS OF ACTIVITY AND BODY TEMPERATURE OF WILD BIRDS

Speaker: Davide Dominoni

MANAGING TIME IN A CHANGING WORLD

Speaker: Barbara Mizumo Tomotani

3:00 p.m. - 5:15 p.m.

SYMPOSIUM 5: INFLUENCES OF SOCIAL FACTORS ON CIRCADIAN AND SLEEP BEHAVIOR

Amelia 3 and 4

Chair: Joel Levine

Cn-Chair: Wanhe Li

A DROSOPHILA MODEL FOR UNDERSTANDING THE PERCEPTION AND CENTRAL PROCESSING OF CHRONIC SOCIAL

ΙΠΙΤΑ ΙΠΖΙ

Co-Chair: Wanhe Li

HOW DOES SOCIAL LIFESTYLE AFFECT THE CIRCADIAN SYSTEM OF YOUNG HONEY BEES?

Speaker: Katharina Beer

THE INFLUENCE OF THE SOCIAL ENVIRONMENT ON THE BRAIN CIRCADIAN TRANSCRIPTOME OF TWO SOCIAL BEES DIFFERING IN THE LEVEL OF SOCIAL COMPLEXITY

Speaker: Guy Bloch

SOCIAL FACTORS AND PATTERNS OF DIURNAL BEHAVIORS IN HUMAN POPULATIONS

Speaker: Qian Xiao

THE POWER OF ACTIMETRY AS A DIAGNOSTIC TOOL IN CIRCADIAN MEDICINE

Speaker: Till Roenneberg

Sunday, May 15, 2022

3:00 p.m. - 5:15 p.m.

SYMPOSIUM 6: CIRCADIAN HOMEOSTASIS AND CARCINOGENESIS

Cumberland Ballroom

Chair: Francis Levi

CIRCADIAN DYSFUNCTION INDUCES CARCINOGENESIS IN HUMAN HEPATOCYTES

Speaker: Loning Fu

THE MYC ONCOPROTEIN DISRUPTS THE MOLECULAR CLOCK IN EARLY LUNG CANCER

Speaker: Juliana Cazarin de Menezes

ROLE OF THE CIRCADIAN CLOCK IN ENVIRONMENTAL CARCINOGENESIS THROUGH GENOMIC STABILITY

Speaker: Shobhan Gaddameedhi

CIRCADIAN DISRUPTION AND CANCER RISK - THE EPIDEMIOLOGICAL EVIDENCE

Speaker: Eva Schernhammer

CIRCADIAN DISRUPTION AS A TELEMONITORED SURROGATE FOR INDIVIDUALS AT RISK OF CANCER DEVELOPMENT OR PROGRESSION

Speaker: Francis Levi

5:15 p.m. - 7:30 p.m.

DINNER ON OWN AND FREE TIME

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

PHARMACOLOGICAL TARGETING OF ROR BENEFITS CARDIAC REPAIR AFTER HEART ATTACK

Presenter: Janan Shoja Doost

INVESTIGATING CIRCADIAN CLOCK GENES IN CANCER AND THEIR CORRELATION WITH SENSITIVITY TO CHEMOTHERAPEUTIC DRUGS

Presenter: Pauline van der Watt

DISRUPTION OF THE CIRCADIAN CLOCK DRIVES APC LOSS OF HETEROZYGOSITY TO ACCELERATE COLORECTAL CANCER

Presenter: Bridget Fortin

THE MOLECULAR CLOCK IS A NOVEL PHARMACOLOGICAL TARGET TO REGULATE LITERINE CONTRACTIONS IN PREGNANCY

Presenter: Hanne Hoffmann

Sunday, May 15, 2022

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

CLUSTER HEADACHE AS A CIRCADIAN DISORDER: DELINEATING CIRCADIAN PATHWAYS IN THE TRIGEMINAL PAIN SYSTEM

Presenter: Chorong Han

THE CLOCK IS TICKING FOR HIV-1

Presenter: Helene Borrmann

SKELETAL MUSCLE SPECIFIC RESCUE OF BMALI IS SUFFICIENT TO EXTEND THE LIFESPAN OF THE BMALI KO MOUSE

Presenter: Miguel Gutierrez-Monreal

ENVIRONMENTAL CIRCADIAN DISRUPTION EXTENSIVELY REMODELS LIVER CIRCADIAN PROTEOMES

Presenter: Han Duong

A HYBRID EXPERIMENTAL/INFORMATIC APPROACH IDENTIFIES RHYTHMS AND TARGETS IN BREAST CANCER

Presenter: Jan Hammarlund

THE TICKING CLOCK, AN AGING STUDY OF A COLONIAL CHORDATE LINKING STEM CELL AGING TO MOLECULAR DECLINE OF CIRCADIAN

REGULATION

Presenter: Yotam Voskoboynik

DIEL AND ANNUAL TIMEKEEPING MECHANISMS MAY CONSTRAIN SPECIES RANGE- SHIFTS UNDER CLIMATE CHANGE

Presenter: Nicholas Per Huffeldt

DAILY RHYTHM OF DYNAMIC CEREBRAL AUTOREGULATION IN PATIENTS AFTER ACUTE ISCHEMIC STROKE

Presenter: Daniel Abadjiev

EFFECTS OF EXERCISE ON REALIGNING A DISRUPTED MOLECULAR CLOCK

Presenter: Emily Schmitt

DEPRESSION. FAMILY MENTAL HEALTH AND LONGITUDINAL PATTERNS OF HEART RATE RHYTHMICITY DURING PREGNANCY

Presenter: Crystal Epstein

BROAD SPECTRUM DAYTIME LIGHT EXPOSURE IMPROVES COGNITION INDEPENDENT OF CHANGES IN ALERTNESS

Presenter: Renske Lok

Sunday, May 15, 2022

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

USING MACHINE LEARNING TO IDENTIFY NOVEL CIRCADIAN BEHAVIORS

Presenter: Jeff Jones

SCN-OVLT VASCULAR PORTAL SYSTEM: IN VIVO DETERMINATION OF DIRECTION OF BLOOD FLOW

Presenter: Javier Stern

AUTISTIC-LIKE BEHAVIOR AND CEREBELLAR DYSFUNCTION IN BMALL MUTANT MICE AMELIORATED BY MTDRCI INHIBITION

Presenter: Abhishek Mishra

NONINVASIVE RECORDING OF TEMPERATURE AND ACTIVITY CYCLES IN CYNOMOLGUS MONKEYS

Presenter: Ruitong Jiang

PARAMETRIC EFFECTS OF LIGHT VIA MULTIPLE PHOTORECEPTOR TYPES CONTRIBUTE SIGNIFICANTLY TO CIRCADIAN ENTRAINMENT IN DROSOPHII A MEI ANDGASTER

Presenter: Lakshman Abhilash

ENDOCANNABINOID RECEPTOR KNOCKOUT PROTECTS AGAINST CIRCADIAN DESYNCHRONIZATION-INDUCED METABOLIC DISRUPTION

Presenter: Brennan Falcy

DIURNAL VARIATION OF ASTROCYTE GAP JUNCTION DYNAMICS IN THE MOLECULAR LAYER OF THE HIPPOCAMPAL DENTATE GYRUS

Presenter: Taylor Jorgensen

THE GATING OF SLEEP BY DYNAMIC DOPIRI EXPRESSION IN CIRCADIAN LND NEURONS

Presenter: Jasmine Quynh Le

SUBCIRCUITS WITHIN THE DROSOPHILA EVENING OSCILLATOR DIFFERENTIALLY REGULATE SLEEP, AROUSAL, AND

CIRCADIAN AMPLITUDE

Presenter: Matthew Brown

THE DORSAL CLOCK NEURONS OF DROSOPHILA MELANDGASTER - NEW INSIGHTS INTO THEIR CONNECTIVITY AND MORPHOLOGY

Presenter: Nils Reinhard

CIRCADIAN RHYTHMS IN CONDITIONED FEAR EXTINCTION RECALL ARE ASSOCIATED WITH TIME-OF-DAY DIFFERENCES IN INFRALIMBIC PREFERENCES IN

Presenter: Matthew Hartsock

Sunday, May 15, 2022

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

DIURNAL RHYTHMS IN PHOTIC SNEEZING

Presenter: Manuel Spitschan

CIRCADIAN MODULATION OF VISUAL BEHAVIORS BY THE IPRGC MOLECULAR CLOCK

Presenter: Kayla Miguel

A RETINAL REPRESENTATION OF ENVIRONMENTAL ILLUMINATION WITHIN THE MASTER CIRCADIAN CLOCK

Presenter: Charles H Philippe Morquette

A SINGLE ATYPICAL PHOSPHOSWITCH IN SPECIFIC SCN NEURONS GATES WINTER SEASONALITY IN MICE

Presenter: Sara Pierre Ferrer

CLOCK-MEDIATED CHANGES IN THE ACTIVITY OF A HOMEOSTATIC SLEEP CENTER CONTRIBUTE TO DAYTIME SLEEP IN

DROSOPHILA

Presenter: Cynthia Hsu

SLEEP AND MEMORY CONSOLIDATION ARE LINKED BY RNA PROCESSING GENES IN THE DROSOPHILA MUSHROOM BODY

Presenter: Yangjun Li

PERSONALIZED SLEEP-WAKE PATTERNS ALIGNED WITH CIRCADIAN RHYTHM RELIEVE DAYTIME SLEEPINESS

Presenter: Hyukpya Hang

ALTERED LIGHT RESPONSES IN MICE LACKING THE CIRCADIAN DEUBIQUITINASE USP2

Presenter: Shashank Srikanta

A FUZZY COMPLEX IN THE NEGATIVE ARM REGULATES CIRCADIAN CLOCK ROBUSTNESS

Presenter: Meaghan Jankowski

ANALYSIS OF CLOCK: BMALI ACTIVITY AT MOUSE LIVER ENHANCERS IN VIVO BY SINGLE MOLECULE FOOTPRINTING

Presenter: Xinyu Nie

QUANTIFICATION OF PROTEIN ABUNDANCE AND INTERACTION DEFINES A MECHANISM FOR OPERATION OF THE CIRCADIAN CLOCK

Presenter: Alexander Koch

BIDIRECTIONAL RELATIONSHIP BETWEEN THE CORE CLOCK AND IRON METABOLISM

Presenter: Jesse Janoski

Sunday, May 15, 2022

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

INTERACTION MAPPING OF INDIVIDUAL CIRCADIAN CLOCK PROTEINS IN SINGLE CELLS

Presenter: James Bagnall

SMALL MOLECULE SCREENING: PASSING THE BINDING TEST

Presenter: Diksha Sharma

A ROLE FOR GENE EXPRESSION AND MRNA STABILITY IN NUTRITIONAL COMPENSATION OF THE CIRCADIAN CLOCK

Presenter: Christina Kelliher

MECHANISMS UNDERLYING RHYTHMIC EXCITABILITY IN MAMMALIAN CLOCK NEURONS

Presenter: Priyam Narain

THE PHOSPHO-CODE DETERMINING CIRCADIAN FEEDBACK LOOP CLOSURE AND OUTPUT IN NEUROSPORA

Presenter: Bin Wang

LIGHT-EXCITED NEURONS OF THE SUPRACHIASMATIC NUCLEUS INITIATE ENTRAINMENT TO SHIFTED LIGHT CYCLES

Presenter: Anouk van Beurden

A LEPTIN RESPONSIVE HYPOTHALAMIC CIRCADIAN CIRCUIT

Presenter: Qijun Tang

CIRCADIAN RHYTHMS IN PARASITIC DISEASES: AN UNDERLYING CLOCK OF MALARIA PARASITES

Presenter: Filipa Rijo-Ferreira

PHYSIOLOGICAL SIGNIFICANCE OF INTESTINAL CLOCKS IN THE DEVELOPMENT OF IBD

Presenter: Yunhui Niu

GENETIC IDENTIFICATION OF A PUTATIVE VTA TO SCN DOPAMINE CIRCUIT REQUIRED FOR DIET-INDUCED OBESITY IN MICE

Presenter: Firozeh Farahmand

MUSCLE-SPECIFIC CRY2 INFLUENCES EXERCISE PERFORMANCE AND MUSCLE METABOLISM

Presenter: Lara-Leonie Fetzer

GUT MICROBES ARE ESSENTIAL FOR LIVER CIRCADIAN CLOCK-MEDIATED PARTITIONING OF FUEL UTILIZATION,

GLUCONEOGENESIS, AND LIPID OXIDATION

Presenter: Katya Frazier

Sunday, May 15, 2022

7:30 p.m. - 9:00 p.m. Data dash session

Amelia 1 and 2

Chairs: Barbara Murphy and Ines Chaves

CIRCATIDAL RHYTHMS OF ACTIVITY IN PARHYALE HAWAIENSIS REQUIRE BMALI

Presenter: Erica Kwiatkowski

GENETIC IDENTIFICATION OF A POPULATION OF DOPAMINE NEURONS THAT IS NECESSARY

FOR CIRCADIAN FOOD ANTICIPATORY

ACTIVITY

Presenter: Jacqueline Trzeciak

THE INTESTINAL CIRCADIAN CLOCK DRIVES MICROBIAL RHYTHMICITY TO MAINTAIN

GASTROINTESTINAL HOMEOSTASIS

Presenter: Marjolein Heddes

9:00 p.m. - 10:30 p.m.

POSTER SESSION 1

Magnolia Ballroom

Monday, May 16, 2022

8:00 a.m. - 6:30 p.m. REGISTRATION

Amelia Foyer

8:00 a.m. - 10:30 p.m.

NURSING MOTHERS' ROOM

Conference 1

9:00 a.m. - 11:00 a.m.

PRESIDENTIAL SYMPOSIUM: ULTRADIAN CYCLES OF METABOLISM

Amelia Ballroom

Chair: Erik Herzog

METABOLIC CYCLES UNDERLYING GENE EXPRESSION RHYTHMS

Speaker: Benjamin Tu

GROWING THOUGH FEAST AND FAMINE

Speaker: Helen Causton

HOW AUTONOMOUS METABOLIC OSCILLATIONS IN SINGLE CELLS MIGHT EXERT CELL CYCLE

CONTROL

Speaker: Matthias Heinemann

11:00 a.m. - 11:30 a.m.

MEET THE PROFESSORS

Magnolia Garden and Terrace

11:00 a.m. - 11:30 a.m.

COFFEE BREAK - PLEASE VISIT THE EXHIBITORS AND POSTERS!

Amelia Foyer

Monday, May 16, 2022

11:30 a.m. - 1:00 p.m. IN MEMORIAM

Amelia Ballroom

Chairs: Michael Nitabach and John Hogenesch

REMEMBRANCE OF DR. MICHAEL MENAKER, UNIVERSITY OF VIRGINIA

REMEMBRANCE OF DR. PATRICIA DECOURSEY, UNIVERSITY OF SOUTH CAROLINA

Speaker: Joseph Takahashi

REMEMBRANCE OF DR. PATRICIA DECOURSEY, UNIVERSITY OF SOUTH CAROLINA

Speakers: Joseph Takahashi and Mary Harrington

REMEMBRANCE OF DR. ARNOLD ESKIN, UNIVERSITY OF HOUSTON

Speakers: Paul Hardin, Samer Hattar, and Carl Johnson

REMEMBRANCE OF DR. PAOLO SASSONE-CORSI, UNIVERSITY OF CALIFORNIA-IRVINE

Speakers: Kristin Eckel-Mahan and Nicolas Cermakian

REMEMBRANCE OF DR. MICHAEL HUGHES, WASHINGTON UNIVERSITY-ST LOUIS

Speakers: John Hogenesch, Michael Nitabach, and Erik Herzog

1:00 p.m. - 2:00 p.m.

LUNCH PROVIDED BY SRBR!

Magnolia and Amelia Foyers

1:00 p.m. - 2:00 p.m.

JBR EDITORS MEETING

Talhot

2:00 p.m. - 4:00 p.m.

PANEL DISCUSSION: REPRODUCIBILITY, DATA SHARING AND OPEN SCIENCE

Amelia 1 and 7

Chair: Manuel Spitschan

OPEN SCIENCE AND REPRODUCIBILITY IN CHRONOBIOLOGY: THE ROLE OF THE JOURNAL OF

BIOLOGICAL RHYTHMS

Speaker: Mary Harrington

REPRODUCIBILITY, DATA SHARING AND OPEN SCIENCE

Speaker: Shaun Purcell

MAKING SCIENCE OPEN BY DEFAULT

Speaker: David Mellor

Monday, May 16, 2022

2:00 p.m. - 4:00 p.m.

PANEL DISCUSSION: REPRODUCIBILITY, DATA SHARING AND OPEN SCIENCE

Amelia 1 and 2

Chair: Manuel Spitschan

REPRODUCIBILITY, DATA SHARING AND OPEN SCIENCE

Speaker: Manuel Spitschan

2:00 p.m. - 4:00 p.m.

PANEL DISCUSSION: TRANSLATING CHRONOBIOLOGY TO THE CLINIC

Amelia 3 and 4

Chair: Carla Finkielstein

PATHWAYS TO PRIORITIZATION: AN NIH PERSPECTIVE

Speaker: Marishka Brown

BUILDING CIRCADIAN MEDICINE IN A HOSPITAL

Speaker: John Hogenesch

2:00 p.m. - 4:00 p.m.

GORDON RESEARCH CONFERENCE TALKS

Cumberland Ballroom

Chair: Samer Hattar

CONNECTOMIC ANALYSIS OF THE DROSOPHILA LATERAL NEURON CLOCK CELLS REVEALS THE SYNAPTIC BASIS OF FUNCTIONAL PACEMAKER CLASSES

Speaker: Maria de la Paz Fernandez

IPRGC CIRCUITS MODULATING VISUAL THREAT ANTICIPATION

Speaker: Tiffany Schmidt

INS AND OUTS OF CIRCADIAN TIME

Speaker: Jeff Jones

MECHANISTIC INSIGHTS UNDERLYING CLOCK DISRUPTION IN COLORECTAL CANCER

Speaker: Selma Masri

4:00 p.m. - 4:30 p.m.

COFFEE BREAK - PLEASE VISIT THE EXHIBITORS AND POSTERS!

Amelia Foyer

Monday, May 16, 2022

4:30 p.m. - 7:00 p.m.

SYMPOSIUM 7: CLOCK-OMICS

Amelia 1 and 2

Chair: Katharine Abruzzi

TOWARD A NETWORK UNDERSTANDING OF CIRCADIAN GENE REGULATION

Speaker: Rosemary Braun

DISSECTING THE CENTRAL NEURAL CIRCUIT OF CIRCADIAN CLOCK

Speaker: Jun Yan

CIRCADIAN PHENOTYPING OF HUMANS USING OMICS APPROACHES

Speaker: Bharath Ananthasubramaniam

SEX-DIMORPHIC AND AGE-DEPENDENT CIRCADIAN GENE EXPRESSION

Speaker: Cédric Gobet

4:30 p.m. - 7:00 p.m.

SYMPOSIUM 8: LIGHT AT NIGHT: IN AND OUT OF THE WILD

Amelia 3 and 4

Chair: Carolina Escobar Co-Chair: Andries Kalsbeek

ILLUMINATED RHYTHMS - IMPACT OF ARTIFICIAL LIGHT AT NIGHT ON THE TEMPORAL ORGANIZATION OF BIRD ACTIVITY

Speaker: Kamiel Spoelstra

BRIGHTEN UP YOUR CIRCADIAN CLOCK: IMPACT OF DAYTIME LIGHT INTENSITY ON ANIMAL BEHAVIOUR AND CLOCK FUNCTION

Soeaker: Beatriz Bano-Otalora

HUMAN EVENING LIGHT EXPOSURE IN THE REAL WORLD USING A NEW WEARABLE

Speaker: Sean Cain

EFFECTS OF PRE-SLEEP ARTIFICIAL LIGHT EXPOSURE ON SLEEP

Speaker: Christine Blume

Monday, May 16, 2022

4:30 p.m. - 7:00 p.m.

SYMPOSIUM 9: TIME-RESTRICTED EATING/FEEDING AS AN INTERVENTION FOR CHRONIC DISEASE

Cumberland Ballroom

Chair: Emily Manoogian

TIME-RESTRICTED FEEDING AND CIRCADIAN-MEDIATED INTERVENTION OF CARDIOMETABOLIC DISORDERS

Speaker: Girish Melkani

FEEDING TIME REGULATES LONGEVITY IN MICE

Speaker: Victoria Acosta-Rodríguez

THE MICROBIOME AND TIME: UNDERSTANDING THE MICROBIOME-CIRCADIAN RELATIONSHIP

Speaker: Amir Zarrinpar

EFFECTS OF TIME-RESTRICTED EATING ON GLYCEMIC CONTROL, WEIGHT LOSS, AND CARDIOMETABOLIC HEALTH

Speaker: Courtney Peterson

7:00 p.m. - 9:00 p.m.

DINNER ON OWN AND FREE TIME

9:00 p.m. - 10:30 p.m.

POSTER SESSION 2

Magnolia Ballroom

Tuesday, May 17, 2022

8:00 a.m. - 6:30 p.m.

REGISTRATION

Amelia Foyer

8:00 a.m. - 10:30 p.m.

NURSING MOTHERS' ROOM

Conference 1

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 10: CIRCADIAN RHYTHMS IN BACTERIA AND MICROBIOMES

Amelia 1 and 2

Chair: Carl Johnson

SCINTILLA OF CIRCADIAN EVOLUTION: CLOCKS IN BACTERIA. INTRODUCTION

Speaker: Carl Johnson

MOLECULAR ASPECTS OF BIOLOGICAL CLOCK EVOLUTION INSPIRED BY THE EXAMPLE OF CYANOBACTERIA

Speaker: Shuji Akiyama

MECHANICAL CLOCK MODEL FOR CYANOBACTERIAL CIRCADIAN CLOCK, BASED ON THE ACTIVITIES OF TWO ATPASE

DOMAINS IN KAIC

Speaker: Kumiko Ito-Miwa

THE CIRCADIAN CLOCK IN BACILLUS SUBTILIS

Speaker: Martha Merrow

SCINTILLA OF CIRCADIAN EVOLUTION: CLOCKS IN MICROBIOMES

Speaker: Carl Johnson

9:00 am - 11:30 am

SYMPOSIUM 11: RHYTHMS IN THE TIME OF COVID-19

Amelia 3 and 4

Chair: Sheeba Vasu

EFFECT OF THE COVID-19 LOCKDOWN ON ASTHMA BIOLOGICAL RHYTHMS

Speaker: Guy Hazan

IMPORTANCE OF CHRONOBIOLOGY IN DEVELOPING PRECISION HEALTHAI

Speaker: Benjamin Smarr

SLEEP IN THE AGE OF COVID-19: COLLEGE STUDENTS INTERNAL AND SOCIAL TIMES ARE BETTER ALIGNED UNDER STAY-AT-HOME

MANDATES

Speaker: Alicia Rice

Tuesday, May 17, 2022

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 11: RHYTHMS IN THE TIME OF COVID-19

Amelia 3 and 4

Chair: Sheeba Vasu

THE COVID-19 LOCK DOWN AFFECTED DAILY HABITS FAVORING BODY WEIGHT GAIN AND MOOD DISTURBANCES

Speaker: Natalí N Guerrero-Vargas

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 12: CIRCADIAN DISRUPTION AND PSYCHIATRIC DISORDERS

Cumberland Ballroom

Chair: Ruifeng Cao

SHINNING LIGHT INTO A DIURNAL BRAIN

Speaker: Lily Yan

CIRCADIAN REGULATION OF NEUROIMMUNE FUNCTION: IMPLICATIONS FOR MODD RELATED DISORDERS

Speaker: Laura Fonken

DEVELOPMENTAL EMERGENCE OF SLEEP RHYTHMS ENABLES FORMATION OF ENDURING MEMORIES

Speaker: Matthew Kayser

CIRCADIAN/ULTRADIAN RHYTHMS AND THE BIOLOGY OF PSYCHIATRIC DISORDERS

Speaker: Colleen McClung

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 4

Amelia 1 and 2

Chair: Deniz Top

MEALTIME REGULATES TIME-OF-DAY PHYSIOLOGY THROUGH RHYTHMIC PROTEIN O- GLCNACYLATION

Presenter: Xianhui Liu

CIRCADIAN RHYTHMS IN THE FETUS AND THE PLACENTA DEVELOP AND SYNCHRONIZE DURING GESTATION

Presenter: Keenan Bates

CIRCADIAN RHYTHMS OF CORE BODY TEMPERATURE AND MELATONIN IN POSTMENOPAUSAL WOMEN

Presenter: Diane R. Rnivin

Tuesday, May 17, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 4

Amelia 1 and 2

Chair: Deniz Top

CIRCADIAN RHYTHM INFLUENCE ON ATOPIC DERMATITIS AND SKIN INFLAMMATION

Presenter: Mei Bigliardi-Ol

THE INFLUENCE OF LIGHT EXPOSURE AND PHYSICAL ACTIVITY IN THE TIMING AND DURATION OF SLEEP: INSIGHTS

FROM A TWO-SHIFT NATURAL MODEL OF DANCE STUDENTS

Presenter: Ignacio Estevan

A MOLECULAR TIMETABLE OF THE CELLULAR CIRCADIAN CYCLE REVEALS HOW TO RESET THE BODY CLOCK

Presenter: Nina Rzechorzek

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 5

Amelia 3 and 4

Chair: Ron Anafi

REAL-TIME ANOMALY DETECTION IN CIRCADIAN TIME-SERIES DATA USING KALMAN FILTER

Presenter: Dae Wook Kim

SEARCHING FOR NOVEL SCN ENHANCER MARKS THAT COULD DRIVE DAILY TIMEKEEPING

Presenter: Akanksha Bafna

DIURNAL TRANSCRIPTOME LANDSCAPE OF A MULTI-TISSUE RESPONSE TO TIME RESTRICTED FEEDING (TRF) IN MAMMALS

Presenter: Shaunak Denta

LIMORHYDE2: GENOMIC ANALYSIS OF BIOLOGICAL RHYTHMS FOCUSED ON EFFECT SIZES

Presenter: Dora Obodo

RHYTHMIC TRANSCRIPTOME NETWORK AND A SIGNIFICANT CONNECTION BETWEEN THE RHYTHMIC TRANSCRIPTOME AND

AUTISM SPECTRUM DISORDER IN NEURONS

Presenter: Chang Hoon Lee

INTEGRATIVE MODELLING OF SLEEP, PHYSICAL ACTIVITY, AND CIRCADIAN RHYTHMICITY WITH APPLICATIONS IN AGING AND MODD DISORDERS

Presenter: Vadim Zipunnikov

Tuesday, May 17, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 6

Cumberland Ballroom
Chair: Shihoko Kojima

CELLULAR BASES OF THE COUPLING BETWEEN CLOCKS IN THE CIRCADIAN CONTROL OF ADULT EMERGENCE IN DROSOPHILA MELANDGASTER

Presenter: Javier Cavieres-Lepe

RECONSTITUTION OF THE CYANOBACTERIAL CLOCK UNCOVERS A ROLE FOR SASA IN KAIB RECRUITMENT

Presenter: Jeff Swan

CIRCADIAN REGULATION OF PROTEIN HOMEOSTASIS

Presenter: Estere Seinkmane

THE PER2 FASP REGION FEEDBACK REGULATES CKI ACTIVITY TO CONTROL CIRCADIAN PERIOD

Presenter: Jonathan Philpott

IS CRYPTOCHROME 1 A STATE VARIABLE OF THE MAMMALIAN CIRCADIAN CLOCK: EVIDENCE FROM TRANSLATIONAL SWITCHING IN

THE SCN

Presenter: David McManus

LIVE-CELL IMAGING OF CIRCADIAN CLOCK PROTEIN DYNAMICS IN CRISPR-GENERATED KNOCK-IN CELLS

Presenter: Achim Kramer

1:30 p.m. - 2:00 p.m.

WORKING LUNCH - LUNCH PROVIDED BY SRBR!

Magnolia and Amelia Foyers

2:00 p.m. - 4:30 p.m.

SYMPOSIUM 13: ENTRAINMENT OF A MULTI-OSCILLATOR MULTI-LEVEL CIRCADIAN SYSTEM

Amelia 1 and 2

Chair: Gisele Oda

REALTIME CIRCADIAN MEASUREMENT IN THOUSANDS OF HUMANS SHOWS MULTI- OSCILLATOR AND MULTI-LEVEL BEHAVIOR

Speaker: Daniel Forger

USING MATHEMATICAL MODELING TO UNDERSTAND THE ROLE OF AVP CELLS IN THE SCN

Speaker: Stephanie Taylor

Tuesday, May 17, 2022

2:00 p.m. - 4:30 p.m.

SYMPOSIUM 13: ENTRAINMENT OF A MULTI-OSCILLATOR MULTI-LEVEL CIRCADIAN SYSTEM

Amelia 1 and 2

Chair: Gisele Oda

PRINCIPLES OF PHOTIC AND NON-PHOTIC ENTRAINMENT IN NOCTURNAL AND DIURNAL ANIMALS

Speaker: Erik Herzog

NETWORK MEMORY OF THE CIRCADIAN CLOCK

Speaker: Jihwan Myung

2:00 p.m. - 4:30 p.m.

SYMPOSIUM 14: LET THERE BE LIGHT: ADOLESCENTS' CHRONOBIOLOGY AND THE ENVIRONMENT BEYOND SCHOOL START TIME

Amelia 3 and 4

Chair: Reut Gruber

IS THE MOON KEEPING ADDLESCENTS AWAKE

Speaker: Horacio de la Iglesia

ASSOCIATION OF OUTDOOR ARTIFICIAL LIGHT AT NIGHT WITH MENTAL DISORDERS AND SLEEP PATTERNS AMONG US ADOLESCENTS

Speaker: Kathleen Merikangas

CHRONOTYPE, LIGHT EXPOSURE, AND SLEEP IN HIGH SCHOOL STUDENTS: SCHOOL SHIFTS AND REMOTE SCHOOLING

Speaker: Ana Silva

REGULATION OF SLEEP TIMING IN ADDLESCENTS BY SLEEP HOMEOSTASIS, CIRCADIAN RHYTHMICITY, LIGHT CONSUMPTION AND SOCIAL CONSTRAINTS

Speaker: Derk Jan Dijk

2:00 p.m. - 4:30 p.m.

Cumberland Ballroom

SYMPOSIUM 15: RETINAL CIRCADIAN CLOCKS

Chair: Ethan Buhr

THE RETINAL CIRCADIAN CLOCK SYSTEM MODULATES RETINAL FUNCTIONS AND CONE PHOTORECEPTORS VIABILITY DURING AGING

Speaker: Gianluca Tosini

MAPPING "IN TIME" THE DAILY RHYTHMIC TRANSCRIPTOME IN THE DIABETIC RETINA

Speaker: Eleni Beli

Tuesday, May 17, 2022

2:00 p.m. - 4:30 p.m.

SYMPOSIUM 15: RETINAL CIRCADIAN CLOCKS

Cumberland Ballroom

Chair: Ethan Buhr

DOPAMINE DESYNCHRONIZES THE RETINAL CLOCK DURING DEVELOPMENT THROUGH A MELANOPSIN-DEPENDENT REGULATION OF ACETYLCHOLINE RETINAL WAVES

Speaker: Ouria Okhissi-Benyahya

LOCAL NEURONAL CLOCK REGULATES RETINAL ANGIOGENESIS DURING DEVELOPMENT AND IN ISCHEMIC RETINOPATHY

Speaker: Sujata Rao

4:30 p.m. - 5:00 p.m.

COFFEE BREAK - PLEASE VISIT THE EXHIBITORS AND POSTERS!

Amelia Foyer

5:00 p.m. - 6:30 p.m.

SPECIAL SESSION: A TOAST: CELEBRATING 50 YEARS OF THE SCN AND CLOCK GENES

Amelia 1 and 2

Chair: William Schwartz Speaker: Johanna Meijer Speaker: Marco Brancaccio Speaker: Paul Hardin Speaker: Joanna Chiu

Speaker: Jennifer Hurley

5:00 p.m. - 7:00 p.m.

WORKSHOP AND PANEL: HOW TO ASSESS CIRCADIAN RHYTHMICITY IN THE FIELD AND IN DISEASED POPULATIONS

Chair: Sara Montagnese

PRACTICE PRINCIPLES FOR REAL-WORD CIRCADIAN PHASE ASSESSMENTS

Speaker: Steven Lockley

MINIMUM REQUIREMENTS FOR CIRCADIAN ASSESSMENT IN THE FIELD/AT HOME

Speaker: Kenneth Wright

A CIRCADIAN CLINIC: DEFINITION, ACCESS AND PRESCRIPTIONS

Speaker: Phyllis Zee

Tuesday, May 17, 2022

5:00 p.m. - 7:00 p.m.

WORKSHOP AND PANEL: HOW TO ASSESS CIRCADIAN RHYTHMICITY IN THE FIELD AND IN DISEASED POPULATIONS

Chair: Sara Montagnese

MINIMUM REQUIREMENTS FOR CIRCADIAN ASSESSMENT IN OUTPATIENTS

Speaker: Ron Anafi

MINIMUM REQUIREMENTS FOR CIRCADIAN ASSESSMENT IN INPATIENTS AND CONSIDERATIONS ON TREATMENT ROUNDS TIMING

Speaker: Marc Ruben

MINIMUM REQUIREMENTS (LENGTH OF MEASUREMENT, ENVIRONMENTAL CONDITIONS ETC.) FOR WEARABLES (ACTIGRAPHS,

TEMPERATURE SENSORS ETC.) IN PATIENTS

Speaker: Carsten Skarke

5:00 p.m. - 7:00 p.m.

SRBR GLOBAL CLOCK SERIES HIGHLIGHTS

Cumberland Ballroom

Chair: Josh Mouland

A ROLE FOR GENE EXPRESSION AND MRNA STABILITY IN NUTRITIONAL COMPENSATION OF THE CIRCADIAN CLOCK

Presenter: Christina Kelliher

CIRCADIAN DESYNCHRONIZATION DISRUPTS INFORMATION THROUGHPUT IN THE PREFRONTAL CORTEX

Presenter: Brandon Roberts

THE INTERACTION BETWEEN CIRCADIAN DISRUPTION AND NEURODEVELOPMENTAL DISORDERS

Presenter: Tara Delorme

CELLULAR BASES OF THE COUPLING BETWEEN CLOCKS IN THE CIRCADIAN CONTROL OF ADULT EMERGENCE IN DROSOPHILA MELANDGASTER

Presenter: Javier Cavieres

7:00 p.m. - 9:00 p.m.

DINNER ON OWN and FREE TIME

9:00 p.m. - 10:30 p.m.

POSTER SESSION 3

Magnolia Ballroom

Wednesday, May 18, 2022

8:00 a.m. - 1:30 p.m. REGISTRATION

Amelia Foyer

8:00 a.m. - 5:00 p.m.

NURSING MOTHERS' ROOM

Conference 1

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 16: MECHANISMS OF CIRCADIAN POST-TRANSCRIPTIONAL REGULATION

Amelia 1 and 2

Chair: Dmitri Nusinow

Co-Chair: Jennifer Hurley

SYNTHETIC SMALL MOLECULES MODULATING PLANT CIRCADIAN CLOCK

Speaker: Norihito Nakamichi

MAPPING SUBCELLULAR LOCALIZATION AND DYNAMICS OF CLOCK COMPLEXES IN LIVE CLOCK NEURONS

Speaker: Swathi Yadlapalli

ISDEDRM-SPECIFIC REGIILATION DE RHYTHMIC GENE EXPRESSION BY ALTERNATIVE POLYADENYLATION

Speaker: Jerome Menet

THE FORMATION OF A FUZZY COMPLEX IN THE NEGATIVE ARM REGULATES CIRCADIAN CLOCK ROBUSTNESS.

Speaker: Jennifer Hurley

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 17: SRS/SRBR SYMPOSIUM: MATHEMATICAL MODELING OF SLEEP AND CIRCADIAN RHYTHMS Amelia 3 and 4

Chair: Elizabeth Klerman Co-Chair: Michael Rempe

MODELING CIRCADIAN MODULATION OF DOPAMINE LEVELS TO UNDERSTAND IMPLICATIONS FOR HEALTH AND NEURODEGENERATIVE DISEASE

Speaker: Janet Best

MATHEMATICAL MODELING OF RODENT SLEEP IN A SIMULATED SHIFTWORK PARADIGM

Speaker: Michael Rempe

Wednesday, May 18, 2022

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 17: SRS/SRBR SYMPOSIUM: MATHEMATICAL MODELING OF SLEEP AND CIRCADIAN RHYTHMS Amelia 3 and 4

Chair: Elizabeth Klerman Co-Chair: Michael Rempe

PREDICTING RECOVERY FROM ACUTE SLEEP LOSS IN HUMANS: A MODELING STUDY

Speaker: Victoria Booth

PERSONALIZED MATHEMATICAL MODELS FOR HUMAN SLEEP AND CIRCADIAN TIMING FOR THE DESIGN OF LIGHT INTERVENTIONS

Speaker: Anne Skeldon

9:00 a.m. - 11:30 a.m.

SYMPOSIUM 18: SARS COV-2 VIRAL BIOLOGY AND THE CIRCADIAN CLOCK

Cumberland Ballroom

Chair: Carla Finkielstein

CIRCADIAN IMMUNITY, SUNRISE TIME AND THE SEASONALITY OF RESPIRATORY INFECTIONS

Speaker: Robert Martienssen

THE CIRCADIAN CLOCK COMPONENT BMALI REGULATES SARS-COV-2 ENTRY AND REPLICATION IN LUNG EPITHELIAL CELLS

Speaker: Alan Xiaodong Zhuang

CIRCADIAN RHYTHMS IN CORONAVIRAL DISEASE

Speaker: Jeffrey Haspel

TRENDS IN CIRCADIAN MARKERS FROM REAL-WORLD WEARABLE DATA IN RESPONSE TO THE COVID-19 PANDEMIC

Speaker: Caleb Mayer

11:30 a.m. - 12:00 p.m.

COFFEE BREAK - PLEASE VISIT THE EXHIBITORS AND POSTERS!

11:30 a.m. - 12:00 p.m.

MEET THE PROFESSORS

Magnolia Garden and Terrace

Wednesday, May 18, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 7

Amelia 1 and 2

Chair: Ryan Logan

CIRCADIAN DISRUPTION ENHANCES HSFI SIGNALING AND TUMORIGENESIS IN KRAS-

DRIVEN LUNG CANCER

Presenter: Marie Pariollaud

TIME-OF-DAY DOSING AFFECTS BLOOD PRESSURE COMPLICATIONS IN AXITINIB-TREATED MICE

Presenter: Jiffin Paulose

AN ACIDIC MICROENVIRONMENT DISRUPTS MACROPHAGE MOLECULAR CLOCK FUNCTION AND OUTPUT, WHICH MAY IMPACT

TUMOR GROWTH

Presenter: Amelia Knudsen-Clark

CIRCADIAN MODULATION OF HIPPOCAMPAL FUNCTION DURING ALZHEIMER'S DISEASE

PATHOGENESIS

Presenter: Geraldine Kress

VARIATIONS IN REST-ACTIVITY CYCLE LENGTHS AND ALZHEIMER'S DEMENTIA

Presenter: Chenlu Gao

THE ULTRADIAN TRANSCRIPTOME OF THE HUMAN DORSOLATERAL PREFRONTAL CORTEX AND ABNORMALITIES IN

SCHIZOPHRENIA

Presenter: Madeline Scott

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 8

Amelia 3 and 4

Chair: Jacqurine Kimmey

DISRUPTION OF CIRCADIAN RHYTHMS USING AN ULTRADIAN LIGHT-DARK CYCLE DURING NEURODEVELOPMENT LEADS TO AUTISTIC-LIKE MOLECULAR AND BEHAVIORAL ALTERATIONS IN ADULT MICE

Presenter: Rubal Singla

THE INTERACTION BETWEEN CIRCADIAN DISRUPTION AND PRENATAL IMMUNE ACTIVATION IN MICE — IMPLICATIONS FOR NEURODEVELOPMENTAL DISORDERS

Presenter: Tara Delorme

CIRCADIAN CONTROL OF HEPARAN SULFATE LEVELS TIMES MACROPHAGE PHAGOCYTOSIS OF AMYLOID BETA AGGREGATES

Presenter: Gretchen Clark

CAN VOLUNTARY WHEEL RUNNING EXERCISE SHIFT THE MUSCLE CLOCK?

Presenter: Andries Kalsbeek

Wednesday, May 18, 2022

12:00 p.m. - 1:30 p.m. SLIDE SESSION 8

Amelia 3 and 4

Chair: Jacqurine Kimmey

THE ROLE OF NEUROFIBROMIN-1 IN SLEEP AND METABOLISM

Presenter: Folasade Sofela

SOLID-STATE DYNAMIC LIGHTING REDUCES FALL RATES IN ELDERLY CARE HOME RESIDENTS

Presenter: Leilah Grant

12:00 p.m. - 1:30 p.m.

SLIDE SESSION 9

Cumberland Ballroom

Chair: Han Kyong Choe

IMPACT OF POSTNATAL LIGHT CONDITIONS ON DEVELOPMENT AND LATER LIFE HEALTH

Presenter: Demy van Gilst

ACETYLATION: A MODEST MODIFICATION WITH POWERFUL CONTROL OVER PER2 FASP PHOSPHORYLATION

Presenter: Megan Torgrimson

A ROLE FOR THE THERMOSENSITIVE SPLICING OF TIMELESS IN TEMPERATURE COMPENSATION

Presenter: Ane Martin Anduaga

A CELLULAR BASIS OF DIURNALITY

Presenter: Andrew Reale

EXCESS S-ADENOSYLMETHIONINE INHIBITS METHYLATION VIA CATABOLISM TO ADENINE

Presenter: Jean-Michel Fustin

A SEMI-SYNTHETIC CIRCADIAN OSCILLATOR REVEALS THE EMERGENCE OF A "LIGHTS ON TIMER" BEHAVIOR

Presenter: Luis Larrondo

1:30 p.m. - 3:30 p.m.

SRBR BOARD MEETING (INVITE ONLY)

Talhot

1:30 p.m. - 4:00 p.m.

LUNCH BREAK ON OWN AND FREE TIME

Wednesday, May 18, 2022

4:00 p.m. - 5:00 p.m. General meeting of the members

Cumberland Ballroom

* Open to SRBR Members Only

5:00 p.m. - 6:00 p.m.

PITTENDRIGH/ASCHOFF LECTURE: THE CLOCK NETWORK IN THE BRAIN - INSIGHTS FROM INSECTS

Amelia Ballroom

Speaker: Charlotte Helfrich-Förster

6:00 p.m. - 6:30 p.m.

COCKTAIL HOUR

Magnolia Foyer

6:30 p.m. - 10:30 p.m.

CLOSING BANQUET AND AWARD CEREMONY

Magnolia Ballroom

S1. CLINICAL TRANSLATION OF CIRCADIAN ENTRAINMENT AND HEALTH ACROSS THE LIFESPAN

Presenter: Philip Cheng

S2. THE EFFECT OF TIMING OF MEDICATION ADMINISTRATION ON URINE OUTPUT IN HOSPITALIZED PATIENTS

Presenter: Sara Abbaspour

S3. TUMOR CELL-INTRINSIC FACTORS ARE ASSOCIATED WITH CIRCADIAN HETEROGENEITY IN A MOUSE MODEL OF PANCREATIC ADENOCARCINOMA

Presenter: Daniel lascone

S4. INVESTIGATING CIRCADIAN CLOCK GENES IN CANCER AND THEIR CORRELATION WITH SENSITIVITY TO CHEMOTHERAPEUTIC DRUGS

Presenter: Pauline van der Watt

S5. DISRUPTION OF THE CIRCADIAN CLOCK DRIVES APC LOSS OF HETEROZYGOSITY TO ACCELERATE COLORECTAL CANCER Presenter: Bridget Fortin

S6. INVESTIGATING THE CIRCADIAN RHYTHMS AND EFFECTS OF CRYPTOCHROME-STABILIZING COMPOUND IN HUMAN PANCREATIC CANCER CELLS

Presenter: Pagkapol Yhew Pongsawakul

S7. TIME-RESTRICTED FEEDING (TRF) REPROGRAMS MICROGLIAL DAY-NIGHT IMMUNITY IN THE HYPOTHALAMUS Presenter: Andries Kalsbeek

SB. CLUSTER HEADACHE AS A CIRCADIAN DISORDER: DELINEATING CIRCADIAN PATHWAYS IN THE TRIGEMINAL PAIN SYSTEM Presenter: Chorong Han

S9. GLUCOCORTICOID SIGNALING SYNCHRONIZES TUMOR AND HOST CIRCADIAN RHYTHMS AND PROMOTES TUMOR GROWTH IN AN ORTHOTOPIC MURINE MODEL OF GLIOBLASTOMA

Presenter: Maria Gonzalez

SID. SERUM PROTEOMICS ANALYSIS IN TIME-DEPENDENT SEPTIC PROGNOSIS IN MICE

Presenter: Malena Mul Fedele

S11. VIDEOCONFERENCE-DELIVERED GROUP COGNITIVE BEHAVIORAL THERAPY PLUS MORNING SHORT-WAVELENGTH, WEARABLE LIGHT THERAPY IN ADOLESCENTS WITH DELAYED SLEEP WAKE PHASE DISORDER DURING COVID-19: A PILOT CASE SERIES Presenter: Emily Ricketts

S12. CIRCADIAN DISRUPTION IN SKELETAL MUSCLE OF BMALI KNOCKOUT MICE ALTERS A MITOCHONDRIAL DYNAMICS GENE Program

Presenter: Silvana Sidhom

S13. CIRCADIAN REGULATION OF IN VITRO THERMOGENIC ADIPOCYTES

Presenter: Armina-Lvn Frederick

S14. DIURNAL VARIATION AND SEX EFFECTS IN HIPPOCAMPAL NEUROPHYSIOLOGY AND SPATIAL MEMORY

Presenter: Lacy Goode

S15. THE CIRCADIAN DISTRIBUTION OF EPILEPTIC SPIKE SOURCE LOCALIZATIONS

Presenter: Marcus Na

SIG. EVENING CHRONOTYPE IS ASSOCIATED WITH A HIGHER SEVERITY OF DEPRESSIVE SYMPTOMS IN THE IMMEDIATE POSTPARTUM PERIOD

Presenter: Corrado Garbazza

S17. SLEEP DURATION AND TIME AWAKE IN AIRLINE PILOTS

Presenter: Diane B. Boivin

SI9. ACTIVITY MEASURES FROM CONSUMER DEVICES: USING THE APPLE WATCH FOR RESEARCH-GRADE ACTIGRAPHY

Presenter: Kevin Hannay

S20. DUPER IS A NULL MUTATION OF CRYPTOCHROME 1 IN SYRIAN HAMSTERS

Presenter: Yin Yeng Lee

S21. CIRCADIAN BEHAVIOR AS AN AGENT OF SELECTION IN THE GUT AND ITS INFLUENCE IN THE RECOVERY OF THE MICROBIOME FROM ANTIBIOTICS

Presenter: Chi Zhao

S22. DECIPHERING CLOCK CELL NETWORK MORPHOLOGY WITHIN THE SUPRACHIASMATIC NUCLEUS

Presenter: Hyun Kim

S23. CIRCADIAN POST-TRANSCRIPTIONAL CONTROL IN MACROPHAGES

Presenter: Sharleen Buel

S24. SORTING THE CLOCK: GENOME-WIDE CRISPR SCREEN OF CIRCADIAN REGULATORS

Presenter: Shuzhang Yang

S25. PERFORMANCE OF A DEEP LEARNING-BASED SLEEP-STAGING ALGORITHM ACROSS THE OVERNIGHT PERIOD AND TRANSITIONAL EPOCHS

Presenter: Shahab Haghayegh

S26. ASSOCIATION OF MODEL-PREDICTED CIRCADIAN AMPLITUDE WITH MELATONIN AREA UNDER THE CURVE IN SHIFT WORKERS

Presenter: Olivia Walch

S27. THE DROSOPHILA CLOCK REGULATES ECDYSONE ACTION TO CONTROL THE DAILY RHYTHM OF ADULT EMERGENCE

Presenter: Liliana Bustos

S28. DIEL AND ANNUAL TIMEKEEPING MECHANISMS MAY CONSTRAIN SPECIES RANGE-SHIFTS UNDER CLIMATE CHANGE

Presenter: Nicholas Per Huffeldt

S29. UNAVOIDABLE CALORIC RESTRICTION DURING RESTRICTED FOOD ACCESS IN BALB/CJ MICE

Presenter: George Afoakwah

S30. A POSSIBLE MOLECULAR BASIS FOR CIRCATIDAL RHYTHMICITY IN EURYDICE PULCHRA

Presenter: David Wilcockson

S31. WHAT CAN DROSOPHILA POPULATIONS EVOLVING UNDER TROPICAL SEMI-NATURAL CONDITIONS TELL US ABOUT CIRCADIAN CLOCKS?

Presenter: Sheeba Vasu

S32. SLEEP AND CIRCADIAN CHARACTERISTICS RELATED TO INCIDENTS REPORTED BY MEDICAL RESIDENTS

Presenter: Malena Mul Fedele

S33. DAILY RHYTHM OF DYNAMIC CEREBRAL AUTOREGULATION IN PATIENTS AFTER ACUTE ISCHEMIC STROKE

Presenter: Daniel Abadjiev

S34. EFFECTS OF COMPROMISED CIRCADIAN RHYTHM ON THE INCIDENCE AND DEVELOPMENT OF LUNG CANCER

Presenter: Elisabeth Anne Adanma Obara

S35. MACHINE LEARNING ANALYSES REVEAL CIRCADIAN CLOCK FEATURES PREDICTIVE OF ANXIETY IN HUMANS

Presenter: Krista Ingram

S36. MORNINGNESS-EVENINGNESS BY RACE-SEX: THE CARDIA SLEEP STUDY

Presenter: Kristen Knutson

S37. CIRCADIAN CLOCK GENE AMPLITUDE IS LINKED TO FAT STORES IN MESENCHYMAL STEM CELLS FROM HUMAN INFANTS

Presenter: Melissa Erickson

S38. PREDICTING CIRCADIAN RHYTHMS FROM WRIST-WORN WEARABLE SENSORS

Presenter: Lara Weed

S39. DIURNAL DIFFERENCES IN HIPPOCAMPAL PHYSIOLOGY ARE LOST IN A MOUSE MODEL OF ALZHEIMER'S DISEASE *Presenter:*

Jacob Reeves

S4D. SKELETAL MUSCLE CLOCKS INFLUENCE COGNITIVE IMPAIRMENT IN TAUDPATHY MODEL

Presenter: Bryan Alava

S41. DIURNAL ALTERATIONS IN GENE EXPRESSION ACROSS STRIATAL SUBREGIONS IN PSYCHOSIS

Presenter: Kyle Ketchesin

S42. DEGREE OF PERCEIVED EXERTION DURING A DYNAMIC HAND GRIP EXERCISE IS REGULATED BY THE CIRCADIAN SYSTEM

Presenter: LaTroy Robinson

S43. MANIPULATION OF CIRCADIAN PROCESS C BY SELECTIVE THERMAL STIMULATION TO INDUCE AND MAINTAIN SLEEP AND REGULATE SLEEP-WAKE 24H RHYTHM

Presenter: Shahab Haghayegh

S44. AN OBSERVATIONAL STUDY TO INVESTIGATE CRYLVARIANTS ASSOCIATED WITH FAMILIAL DELAYED SLEEP-WAKE PATTERNS

Presenter: Sandra Smieszek

S45. THE SPECTRAL SENSITIVITY OF HUMAN CIRCADIAN PHASE RESETTING AND MELATONIN SUPPRESSION TO LIGHT CHANGES DYNAMICALLY WITH LIGHT DURATION

Presenter: Steven Lockley

S46. S-CONE SIGNALS PROMOTE EXPLORATORY BEHAVIOUR IN MICE

Presenter: Elizabeth Tamayo

S47. CHRONIC JETLAG ACCELERATES AMYLOID PLAQUE PATHOLOGY IN ALZHEIMER'S DISEASE MOUSE MODELS

Presenter: Ashish Sharma

S48. ENVIRONMENTAL CIRCADIAN DISRUPTION MODULATES RETINAL FUNCTION AND CELL STRUCTURE IN MICE

Presenter: Kenkichi Baba

S49. MEASURING EFFECTS OF LIGHT EXPOSURE ON ACTIVITY, SLEEP AND HUMAN PERFORMANCE

Presenter: Altug Didikoglu

S50. HIGH SALT DIET ALTERS CIRCADIAN BEHAVIOR AND SUPRACHIASMATIC NEUROPHYSIOLOGY: IMPLICATIONS FOR ENDOTHELIN B RECEPTOR FUNCTION IN THE BRAIN

Presenter: Anna Flam

S51. CHARACTERIZING THE RHYTHMIC EXPRESSION OF FGFR1 AND KLB IN THE SUPRACHIASMATIC NUCLEUS

Presenter: Emily Welch

S52. SEROTONERGIC MODULATION OF CIRCADIAN RHYTHMS

Presenter: Anfal Abuhilal

S53. CONTEXTUAL FEAR MEMORY REESTABLISHES ABNORMAL CIRCADIAN BEHAVIOR IN MICE

Presenter: Asad Beck

S54. IMPACTS OF SPACEFLIGHT AND STRAIN ON CIRCADIAN BEHAVIORS IN MICE

Presenter: Katrina Campbell

S55. CRY 'HAVOC,' AND LET SLIP THE PHASE OF CLOCKS!

Presenter: Eric Bittman

S56. PHENOTYPE OF LIGHT ACTIVATED NEURONS IN THE MOUSE SCN BASED ON THE EXPRESSION OF FOS AND EGRI

Presenter: Jens Hannibal

S57. APTAMER BASED NON-INVASIVE DETECTION OF BIOMARKERS LINKED TO CIRCADIAN RHYTHM SLEEP DISORDERS

Presenter: Meenakshi Pundir

S58. TOWARDS DEVELOPING A MOUSE MODEL FOR RELATIVE ENERGY DEFICIENCY IN SPORTS

Presenter: Laura van Rosmalen

S59. STRICT FEEDING REGIMES ABROGATE METABOLIC DYSFUNCTION CAUSED BY LIGHTING DISRUPTIONS

Presenter: Nathan Skinner

S60. SUPRACHIASMATIC VIP NEURONS CONTROL CIRCADIAN PRIORITY OF SOCIAL INSTINCTS

Presenter: Han Kyoung Choe

S61. SUBCIRCUITS WITHIN THE DROSOPHILA EVENING OSCILLATOR DIFFERENTIALLY REGULATE SLEEP, AROUSAL, AND CIRCADIAN AMPLITUDE

Presenter: Matthew Brown

S62. VASOACTIVE-INTESTINAL POLYPEPTIDE(VIP)-EXPRESSING NEURONS IN THE SUPRACHIASMATIC NUCLEUS COORDINATE PERI-DVULATORY REPRODUCTIVE AXIS ACTIVITY

Presenter: Savannah Bever

S63. ORIGINS OF COLDUR OPPONENT INPUT TO THE MOUSE SCN: A NON-CANONICAL CENTRAL MECHANISM?

Presenter: Josh Mouland

S64. CLOCK DISRUPTION IN MUTANT TDP-43 MOUSE EMBRYONIC FIBROBLASTS

Presenter: Sharon Tam

S65. DOPAMINERGIC NEURONS OF THE SUBSTANTIA NIGRA EXHIBIT A CELL INTRINSIC CLOCK AND SELECTIVE ABLATION OF THIS MOLECULAR CLOCK IMPACTS ELECTROPHYSIOLOGICAL OUTPUT

Presenter: Ananya Swaroop

SGG. THE EFFECT OF AMYLOID BETA VARIANTS ON SLEEP AND LONGEVITY IN DROSOPHILA

Presenter: Jaqueline Galvan

S67. DISRUPTIONS IN CIRCADIAN RHYTHMS AND SLEEP DURING ADOLESCENCE INDUCES CHANGES IN IMPULSIVITY, COGNITIVE FUNCTION. AND GENE EXPRESSION IN REWARD-RELATED BRAIN REGIONS

Presenter: Sam-Moon Kim

S68. TOWARDS THE NEURAL SUBSTRATE DRIVING CYCLICITY IN BIPOLAR DISORDER

Presenter: Kai-Florian Storch

S69. THE ESTROUS CYCLE COORDINATES THE DAILY EATING BEHAVIOR RHYTHM IN MICE

Presenter: Victoria Alvord

S70. SUPPLEMENTING SUB-OPTIMAL AMBIENT LIGHTING WITH A HIGH-MELANOPIC ILLUMINANCE TASK LAMP IMPROVES DAYTIME ALERTNESS, MODD AND COGNITION

Presenter: Leilah Grant

S71. VALIDATION OF THE DIGITAL VENTILATED CAGE SYSTEM FOR CIRCADIAN AND SLEEP PHENOTYPING Presenter: Selma Tir

S72. DIURNAL RHYTHMS IN PHOTIC SNEEZING

Presenter: Manuel Spitschan

S73. LIGHT-INDUCED EXPRESSION OF PROKINETICIN 2 IN THE MOUSE SCN: REGULATION BY PACAP?

Presenter: Ida Stangerup

S74. CIRCADIAN MODULATION OF VISUAL BEHAVIORS BY THE IPRGC MOLECULAR CLOCK

Presenter: Kayla Miguel

S75. A RETINAL REPRESENTATION OF ENVIRONMENTAL ILLUMINATION WITHIN THE MASTER CIRCADIAN CLOCK

Presenter: Charles H Philippe Morquette

S76. A SINGLE ATYPICAL PHOSPHOSWITCH IN SPECIFIC SCN NEURONS GATES WINTER SEASONALITY IN MICE

Presenter: Sara Pierre Ferrer

S77. THE PROTECTIVE ROLE OF SLEEP IN REGULATING CORTICAL RESPONSES TO SOCIAL STRESS

Presenter: Eva Andrews

S78. A NEW APPROACH TO STUDYING SLEEP HOMEOSTASIS IN DROSOPHILA

Presenter: Budhaditya Chowdhury

S79. MODULATION OF SLEEP BY TRAFFICKING OF LIPIDS THROUGH THE DROSOPHILA BLOOD BRAIN BARRIER

Presenter: Fu Li

SBD. SLEEP AND MEMORY CONSOLIDATION ARE LINKED BY RNA PROCESSING GENES IN THE DROSOPHILA MUSHROOM BODY

Presenter: Yongjun Li

S81. NFI FUNCTIONS IN GABA RECEPTOR NEURONS TO REGULATE SLEEP DEPTH IN DROSOPHILA

Presenter: Elizabeth Brown

S82. GENE EXPRESSION CHANGES UNDERLYING PHOTOPERIODIC PLASTICITY IN THE SUPRACHIASMATIC NUCLEUS

Presenter: Olivia Cox

S83. HEAD AND NECK CANCER PATHOGENESIS AND TREATMENT: EFFECTS OF THE CIRCADIAN CLOCK

Presenter: Rima Siauciunaite

S84. MISTIMED FEEDING DISRUPTS RHYTHMS OF REPRODUCTIVE BEHAVIOR AND OF THE PREDVULATORY LH SURGE

Presenter: Matthew Butler

S85. FUNCTIONAL OUTPUTS OF SUPRACHIASMATIC NUCLEUS TO CIRCADIAN RHYTHMICITIES

Presenter: Shota Miyazaki

S86. THE SKELETAL MUSCLE MOLECULAR CLOCK REGULATES MUSCLE STRUCTURE AND FUNCTION THROUGH THE RNA BINDING PROTEIN, RBM20

Presenter: Xiping Zhang

S87. BMALI AND CLOCK C-TERMINAL DOMAINS DRIVE CIRCADIAN OSCILLATIONS

Presenter: Kelly Healy

S88. STRUCTURAL INSIGHTS INTO THE CIRCADIAN RHYTHM

Presenter: Frik Petersen

S89. CHANGES IN CORE CLOCK NEGATIVE ARM PROTEINS REVEAL RELATIONSHIP BETWEEN CONFORMATION OF COMPLEXES AND POST-TRANSCRIPTIONALLY REGULATED PROTEINS

Presenter: Lucas Sutton

S90. BIDIRECTIONAL RELATIONSHIP BETWEEN THE CORE CLOCK AND IRON METABOLISM

Presenter: Jesse Jannski

S92. CLOCK AND TIMELESS PROMOTE RHYTHMIC BRAHMA BINDING TO CLOCK GENE PROMOTERS

Presenter: Christine Tabuloc

S93. SMALL MOLECULE SCREENING: PASSING THE BINDING TEST

Presenter: Diksha Sharma

S94. EMERGENCE OF CIRCADIAN RHYTHMS IN CLOCK AND NEUROIMMUNE GENE EXPRESSION IN MOUSE BRAIN

Presenter: Ruizhuo Chen

S95. A ROLE FOR GENE EXPRESSION AND MRNA STABILITY IN NUTRITIONAL COMPENSATION OF THE CIRCADIAN CLOCK

Presenter: Christina Kelliher

S96. COMBINED MULTIPLE TRANSCRIPTIONAL REPRESSION MECHANISMS GENERATE STRONG CIRCADIAN RHYTHMS

Presenter: Yun Min Song

S97. ROBUST OSCILLATIONS AGAINST SPATIAL-TEMPORAL NOISE FROM CROWDED INTRACELLULAR ENVIRONMENT

Presenter: Jae Kyoung Kim

S98. NOVEL MICROSCOPY TOOLS REVEAL DYNAMIC SUB-CELLULAR DISTRIBUTIONS OF CORE CLOCK COMPONENTS IN NEUROSPORA CRASSA

Presenter: Ziyan Wang

S99. THE PHOSPHO-CODE DETERMINING CIRCADIAN FEEDBACK LOOP CLOSURE AND OUTPUT IN NEUROSPORA

Presenter: Bin Wang

S100. GLUCOCORTICOID SIGNALING REGULATES PANCREATIC ISLET CIRCADIAN TRANSCRIPTOME AND INSULIN SECRETION

Presenter: Satish Sen

SIDI. CRYPTOCHROME I IS A MAJOR PHOTORECEPTOR IN THE ENTRAINMENT OF RHYTHMIC BEHAVIORS IN THE MONARCH BUTTERFLY

Presenter: Samantha liams

SID2. SYNCHRONIZATION OF THE DROSOPHILA CIRCADIAN CLOCK TO TEMPERATURE CYCLES

Presenter: Rebekah George

SIO3. MICROBIAL EXPOSURE RESETS CELLULAR CIRCADIAN RHYTHMICITY

Presenter: Priya Crosby

SID4. GENETIC IDENTIFICATION OF A PUTATIVE VTA TO SCN DOPAMINE CIRCUIT REQUIRED FOR DIET-INDUCED OBESITY IN MICE

Presenter: Firozeh Farahmand

S105. IDENTIFYING THE ROLE OF SIAH2 IN CIRCADIAN REGULATION BY SELECTIVELY RESTORING EXPRESSION IN METABOLIC TISSUES

Presenter: Kiandra Smith

SIDG. GUT MICROBES ARE ESSENTIAL FOR LIVER CIRCADIAN CLOCK-MEDIATED PARTITIONING OF FUEL UTILIZATION, GLUCONEOGENESIS, AND LIPID OXIDATION

Presenter: Katya Frazier

S107. AN ARTIFICIAL TEMPERATURE-COMPENSATED BIOLOGICAL CLOCK USING BELOUSOV-ZHABOTINSKY GELS

Presenter: Yuhei Yamada

SIDB. SPATIALLY-COORDINATED COLLECTIVE PROTEIN BEHAVIORS ENABLE ROBUST CIRCADIAN TIMEKEEPING

Presenter: Seokjoo Chae

SID9. LOSS OF THE HOMEODOMAIN TRANSCRIPTION FACTOR SIX3 IN NEUROMEDIN-S NEURONS ALTERS WHEEL RUNNING BEHAVIOR IN MALE, BUT NOT FEMALE MICE

Presenter: Karen Tonsfeldt

S110. SEX DIFFERENCES IN CIRCADIAN CLOCK RESILIENCE IN DROSOPHILA

Presenter: Evardra Bell

SIII. MECHANISTIC AND CONNECTOMIC INSIGHTS FROM REPTILIAN CIRCADIAN SYSTEMS

Presenter: Emma Morris

S112. REDUCED EXPRESSION OF THE CELL INTRINSIC CLOCK PROTEIN BMAL1, IN MYELOID CELLS, ACCELERATES COGNITIVE DECLINE AND ALTERS MICROGLIAL FUNCTION IN AGING MICE

Presenter: Chinyere Aqbaeqbu lweka

S113. GENETIC IDENTIFICATION OF A POPULATION OF DOPAMINE NEURONS THAT IS NECESSARY FOR CIRCADIAN FOOD ANTICIPATORY ACTIVITY

Presenter: Jacqueline Trzeciak

S114. THE INTESTINAL CIRCADIAN CLOCK DRIVES MICROBIAL RHYTHMICITY TO MAINTAIN GASTROINTESTINAL HOMEOSTASIS

Presenter: Marjolein Heddes

S115. CIRCADIAN DESYNCHRONY: MILD TRAUMATIC BRAIN INJURY BREAKS THE CLOCK

Presenter: Glenn Yamakawa

S116. CIRCADIAN CLOCK CONTROL OF TRNA SYNTHETASES, MRNA TRANSLATION, AND TRANSLATION FIDELITY IN NEUROSPORA CRASSA

Presenter: Griffin Best

MI. INVESTIGATING THE EFFECTS OF TIME OF EATING AND ALCOHOL ON THE LOCOMOTOR OUTPUT IN MICE

Presenter: Fabian Preuss

M2. CIRCADIAN MECHANISMS UNDERLYING PROLIFERATION AND ACTIVITY OF ADIPOCYTE PROGENITOR CELLS

Presenter: Kristin Eckel-Mahan

M3. USING GENE EXPRESSION STUDIES TO IDENTIFY WHERE TO SEARCH FOR CIRCADIAN RHYTHMS IN GLIOBLASTOMAS

Presenter: Michael Geusz

M4. ROR ACTIVATION BY NOBILETIN ENHANCES ANTI-TUMOR EFFICACY VIA SUPPRESSION OF IKB/NF-KB SIGNALING IN TRIPLE-NEGATIVE BREAST CANCER

Presenter: Eunju Kim

M5. USING CLOCK MODULATION TO AUGMENT TREATMENT FOR HEPATOCELLULAR CARCINOMA

Presenter: Kristin Eckel-Mahan

MG. TIME-RESTRICTED FEEDING REGULATES CIRCADIAN RHYTHMS AND SKELETAL MUSCLE FUNCTION UNDER METABOLIC CHALLENGES

Presenter: Girish Melkani

M7. ENRICHMENT OF RAII GENETIC ABERRATIONS ASSOCIATED WITH SLEEP DISTURBANCES IN SMS, IN AUTISM SPECTRUM DISORDER

Presenter: Sandra Smieszek

M8. ENRICHMENT OF THE VNTR PER3 VARIANT IN DSWPD PATIENTS: A LARGE WHOLE GENOME SEQUENCING ANALYSIS

Presenter: Sandra Smieszek

M9. PHENOTYPIC DIFFERENCES IN PSYCHIATRIC SYMPTOMS ACROSS THE DAY ARE PREDICTED BY SOMEONE'S PSYCHIATRIC PROFILE AND CHRONOTYPE

Presenter: John Axelsson

MIO. CLOCKS AT THE NEUROIMMUNE INTERFACE: DIURNAL RHYTHMS IN NEUROINFLAMMATORY SIGNALING ARE DISRUPTED WITH AGING AND MICROGLIA-SPECIFIC BMALI DELETION

Presenter: Louise Ince

M11. FEMALE MICE LACKING MELATONIN RECEPTOR 1 (MTI) ARE NO LONGER PROTECTED FROM THE NEGATIVE EFFECTS OF HIGH FAT DIET ON GLUCOSE and LIPIDS METABOLISM

Presenter: Varunika Goval

MIZ. HYPERAMMONAEMIA IMPAIRS DAILY RHYTHMS IN REST-ACTIVITY AND THE SUPRACHIASMATIC NUCLEUS BY INCREASING EXTRACELLULAR GLUTAMATE

Presenter: Daniel Granados-Fuentes

M13. BROWN ADIPOCYTE-SPECIFIC KNOCKOUT OF BMALI CAUSES MILD BUT SIGNIFICANT THERMOGENESIS IMPAIRMENT IN MICE

Presenter: Nazmul Hasan

MI4. A DAILY TEMPERATURE RHYTHM IN THE HUMAN BRAIN PREDICTS SURVIVAL AFTER TRAUMATIC BRAIN INJURY

Presenter: Nina Rzechorzek

MI5. SKELETAL MUSCLE SPECIFIC RESCUE OF BMALI IS SUFFICIENT TO EXTEND THE LIFESPAN OF THE BMALI KO MOUSE

Presenter: Miguel Gutierrez-Monreal

MIG. A ROLE FOR THE CIRCADIAN TRANSCRIPTION FACTOR NPAS2 IN SLEEP AND OPIOID ADDICTION

Presenter: Mackenzie Gamble

M17. CIRCADIAN RHYTHM EFFECTS IN MOUSE MODEL OF NEONATAL OPIDID WITHDRAWAL SYNDROME Presenter: Navsharan Singh

M18. MULTI-TISSUE DISRUPTION OF MOLECULAR CIRCADIAN RHYTHMS AFTER INTENSIVE CARE

Presenter: Henry Hollis

MI9. AN IN SILICO GENOME-WIDE SCREEN OF CLOCK STRENGTH IN HUMAN CANCERS

Presenter: Gang Wu

M2D. CHARACTERIZING TRANSCRIPTIONALLY ACTIVE CLOCK COMPLEXES IN TIME AND SPACE USING QUANTITATIVE PROTEOMICS

Presenter: Fatih Aygenli

M21. TIME-RESTRICTED FEEDING FUNCTIONALLY MODULATES THE GUT MICROBIOME IN A MOUSE MODEL OF NON-ALCOHOLIC STEATOHEPATITIS

Presenter: Kelly Fagelson

M22. SEXUALLY DIMORPHIC EFFECTS OF LIGHT AT NIGHT IN DROSOPHILA

Presenter: Ausra Pranevicius

M23. CIRCADIAN LIPIDOME IN RAT PLASMA IS HIGHLY DEPENDENT ON DEVELOPMENTAL STAGE

Presenter: Alena Sumova

M24. THE UNIFORM PHASE EMPIRICAL MODE DECOMPOSITION METHOD FOR ANALYZING CIRCADIAN RHYTHMS

Presenter: Chenlu Gao

M25. THE ENTRAINMENT REGULARITY INDEX AND ITS ASSOCIATION WITH WEIGHT GAIN DURING THE SCHOOL YEAR AND SUMMER AMONG ELEMENTARY SCHOOL AGE CHILDREN

Presenter: Jennette Moreno

M27. FUNCTIONAL CHARACTERIZATION OF THE KAI GENE CLUSTERS IN CIRCADIAN REGULATION WITHIN THE CYANOBACTERIUM SYNECHOCYSTIS SP. PCC 6803

Presenter: Chi Zhao

M28. POLAR PHOTOPERIOD COULD FACILITATE A PHOTIC BARRIER TO SPECIES RANGES VIA PREDATION

Presenter: Nicholas Per Huffeldt

M29. A HIGHLAND-ADAPTATION MUTATION FOR EPASI PROTEIN STABILITY DISRUPTS THE CIRCADIAN CLOCK IN THE PLATEAU PIKA Presenter: Erquan Zhang

M3D. EFFECTS OF DIET AND FEEDING PATTERNS ON DIURNAL FLUCTUATIONS OF THE GUT METATRANSCRIPTOME

Presenter: Stephany Flores Ramos

M32. DEVELOPMENT OF CIRCADIAN DYNAMICS OF THE BLOOD-BRAIN INTERFACE IN A HUMAN-BRAIN MIMICKING MICROFLUIDIC CHIP Presenter: Quang Nguyen

M33. MECHANISTIC BASIS OF GENETIC LINKS BETWEEN INSOMNIA AND CARDIOVASCULAR DISEASE

Presenter: Girish Melkani

M34. EFFECTS OF EXERCISE ON REALIGNING A DISRUPTED MOLECULAR CLOCK

Presenter: Emily Schmitt

M35. INTERCELLULAR COUPLING BETWEEN PERIPHERAL CIRCADIAN OSCILLATORS BY TGF-B SIGNALING

Presenter Achim Kramer

M36. ALTERED CIRCADIAN GENE EXPRESSION AT THE SINGLE CELL LEVEL ASSOCIATED WITH OPIOID USE DISORDER IN HUMAN POSTMORTEM BRAIN

Presenter: Sophia Miracle

M37. THE EFFECT OF NIGHT SHIFTS ON 24-H RHYTHMS IN THE URINARY METABOLOME OF POLICE OFFICERS ON A ROTATING WORK SCHEDULE

Presenter: Laura Kervezee

M38. SLEEP SELF-EVALUATION AND WELL-BEING OF SURGEONS WORKING 24-HOUR SHIFTS

Presenter: Natalia Bobko

M39. NOCTURNIN INCREASES CELLULAR SUSCEPTIBILITY TO OXIDATIVE STRESS

Presenter: Anne Djo

M4D. AS TIME GOES BY: FACTORS INFLUENCING CHRONOTYPE DEVELOPMENT DURING ADDLESCENCE

Presenter: Guadalupe Rodriguez Ferrante

M41. REGULATION OF CORTISOL REACTIVITY TO HEAD-UP TILT BY THE CIRCADIAN SYSTEM

Presenter: Joshua Gonzalez

M42. CLOCK PROTEINS AND TRAINING MODIFY EXERCISE CAPACITY IN A DAYTIME-DEPENDENT MANNER

Presenter: Vaishnavi Dandavate

M43. SEASONAL AND AGE EFFECTS ON FRACTAL REGULATION IN HUMAN MOTOR ACTIVITY

Presenter: Ma Cherrysse Ulsa

M44. A NOVEL MISSENSE VARIANT IN MELANOPSIN ASSOCIATES WITH DELAYED SLEEP PHENOTYPE: WHOLE GENOME SEQUENCING STUDY

Presenter: Sandra Smieszek

M45. EFFECTS OF CLOCK DISRUPTION AND SOLAR UVB EXPOSURE ON CIRCADIAN BEHAVIOR IN SKH-1 MICE

Presenter: Sean Cone

M46. LIGHT COMPOSITION ALTERS FELINE STRESS AND BEHAVIOR IN A SHELTER ENVIRONMENT

Presenter: Hanne Hoffmann

M47. LIGHTING SCHEMES SIMULATING SHIFT WORK PROMOTES INFLAMMATORY CYTOKINE PROFILES IN MICE

Presenter: Carmalena Cordi

M48. STRAIN SPECIFIC BEHAVIORAL RESPONSES TO CONSTANT LIGHT IN MALE C57BL6/J AND B6.CG-LEP(OB)/J MICE

Presenter: Meredith Burns

M49. ACTIGRAPHY-DERIVED DAILY REST-ACTIVITY METRICS MODIFY THE ASSOCIATION BETWEEN TIME-IN-BED LIGHT EXPOSURE AND RESTING DIASTOLIC BLOOD PRESSURE

Presenter: Freda Patterson

M5D. USING MACHINE LEARNING TO IDENTIFY NOVEL CIRCADIAN BEHAVIORS

Presenter: Jeff Janes

M51. SCN-OVLT VASCULAR PORTAL SYSTEM: IN VIVO DETERMINATION OF DIRECTION OF BLOOD FLOW Presenter: Javier Stern

M52. AUTISTIC-LIKE BEHAVIOR AND CEREBELLAR DYSFUNCTION IN BMALI MUTANT MICE AMELIORATED BY MTORCI INHIBITION

Presenter: Abhishek Mishra

M53. NONINVASIVE RECORDING OF TEMPERATURE AND ACTIVITY CYCLES IN CYNOMOLGUS MONKEYS

Presenter: Ruitong Jiang

M54. PEPTIDE CO-RELEASE WITHIN CRITICAL NEURONAL CLOCKS OF DROSOPHILA MELANOGASTER

Presenter: Matthew Ciolkowski

M55. A CANNABINOID RECEPTOR I AGONIST HAS A SEX-SPECIFIC IMPACT ON LIGHT-INDUCED PHASE DELAYS

Presenter: Timothy Niepokny

M56. TIME OF DAY MODULATES NEUROIMMUNE ACTIVATION OF THE OLFACTORY BULB

Presenter: Gregory Pearson

M57. ENDOCANNABINOID RECEPTOR KNOCKOUT PROTECTS AGAINST CIRCADIAN DESYNCHRONIZATION-INDUCED METABOLIC DISRUPTION

Presenter: Brennan Falcy

M58. POLYAMINE ELEVATION AND NITROGEN STRESS ARE TOXIC HALLMARKS OF CHRONIC SLEEP LOSS IN DROSOPHILA MELANDGASTER

Presenter: Joseph Bedont

M59. IPRGC MODULATION OF NICOTINE REINFORCEMENT LEARNING

Presenter: Heather Mahoney

MGO. DPR AND DIP CELL-SURFACE MOLECULES GATE CIRCADIAN INFORMATION FROM DROSOPHILA CIRCADIAN NEURONS

Presenter: Nicholas Herndon

MGI. THE DORSAL CLOCK NEURONS OF DROSOPHILA MELANOGASTER - NEW INSIGHTS INTO THEIR CONNECTIVITY AND MORPHOLOGY

Presenter: Nils Reinhard

MG2. AN AUXIN-INDUCIBLE GENE EXPRESSION SYSTEM FOR CONDITIONAL MANIPULATION OF DROSOPHILA CIRCADIAN BEHAVIOR

Presenter: Annika Barber

M63. VISUAL CIRCUITS UNDERLYING THREAT ANTICIPATION

Presenter: Tiffany Schmidt

M64. CIRCADIAN RHYTHM DISRUPTIONS IN MYOTONIC DYSTROPHY TYPE I (DMI) – A MULTI-SYSTEMIC GENETIC DISEASE WITH MAJOR CNS INVOLVEMENT

Presenter: Relinda Pinto

MG5. SCN-MEDIATED RHYTHMS REGULATE NEUROPATHOLOGICAL HALLMARKS IN A LIGHT-DEPENDENT MANNER

Presenter: Melvin King

M66. COMPARING DOSE-DEPENDENCY AND TIME-DEPENDENCY OF EXCITOTOXIC SUSCEPTIBILITY IN THE SUPRACHIASMATIC NUCLEUS. ANTERIOR HYPOTHALAMUS AND CORTEX

Presenter: Debalina Acharyya

M67. PRENATAL CIRCADIAN RHYTHM DISRUPTION INDUCES SEX-SPECIFIC SUBSTANCE USE-RELATED PHENOTYPES IN MICE

Presenter: Lauren DePoy

MG8. FASTER ADJUSTMENT OF LOCOMOTOR ACTIVITY AND LIVER GENE EXPRESSION TO PHOTIC PHASE ADVANCE WITH CHOCOLATE FOR BREAKFAST

Presenter: Zhen Nie

M69. HUMAN CLOCK ENHANCES COGNITIVE FLEXIBILITY BY ALTERING CORTICAL EXCITATORY NEURON FUNCTION

Presenter: Yuxiang Liu

M7D. BEYOND THE BIOCLOCK WORKSHOP: A "FREE-RUNNING" CIRCADIAN BIOLOGY COURSE

Presenter: Karen Tonsfeldt

M71. ADVANCEMENT OF THE CIRCANNUAL RHYTHM OF REPRODUCTION IN PREGNANT MARES: INFLUENCE OF PREPARTUM DELIVERY OF BLUE LIGHT TO ONE EYE ON PREGNANCY LENGTH, FOAL MATURITY AND POST-FOALING FERTILITY

Presenter: Barbara Murphy

M72. THE ENLIGHT DELPHI CONSENSUS PROJECT: TOWARDS STANDARD DOCUMENTATION AND REPORTING GUIDELINES FOR HUMAN LABORATORY-BASED LIGHT EXPOSURE INTERVENTIONS

Presenter: Laura Kervezee

M73. IPRGC INPUT TO THE SUBSTANTIA INNOMINATA

Presenter: Jacob Bhoi

M74. BRIEF EXPOSURES TO SEQUENCES OF FLASHING LIGHT SHIFT THE HUMAN CIRCADIAN TIMING SYSTEM

Presenter: Jamie Zeitzer

M75. VARIANT-TO-GENE-MAPPING FOLLOWED BY CROSS-SPECIES GENETIC SCREENING IDENTIFIES GPI-ANCHOR BIOSYNTHESIS AS NOVEL REGULATOR OF SLEEP

Presenter: Justin Palermo

M76. CIRCADIAN AND SLEEP DISRUPTION IN A MOUSE MODEL OF CHRONIC TRAUMATIC BRAIN INJURY

Presenter: Andrew Marris

M77. SLEEP FRAGMENTATION CAUSES PERSISTENT IMPAIRMENTS IN ALCOHOL TOLERANCE AND INCREASES ALCOHOL TOXICITY

Presenter: Natalie Storch

M78. CLOCK-MEDIATED CHANGES IN THE ACTIVITY OF A HOMEOSTATIC SLEEP CENTER CONTRIBUTE TO DAYTIME SLEEP IN DROSOPHILA

Presenter: Cynthia Hsu

M79. CRYI AND CRYZ DEFICIENT MICE AS TOOLS TO STUDY THE DIFFERENTIAL EFFECT OF SOCIAL JETLAG ON EARLY AND LATE CHRONOTYPES

Presenter: Inês Chaves

M8D. INCREASING EXPRESSION OF THE PENTOSE PHOSPHATE PATHWAY AFFECTS SLEEP:WAKE CYCLES

Presenter: Jessica Schwarz

M81. PERSONALIZED SLEEP-WAKE PATTERNS ALIGNED WITH CIRCADIAN RHYTHM RELIEVE DAYTIME SLEEPINESS

Presenter: Hyukpyo Hong

M82. ALTERED LIGHT RESPONSES IN MICE LACKING THE CIRCADIAN DEUBIQUITINASE USP2

Presenter: Shashank Srikanta

M83. TARGETING CRYPTOCHROME PROTEINS FOR DEGRADATION USING PROTACS

Presenter: Jack Munns

M84. THE GSK-3β-FBXL21 AXIS REGULATES SARCOMERE ARCHITECTURE AND MYOBLAST DIFFERENTIATION VIA MYOZI UBIQUITINATION AND NEAT SIGNALING

Presenter: Ji Ye Lim

M85. RENAL MITOCHONDRIAL BIOENERGETICS AND FUNCTION ARE DIMINISHED IN BMALI KNOCKOUT RATS

Presenter: Anne Ramsey

M86. INSULIN SIGNALING: A PRIMARY AXIS CONTROLLING THE CIRCADIAN PROGRAM IN THE LIVER? Presenter: Rafael Bravo

M87. REVERSIBLE ASSEMBLIES OF CLOCK GIRDERS CIRCADIAN RESILIENCE DURING STRESS

Presenter: Jonathan Lipton

M88. ANALYSIS OF CLOCK: BMALI ACTIVITY AT MOUSE LIVER ENHANCERS IN VIVO BY SINGLE MOLECULE FOOTPRINTING

Presenter: Xinyu Nie

M89. LOCALIZATION OF AN UBIQUITIN LIGASE-BINDING SITE TO THE N-TERMINUS OF REV-ERBlpha protein

Presenter: Ting-Chung Suen

M9D. INTERACTION MAPPING OF INDIVIDUAL CIRCADIAN CLOCK PROTEINS IN SINGLE CELLS

Presenter: James Bagnall

M92. THE PHOSPHORYLATION STATE OF KAIC COORDINATES STRUCTURAL AND FUNCTIONAL CHANGES WITHIN THE CYANOBACTERIA CIRCADIAN CLOCK

Presenter: Alfred Freeberg

M93. OSCILLATION OF PERI IN RAT CALCITONIN AND PARATHYROID HORMONE PRODUCING CELLS *Presenter: Birgitte Georg*

M94. VIP CELL COMPOSITION IN THE SCN OF THE BTBR MOUSE MODEL

Presenter: Katelyn Horsley

M95. THE FREQUENCY ISOFORMS OF NEUROSPORA CRASSA PLAY A DYNAMIC ROLE IN NEGATIVE ARM CIRCADIAN CLOCK REGULATION

Presenter: Jacqueline Pelham

M96. MECHANISMS UNDERLYING RHYTHMIC EXCITABILITY IN MAMMALIAN CLOCK NEURONS

Presenter: Priyam Narain

M97. A TALE OF TWO TAILS: INVESTIGATING HOW SPLICE VARIANTS OF CKIDELTA INFLUENCE KINASE ACTIVITY

Presenter: Rachel Harold

M98. DISSECTING THE DYNAMICS OF THE ZEBRAFISH CIRCADIAN CLOCK IN RESPONSE TO ENVIRONMENTAL STIMULI

Presenter: Raina Sacksteder

M99. CKIA-DEPENDENT PHOSPHORYLATION REDUCES CLOCK DNA BINDING AND TRANSCRIPTIONAL ACTIVITY TO REGULATE CIRCADIAN RHYTHMS

Presenter: Yao Cai

MIDD. RIBDSOMAL S6 KINASE REGULATES THE TIMING AND ENTRAINMENT OF THE MASTER CIRCADIAN CLOCK LOCATED IN THE MAMMALIAN SUPRACHIASMATIC NUCLEUS

Presenter: Kari Hoyt

MIDI. INTRINSIC RHYTHMS IN A GIANT SINGLE-CELLED ORGANISM AND THE INTERPLAY WITH TIME-DEPENDENT DRIVE, EXPLORED VIA SELF-DRGANIZED MACROSCOPIC WAVES

Presenter: Eldad Afik

MID2. A LEPTIN RESPONSIVE HYPOTHALAMIC CIRCADIAN CIRCUIT

Presenter: Dijun Tang

MIO3. PHYSIOLOGICAL SIGNIFICANCE OF INTESTINAL CLOCKS IN THE DEVELOPMENT OF IBD

Presenter: Yunhui Niu

M104. MUSCLE-SPECIFIC CRY2 INFLUENCES EXERCISE PERFORMANCE AND MUSCLE METABOLISM

Presenter: Lara-Leonie Fetzer

MIOS. A MINIMAL CIRCADIAN CLOCK NETWORK FOR GLUCOSE TOLERANCE

Presenter: Kevin Karanawski

MIDG. REDOX REGULATION OF THE CLOCK-CONTROLLED NADP(H) PHOSPHATASE NOCTURNIN

Presenter: Crystal Olivas

MIO7. A MATHEMATICAL MODEL OF STRIATAL EXTRACELLULAR DOPAMINE REGULATION IN THE PRODUCTION OF ULTRADIAN RHYTHMS

Presenter: An Qi Zhang

MIOB. INFERRING THE NETWORK TOPOLOGY OF THE MAMMALIAN SUPRACHIASMATIC NUCLEUS

Presenter: Nikhil Lokesh

MIO9. DIURNAL RHYTHMS IN SEROTONERGIC NEURON CLOCK GENE, CFOS, AND TPH2 MRNA EXPRESSION IN THE DORSAL RAPHE AND MEDIAN RAPHE NUCLEI OF ADULT MALE RATS

Presenter: Helen Strnad

MIIO. VIPERGIC FIBER DENSITY CHANGES ACROSS THE LIGHT DARK CYCLE

Presenter: Alexandra Neitz

M111. DIRECT. REAL-TIME IN VIVO MEASUREMENT OF DISTINCT CIRCADIAN CLOCKS IN DROSOPHILA

Presenter: Deniz Top

M112. CIRCATIDAL RHYTHMS OF ACTIVITY IN PARHYALE HAWAIENSIS REQUIRE BMAL1

Presenter: Erica Kwiatkowski

MII3. SKELETAL MUSCLE BMALI KNOCKOUT ALTERS THE EXERCISE-RESPONSIVE TRANSCRIPTOME AND CHROMATIN ACCESSIBILITY

Presenter: Mark Viggars

M114. CLOCKOLOGY—A COMMUNITY-DRIVEN CONSENSUS ON CIRCADIAN TERMS AND PHRASES USED IN CHRONOBIOLOGY

Presenter: Nina Rzechorzek

M115. NITECAP: AN EXPLORATORY CIRCADIAN ANALYSIS WEB APPLICATION

Presenter: Thomas Brooks

M116. ARE SOCIAL DEFEAT STRESS-INDUCED PHASE SHIFTS OF PERIPHERAL CLOCKS MEDIATED BY GLUCOCORTICOIDS?

Presenter: Roelof Hut

TI. PHARMACOLOGICAL TARGETING OF ROR BENEFITS CARDIAC REPAIR AFTER HEART ATTACK

Presenter: Janan Shoja Doost

T2. INVESTIGATING CIRCADIAN REGULATION OF ONCOGENIC FACTORS IN RENAL CELL CARCINOMA

Presenter: Rebecca Mello

T3. TIMED TEMOZOLOMIDE TREATMENT REDUCES TUMOR SIZE AND PROLIFERATION INDEX, AND CONFERS A SURVIVAL BENEFIT IN ORTHOTOPIC MODELS OF GLIOBLASTOMA MULTIFORME

Presenter: Anna Damato

T4. ONCOGENIC MYC LEVELS ALTERS CELLULAR RESPIRATION AND PROLIFERATION THROUGH INDUCTION OF REV-ERB PROTEINS

Presenter: Jamison Burchett

T5. THE MOLECULAR CLOCK IS A NOVEL PHARMACOLOGICAL TARGET TO REGULATE UTERINE CONTRACTIONS IN PREGNANCY

Presenter: Hanne Hoffmann

T7. PER2 DOWNREGULATION IS ASSOCIATED WITH TUMOR PROGRESSION IN HEAD AND NECK SQUAMOUS CELL CARCINOMA

Presenter: Liubay Labanaya

T8. BEHAVIOURAL BUT NOT MOLECULAR RHYTHMS IN VIPR2-/- MICE ARE RESTORED BY SCHEDULED VOLUNTARY EXERCISE

Presenter: Hugh Piggins

TIO. THE CLOCK IS TICKING FOR HIV-1

Presenter: Helene Borrmann

T11. HIGH-FAT FEEDING DISRUPTS EATING BEHAVIOR RHYTHMS IN PREGNANT FEMALE MICE AND INCREASES OFFSPRING MORTALITY

Presenter: Cameron Rostron

T12. DAILY VARIATION IN GLUCOSE CONTROL IN CRITICALLY ILL PATIENTS IN THE INTENSIVE CARE UNIT: A RETROSPECTIVE OBSERVATIONAL STUDY USING THE MIMIC-IV DATABASE

Presenter: Laura Kervezee

T13. CIRCADIAN DYSSYNCHRONY, A SUSCEPTIBLE STATE FOR AIR POLLUTION-INDUCED METABOLIC DISEASE

Presenter: Petra Haherzettl

T14. THE CLOCK MODULATOR NOBILETIN MITIGATES ASTROGLIOSIS-ASSOCIATED NEUROINFLAMMATION AND DISEASE HALLMARKS IN AN ALZHEIMER'S DISEASE MODEL

Presenter: Marvin Wirianto

T15. A NOVEL TOOL FOR INVESTIGATING THE CIRCADIAN SECRETOME OF SKELETAL MUSCLE

Presenter: Ryan Martin

TIG. EFFECT OF SEROTONERGIC MEDICATIONS ON MSLT DEPENDS ON THE TIME OF THE NAP

Presenter: Milena Pavlova

T17. SEX-SPECIFC ROLE OF THE CIRCADIAN TRANSCRIPTION FACTOR NPAS2 IN THE MODULATION OF FENTANYL WITHDRAWAL AND HYPERALGESIA

Presenter: Benjamin Williams

T18. ENVIRONMENTAL CIRCADIAN DISRUPTION EXTENSIVELY REMODELS LIVER CIRCADIAN PROTEOMES

Presenter: Hao Duong

T19. CIRCADIAN TRANSCRIPTOMIC ALTERNATIVE POLYADENYLATION SITES IN MAMMALIAN BRAIN

Presenter: Jason Gerstner

T20. MAMMALIAN CORE CLOCK MODELS REVISITED

Presenter: Hanspeter Herzel

T21. INTERNAL DESYNCHRONY OF CIRCADIAN RHYTHMS IN POPULATIONS WITH MILD TRAUMATIC BRAIN INJURY

Presenter: Yitong Huang

T22. A HYBRID EXPERIMENTAL/INFORMATIC APPROACH IDENTIFIES RHYTHMS AND TARGETS IN BREAST CANCER

Presenter: Jan Hammarlund

T23. COMPARATIVE GENE EXPRESSION ANALYSIS IN DROSOPHILA CLOCK NEURONS AND DOPAMINERGIC NEURONS AT SINGLE CELL Level

Presenter: Dingbang Ma

T24. DISTINCT METHODS OF SLEEP DEPRIVATION PRODUCE DIVERGENT PATTERNS OF GENE EXPRESSION IN DROSOPHILA BRAINS

Presenter: Clark Rosensweig

T26. COMPARISON OF RHYTHMS ACROSS THE HUMAN AND MOUSE STRIATUM

Presenter: Kaitlyn Petersen

T27. THE TICKING CLOCK, AN AGING STUDY OF A COLONIAL CHORDATE LINKING STEM CELL AGING TO MOLECULAR DECLINE OF Circadian regulation

Presenter: Ayelet Vaskabaynik

T28. TEMPORAL NICHE CHOICE IN DROSOPHILA MELANOGASTER

Presenter: Angelica Coculla

T29. ROS AND HYPOXIA SIGNALING REGULATE PERIODIC INFRADIAN METABOLIC AROUSAL CYCLES DURING INSECT DORMANCY - ARE FLESH FLIES JUST CRUNCHY GROUND SQUIRRELS?

Presenter: Dan Hahn

T30. CHARACTERIZATION OF FUSARIUM OXYSPORUM VVD REVEALS A DIVERGENT MECHANISM OF SIGNAL TRANSDUCTION

Presenter: Julia Jara

T31. DIVERSITY IN REST-ACTIVITY PATTERNS AMONG LAKE MALAWI CICHLID FISHES SUGGESTS A NOVEL AXIS OF HABITAT PARTITIONING

Presenter: Evan Lloyd

T32. CIRCADIAN RHYTHMICITY OF STRESS REACTIVITY TO A SOCIALLY EVALUATED COLD-PRESSOR TEST

Presenter: (Imar (Indaz)

T33. CIRCADIAN CONTRIBUTION TO SYSTOLIC BLOOD PRESSURE DIPPING IS MINIMAL UNDER CONSTANT CONDITIONS

Presenter: Gabrielle Gloston

T34. CHARACTERIZATION OF CRISPR KNOCK-IN CELLULAR MODELS OF PATHOGENIC MTOR ALLELES INVOLVED IN SMITH-KINGSMORE SYNDROME

Presenter: Yang Shen

T35. CIRCADIAN DISTURBANCES PREDICT INCIDENT PHYSICAL FRAILTY IN COMMUNITY-DWELLING OLDER ADULTS

Presenter: Ruixue Cai

T36. YOUNG CHILDREN'S EVENING MELATONIN LEVELS VARY WITH LUNAR PHASE

Presenter: Lauren Hartstein

T37. LATE CHRONOTYPE IN YOUNG SEDENTARY MEN, BUT NOT WOMEN, IS ASSOCIATED WITH POOR CARDIORESPIRATORY FITNESS

Presenter: Matthew Thomas

T38. DEPRESSION, FAMILY MENTAL HEALTH AND LONGITUDINAL PATTERNS OF HEART RATE RHYTHMICITY DURING PREGNANCY Presenter: Crystal Epstein

T39. HOMOGENATE AND SYNAPTIC PROTEOMICS REVEALS ALTERATIONS IN CIRCADIAN PATHWAYS IN THE BRAINS OF PEOPLE WITH OPIDID USE DISORDER

Presenter: Stephanie Puig

T40. DIFFERENCES IN 24H RHYTHMS WITHIN THE SKELETAL MUSCLE METABOLOME BETWEEN YOUNG HEALTHY AND OLDER INSULIN-Resistant men

Presenter: Jan-Frieder Harmsen

T41. ALTERNATIONS IN DAILY ACTIVITY PATTERNS IN UNMEDICATED WOMEN WITH MAJOR DEPRESSIVE DISORDER

Presenter: Hui-Wen Yang

T42. LOSS OF THE SKELETAL MUSCLE CIRCADIAN CLOCK RESULTS IN CHANGES IN Z-DISC PROTEIN EXPRESSION AND SPATIAL ORIENTATION OF TITIN

Presenter: Collin Douglas

T43. CIRCADIAN VARIATION OF EEG SPECTRAL POWER IN POSTMENOPAUSAL WOMEN

Presenter: Diane B. Boivin

T44. DELETION OF CRY1 ALTERS NEUROGENESIS IN ADULT SYRIAN HAMSTERS

Presenter: Michael Seifu Bahiru

T45. EFFECTS OF DIM LIGHT IN THE EVENING ON ACTIVITY, METABOLISM AND THE LIVER CLOCK

Presenter: Selma Tir

T46. MATHS MEETS LIGHT AND CIRCADIAN DATA TO DESIGN PERSONALISED INTERVENTIONS FOR IMPROVED SLEEP TIMING IN PEOPLE LIVING WITH SCHIZOPHRENIA

Presenter: Anne Skeldon

T47. BROAD SPECTRUM DAYTIME LIGHT EXPOSURE IMPROVES COGNITION INDEPENDENT OF CHANGES IN ALERTNESS

Presenter: Renske Lak

T48. ESTRADIOL PROTECTS CIRCADIAN ROBUSTNESS IN OVARIECTOMIZED MICE WHEN IN CONSTANT LIGHT

Presenter: Julie Michaud

T49. CIRCADIAN RHYTHM DISRUPTION AND ARGININE VASOPRESSIN ALTER GLYMPHATIC FLUID TRANSPORT WITHIN HIPPOCAMPUS AND SCN

Presenter: Eman Hamed

T50. TIMED DAILY RESTRICTED FEEDING SUPPRESSES THE FEMALE REPRODUCTIVE SYSTEM IN MICE

Presenter: Madison Trissel

T51. VISUALIZING EXPRESSION OF DIFFERENT PDF RECEPTOR ISOFORMS IN VIVO, IN DROSOPHILA

Presenter: Paul Taghert

T52. THE SEARCH FOR A GENETIC BASIS FOR RAPID PHASE SHIFTING IN BALB/CJ MICE.

Presenter: Todd Weber

T53. PARAMETRIC EFFECTS OF LIGHT VIA MULTIPLE PHOTORECEPTOR TYPES CONTRIBUTE SIGNIFICANTLY TO CIRCADIAN ENTRAINMENT IN DROSOPHILA MELANOGASTER

Presenter: Lakshman Abhilash

T54. DAILY CANNABINOID ANTAGONIST INJECTIONS DO NOT MIMIC THE CIRCADIAN PHENOTYPE OF CANNABINOID RECEPTOR 1 KNOCKOUT MICE

Presenter: Hunter Frey-Burkart

T55. CONNECTOMIC ANALYSIS OF THE DROSOPHILA LATERAL NEURON CLOCK CELLS REVEALS THE SYNAPTIC BASIS OF FUNCTIONAL PACEMAKER CLASSES

Presenter: Maria de la Paz Fernandez

T56. EXPOSURE TO ROOM LIGHT IMPACTS CIRCADIAN PHASE ESTIMATES DERIVED FROM PLASMA MELATONIN BUT NOT FROM URINE 6-SULPHATOXYMELATONIN

Presenter: Steven Lockley

T57. NEUROMODULATORY SIGNAL INTEGRATION IN A DROSOPHILA CLOCK OUTPUT REGION

Presenter: Naureen Hameed

T58. ROLE OF SLEEP IN LIPID HOMEOSTASIS

Presenter: Elana Pyfrom

T59. DIURNAL VARIATION OF ASTROCYTE GAP JUNCTION DYNAMICS IN THE MOLECULAR LAYER OF THE HIPPOCAMPAL DENTATE GYRUS

Presenter: Taylor Jorgensen

T60. THE GATING OF SLEEP BY DYNAMIC DOPIRI EXPRESSION IN CIRCADIAN LND NEURONS

Presenter: Jasmine Quynh Le

TGI. CIRCADIAN RHYTHMS IN CONDITIONED FEAR EXTINCTION RECALL ARE ASSOCIATED WITH TIME-OF-DAY DIFFERENCES IN INFRALIMBIC PREFRONTAL CORTEX NEURAL ACTIVITY IN RATS

Presenter: Matthew Hartsock

T62. NEURAL SUBSTRATES INVOLVED IN THE SOCIAL INTERACTION MODULATION OF THE LIGHT-INDUCED ACTIVATION OF THE SUPRACHIASMATIC NUCLEUS OF MICE

Presenter: Paola Fernandes

T63. DIURNAL VARIATION IN PARVALBUMIN INTERNEURON ELECTROPHYSIOLOGY IN MOUSE PREFRONTAL CORTEX

Presenter: Jennifer Burns

T65. CIRCADIAN REGULATION OF LEARNING AND MEMORY BY THE MNK-EIF4E SIGNALING AXIS IN THE MOUSE BRAIN

Presenter: Hao Lin

TGG. INVESTIGATING NEURONAL TISSUE RESPONSE IN THE PRESENCE OF AMYLOID-BETA AND TAU

Presenter: Victoria Norman

T67. MESO-LIMBIC DOPAMINE NEURONS ARE REQUIRED FOR INFRADIAN AROUSAL RHYTHM EMERGENCE

Presenter: Pratap Singh Markam

T68. INFLUENCE OF LIGHT ON ACTIVITY-REGULATED GENE EXPRESSION AND CIRCADIAN BEHAVIOR

Presenter: Melina Perez Torres

T69. BRAIN CELL-SPECIFIC GENETIC ACTIVATION OF NF-KB DISRUPTS CIRCADIAN RHYTHM AND SLEEP HOMEOSTASIS

Presenter: Mehari Mengistu

T70. EXPLORING THE INFLUENCE OF PNNS ON PHOTIC PHASE DELAY BEHAVIOUR IN HAMSTERS AND SCN CELL ACTIVITY

Presenter: Patricia Blakely

T71. IMPACT OF TIME-OF-DAY ON ELEVATED PLUS MAZE IN MICE

Presenter: Andrew Marris

T72. EVALUATING GENETIC TOOLS FOR THE IDENTIFICATION OF INTRINSICALLY PHOTOSENSITIVE RETINAL GANGLION CELLS

Presenter: Molishka Flores-Narvaez

T73. TO CLEAVE OR NOT TO CLEAVE? THE ONE MILLION DOLLAR QUESTION REGARDING THE EFFECT OF QUASIMODO ON THE CLOCK

Presenter: Maite Ogueta Gutierrez

T74. THE OPPOSING CHLORIDE COTRANSPORTERS KCC AND NKCC CONTROL LOCOMOTOR ACTIVITY IN CONSTANT LIGHT AND DURING LONG DAYS

Presenter: Anna Katharina Eick

T75. THE NEUROPEPTIDE PDF CONVEYS PHOTOPERIODIC AND THERMAL CUES TO MODULATE EYES ABSENT AND REGULATES SEASONAL PHYSIOLOGY

Presenter: Sergio Hidalgo Sotelo

T76. A ROLE FOR BMALI PHOSPHORYLATION IN TIMING OF SLEEP ARCHITECTURE AND SEROTONERGIC SIGNALING

Presenter: Nicole Gilette

T77. A PREBIOTIC DIET ALTERS THE FECAL MICROBIOME AND IMPROVES SLEEP IN RESPONSE TO SLEEP DISRUPTION IN RATS

Presenter: Keith Summa

T78. MONITORING OF CIRCADIAN RHYTHM DISRUPTION FOR EARLY DIAGNOSIS AND PROGNOSIS OF AUTOIMMUNE DISEASE TRIGGER AND PROGRESSION

Presenter: Petros Papagerakis

T79. THE ANTI-PROLIFERATIVE PROTEIN TOB REGULATES SLEEP ONSET TIMING

Presenter: Emily Han

T8D. SLEEP CONFERS RESILIENCE TO SOCIAL DEFEAT STRESS

Presenter: Brittany Bush

T81. A LONGITUDINAL, OBJECTIVE ASSESSMENT OF FATIGUE AND FATIGUE RISK IN EMERGENCY PHYSICIANS

Presenter: Lauren Fowler

T82. ALTERATIONS IN CIRCADIAN GENE EXPRESSION IN MAMMARY GLANDS FROM PUBERTAL MMTV-PYMT MICE FED A HIGH-FAT DIET

Presenter: Lin Yan

T83. SYNERGIES OF MULTIPLE ZEITGEBERS TUNE ENTRAINMENT

Presenter: Saskia Grahe

T84. ROLE OF RORS IN REGULATING AMPLITUDE OF CLOCK-CONTROLLED GENES

Presenter: Evan Littleton

T85. THE CIRCADIAN NATURE OF LYSOSOMAL CLEARANCE IN THE RETINAL PIGMENT EPITHELIUM MAY BE MEDIATED BY βA3/A1-CRYSTALLIN

Presenter: Anastasiya Strizhakova

T86. PROTEIN SOLUBILITY AS A POTENTIAL RESERVOIR OF CIRCADIAN RHYTHMICITY OF BIOCHEMICAL STATE

Presenter: Mallory Caron

T87. A FUZZY COMPLEX IN THE NEGATIVE ARM REGULATES CIRCADIAN CLOCK ROBUSTNESS

Presenter: Meaghan Jankowski

T88. EARLY BIRDS AND FLUORESCENT WORMS: INVESTIGATING THE ROLE OF THE PER2 C. ELEGANS HOMOLOG, LIN-42, IN NEMATODE DEVELOPMENTAL TIMING

Presenter: Rebecca Spangler

T89. QUANTIFICATION OF PROTEIN ABUNDANCE AND INTERACTION DEFINES A MECHANISM FOR OPERATION OF THE CIRCADIAN CLOCK

Presenter: Alexander Koch

T90. TRITHORAX-DEPENDENT ARGININE METHYLATION OF HSP68 MEDIATES CIRCADIAN REPRESSION BY PERIOD IN THE MONARCH Butterfly

Presenter: Christine Merlin

T91. CHRONOCODE: IMPLICATION FOR PROTEIN OSCILLATOR IN MAMMALIAN CIRCADIAN CLOCK

Presenter: Hikari Yoshitane

T92. FUNCTIONAL CHARACTERISATION OF HUMAN PERIOD2

Presenter: Andrei Mihut

T93. DECIPHERING THE TRANSCRIPTIONAL REGULATORY MECHANISM OF A RHYTHMIC LONG NON-CODING RNA, PER2AS

Presenter: Lin Miao

T94. A CASE FOR THE KINASES: A ROLE FOR CKI IN TEMPERATURE COMPENSATION OF THE NEUROSPORA CIRCADIAN CLOCK

Presenter: Elizabeth-Lauren Stevenson

T95. THE INTRACELLULAR BEHAVIOURS OF PERIOD AND CRYPTOCHROME WITHIN THE SCN

Presenter: Nicola Smyllie

T97. DEVELOPMENT AND CHARACTERIZATION OF AN INDUCIBLE, TISSUE-SPECIFIC REPORTER OF DROSOPHILA CIRCADIAN TRANSCRIPTIONAL ACTIVITY

Presenter: Daniel Cavanaugh

T98. DETERMINING THE IMPACT OF $CKI\alpha$ -dependent phosphorylation on CLK dna-binding affinity and transcriptional activity by biolayer interferometry

Presenter: Gary Chow

T99. CIRCADIAN ARRHYTHMIA IN PER2(M/M) MICE IS AFFECTED BY PRIOR PHOTOPERIODIC ENTRAINMENT

Presenter: Jonathan Riggle

TIOD. CIRCADIAN CLOCK IN THE CHOROID PLEXUS AND ITS SENSITIVITY TO EXTRACELLULAR AND INTRACELLULAR SIGNALS

Presenter: Alena Sumova

TIOI. LIGHT-EXCITED NEURONS OF THE SUPRACHIASMATIC NUCLEUS INITIATE ENTRAINMENT TO SHIFTED LIGHT CYCLES

Presenter: Anouk van Beurden

T102. CIRCADIAN RHYTHMS IN PARASITIC DISEASES: AN UNDERLYING CLOCK OF MALARIA PARASITES

Presenter: Filipa Rijo-Ferreira

TIO3. MICROBIAL ENTRAINMENT OF THE CIRCADIAN CLOCK

Presenter: Jacqueline Kimmey

TID4. ESTROGEN RECEPTOR ALPHA REGULATES CIRCADIAN ORGANIZATION IN FEMALE MICE

Presenter: Oluwabukola Omotola

T105. ARRHYTHMICITY OF THE GUT MICROBIOME DURING CIRCADIAN DESYNCHRONIZATION PROMOTES METABOLIC ALTERATIONS

Presenter: Baraa Altaha

TIGG. ANGIOPDIETIN-LIKE 4 DICTATES THE DIURNAL RHYTHM OF METABOLIC BROWN ADIPOSE TISSUE ACTIVITY

Presenter: Wietse In het Panhuis

T107. DISTINCT MOLECULAR CLOCKWORKS IN HIERARCHICALLY ORGANIZED PACEMAKER NEURONS

Presenter: Euimin Jeong

TID8. ORCHESTRATING THE CIRCADIAN EXPRESSION OF IMPLICIT TIME MEMORY IN MICE

Presenter: Martin Ralph

TIO9. IN VIVO DARK PULSE-MEDIATED TRANSIENT AND STEADY-STATE PHASE-RESETTING OF CALCIUM OSCILLATIONS IN MAMMALIAN CIRCADIAN CLOCKS

Presenter: Byeongha Jeong

TIID. THE ROLE OF REV-ERB NUCLEAR RECEPTORS IN DETERMINING CIRCADIAN PERIOD LENGTH AND INTERCELLULAR COHERENCE

Presenter: Michael Tackenberg

T111. THE ROLE OF BMAL1 IN NEUROINFLAMMATION AFTER SPINAL CORD INJURY

Presenter: Kathryn Mahach

T112. THE ROLE OF RETINDIC ACID BIOSYNTHESIS IN THE INFRADIAN RHYTHM OF THE HAIR CYCLE Presenter: Kelli Goggans

T113. IMPACT OF INTERMITTENT HYPOXIA ON CIRCADIAN PHYSIOLOGY AND GENE EXPRESSION IN MICE

Presenter: Bala Subrahmanya Chakravarthy Koritala

T114. YOUR SKIN IS GLOWING: MEASURES FROM A PERIPHERAL CLOCK IN THE SKIN

Presenter: Hangtong Lin

T115. MECHANISM OF CIRCADIAN CLOCK CONTROL OF RHYTHMIC TRANSLATION IN NEUROSPORA CRASSA

Presenter: Ebimobowei Preh

T116. A CRISPR-BASED DROSOPHILA STRATEGY FOR CELL-SPECIFIC GENE KOS OUTPERFORMS RNAI

Presenter: Shlesha Richhariya



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