SRBR2018

SOCIETY FOR RESEARCH ON BIOLOGICAL RHYTHMS

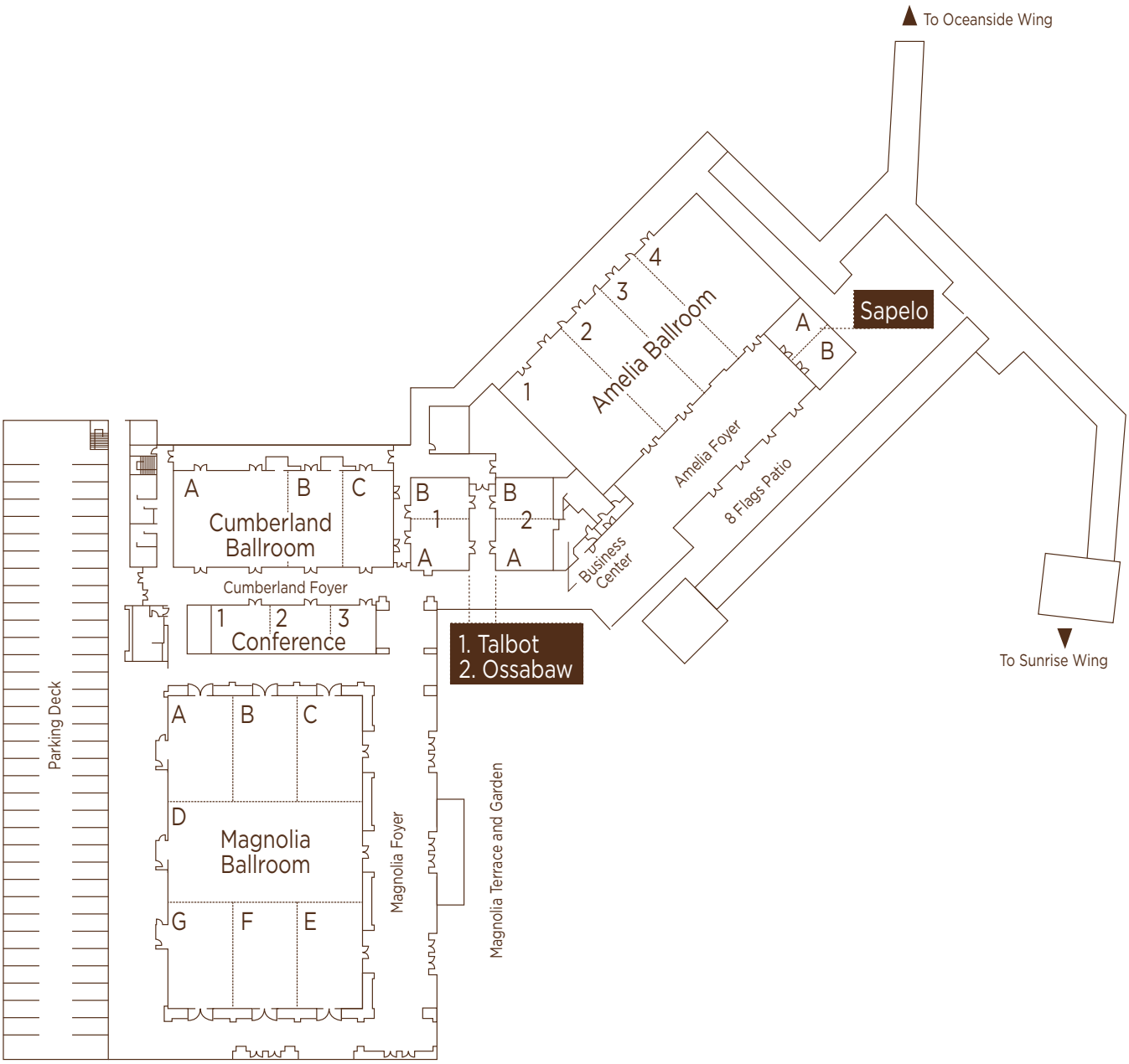
MAY 12-16, 2018

Amelia Island, Florida • Omni Amelia Island Plantation Resort

RESORT MAP


BEACH WALKER RD.
PARKING GARAGE
TO SPA & SHOPS
BEACH LAGOON RD.
MAGNOLIA GARDEN
CONFERENCE CENTER
BREEZEWAY
RESORT ENTRANCE
BEACHWOOD RD.
PORTE COCHERE
LOBBY
TERRACE
ADULT POOL
FAMILY POOL
SPLASH POOL
ATLANTIC OCEAN
9 10 33
11
12
13 15 14
2
3
5
8
6
7
SHOPPING
5 Beach Shoppe B
33 Amelia Shoppe
MEETING SPACE
9 Azalea Room
10 Hibiscus Room
12 Live Oak Room
14 Oceanview Room & Terrace B
RECREATION & ACTIVITIES
3 Camp Amelia B
7 Towel & Activity Hut
11 Gamers
13 Hotel Fitness Center B
DINING
2 Seaglass
6 Oceanside
8 Rum + Tequila Experience
15 Sunrise Café
Walkway to Beach (Resort Guests Only)
Walking Path
Breezeway
Tram Stop
(Dial "0" to Request)
B Beach Level
Elevators
OMNI RESORTS
amelia island plantation
904-261-6161

Amelia Island Conference Center



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

NIH National Institute of Neurological Disorders and Stroke

NIH National Institute on Drug Abuse
The Science of Drug Abuse & Addiction

National Institute of General Medical Sciences

NIDDK
NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES

NIH National Institute of Environmental Health Sciences

NIH National Institute on Aging

NSF

A Special Thanks to the 2018 SRBR Sponsors!

Rathaus Glockenspiel Sponsor

VANDA PHARMACEUTICALS INC.

Cosmo Clock 21 Sponsors

P&G

CONDOR INSTRUMENTS

DLA DAYLIGHT ACADEMY

TECAN.

Samrat Yantra Sponsors

PINNACLE TECHNOLOGY INC

ACTIMETRICS

Since 1964 ATTD Supporting Life Research

RESEARCH DIETS INC. www.ResearchDiets.com

SAGE Publishing

Sponsor

PLOS

Private Donation from the Estate of Ronald J. Konopka

Contents

President's Welcome to SRBR 2018

It is my pleasure to welcome you back to warm, sunny Florida for the 2018 Biennial SRBR Conference! We are excited to return to Amelia Island, the site of SRBR for so many years early after its founding. SRBR was established 30 years ago, assembled by a group of visionaries whose commitment to research, education, and scientific exchange laid the foundation for SRBR to become a leading voice in propelling the biological rhythms field into the forefront of life science and medicine. To further this remarkable progress, SRBR 2018 promises to be an exceptional forum for hearing the latest cutting-edge research, reengaging with colleagues from years past, and exchanging ideas that will shape the future of the field with a talented and diverse group of chronobiologists from around the globe. Between scientific sessions be sure to take advantage of the hiking trails, golf courses, swimming pools, tennis courts, gym equipment and other amenities at Omni Amelia Island Plantation Resort, as well as nearby beaches and beautiful Amelia Island.

All the scientific discourse, personal interactions and leisure activities that we will soon experience would not be possible without many people working behind the scenes who helped organize this meeting. I wish to sincerely thank the SRBR 2018 Program Chair, Horacio de la Iglesia, and the Program Committee for assembling a wide-ranging and exciting scientific program for us to enjoy, our Professional Development Committee Chair, Ilia Karatsoreos, the Professional Development Committee, and the Junior Faculty Workshop Chair, Jennifer Evans, for kicking off the meeting with terrific educational and career development events, Laura Laughlin and the Parthenon Management Group team for their meticulous planning to keep this meeting running smoothly, and our Fundraising Chair, Nico Cermakian, who raised a record level of support from many generous government, corporate and individual sponsors. In addition to planning SRBR 2018, your SRBR Board of Directors made quiet progress on multiple fronts including initiating a Public Relations Committee that is striving to improve the broad visibility of SRBR as the expert on circadian rhythms, increasing our advocacy for circadian biology and sleep to governmental and private funding institutes, and continuing with efforts to honor excellence of our members with Directors' Awards and other travel awards including those specifically targeted to enhance diversity at our meeting. I am forever grateful for the time and hard work that all SRBR committees devoted to strengthening our Society and advancing the biological rhythms field.

Finally, I want to thank all of you for being here and sharing your insights, energy and passion for biological rhythms – which is really what makes this meeting such a success. These are exciting times in the biological rhythms field, and I hope you will take full advantage of the opportunities that await you at SRBR 2018.

Best wishes for a great meeting!

Carla Green
SRBR President, 2016-2018

Committees

Board of Directors

Executive Committee

Carla Green, President
University of Texas Southwestern Medical Center

Erik Herzog, President-Elect
Washington University in St. Louis

Mary Harrington, Treasurer
Smith College

Ravi Allada, Secretary
Northwestern University

Members-at-Large

Chris Colwell
University of California, Los Angeles

Roelof Hut
University of Groningen, Netherlands

Diego Golombek
Universidad Nacional de Quilmes

Ex-officio Members

Paul Hardin, Former President
Texas A & M University

William Schwartz, Editor, *Journal of Biological Rhythms*
University of Massachusetts Medical School

Horacio de la Iglesia, 2018 Program Chair
University of Washington

Nicolas Cermakian, 2018 Fundraising Chair
McGill University

John Hogenesch, Comptroller
Cincinnati Children's Hospital

Ilia Karatsoreos, Professional Development Committee Chair
Washington State University

Anna Wirz-Justice, ChronoHistory Chair
University of Basel, Switzerland

Program Committee

Horacio de la Iglesia, Chair
University of Washington

Carrie Partch
University of California Santa Cruz

Charlotte Helfrich-Förster
University of Wuerzburg, Germany

Charles Allen
Oregon Health and Science University

David Welsh
University of California, San Diego

Jeanne Duffy
Harvard Medical School

John Hogenesch
Cincinnati Children's Hospital

Katja Lamia
The Scripps Research Institute

Luis Larrondo
Pontificia Universidad Catolica de Chile

Rob Lucas
University of Manchester

Roelof Hut
University of Groningen

Ying Xu
Soochow University, China

Fundraising

Nicolas Cermakian, Chair
McGill University

Nominating Committee

Paul Hardin, Chair
Texas A & M University

Mick Hastings
MRC Laboratory of Molecular Biology

Susan Golden
University of California, San Diego

Takashi Yoshimura
Nagoya University

Professional Development Committees

Trainee Day Committee

Ilia Karatsoreos, Chair
Washington State University

Benjamin Smarr
University of California, Berkeley

Carla Finkelstein
Virginia Tech

Mary Harrington
Amherst College

Jennifer Hurley
Renssealer Polytechnic Institute

Michael Tackenberg
Vanderbilt University

Nicole Bowles
Oregon Health and Science University

Junior Faculty Workshop Committee

Jennifer Evans, Chair
Marquette University

Ilia Karatsoreos, Co-Chair
Washington State University

Jason DeBruyne
Morehouse School of Medicine

Luis Larrondo
Pontifica Universidad Catolica de Chile

Carrie Partch
University of California, Santa Cruz

Trainee Awards Committee

Joanna C. Chiu, Chair
University of California Davis

Jennifer Hurley
Rensselaer Polytechnic Institute

Shihoko Kojima
Virginia Polytechnic Institute and State University

Luciano Marpegan
National University of Quilmes/ CONICET

Yong Zhang
University of Nevada Reno

Directors' Award Committee

Joseph Takahashi, Chair
UT Southwestern Medical Center

Michael Hastings
MRC Cambridge

Johanna Meijer
Leiden University Medical Center

Hitoshi Okamura
Kyoto University

Logo Competition Committee

Carrie Partch, Chair
University of California Santa Cruz

Shuji Akiyama
Institute for Molecular Science

David Dolezel
Institute of Entomology

Jennifer Hurley
Renssealer Polytechnic Institute

Charo Robles
Institute of Medical Psychology, LMU Munich

Brian Zoltowski
Southern Methodist University

ChronoHistory Committee

Anna Wirz-Justice, Chair
University of Basel

Josephine Arendt
University of Surrey

Eric Bittman
University of Massachusetts

Serge Daan
University of Groningen

Jeffrey Elliott
University of California, San Diego

Barbara Helm
University of Glasgow

Ken-ichi Honma
Hokkaido University Graduate School of Medicine

Elizabeth B. Klerman
Harvard Medical School

Bjorn Lemmer
Ruprecht Karls University Heidelberg

Reimer Lund
Munich

Michael Menaker
University of Virginia

Roberto Refinetti
Boise State University

Till Roenneberg
Ludwig Maximilians Munich University

Jürgen Zulley
University of Regensburg

Communications Committee

Shelley Tischkau, Chair
Southern Illinois University

Public Outreach Committee

Allison Brager, Chair
Walter Reed Army Institute of Research

Susan Golden
University of California, San Diego

Diego Golombek
Universidad Nacional de Quilmes

John Hogenesch
Cincinnati Children's Hospital

Elizabeth Klerman
Brigham and Women's Hospital

Céline Vetter
University of Colorado

Governmental Affairs Committee

Fred Turek, Chair
Northwestern University

Gene Block
University of California, Los Angeles

Mick Hastings
MRC Laboratory of Molecular Biology

Kenneth Wright
The University of Colorado Boulder

Amita Sehgal
University of Pennsylvania

Journal of Biological Rhythms

William J. Schwartz,
Editor-in-Chief
Dell Medical School, University of Texas

David Weaver, Deputy Editor
University of Massachusetts Medical School

Advisory Board

Charles Czeisler
Brigham & Women's Hospital and Harvard Medical School

Serge Daan
University of Groningen

Jay Dunlap
Geisel School of Medicine at Dartmouth College

Russell Foster
University of Oxford

Susan Golden
University of California, San Diego

Michael Hastings
University of Cambridge

Michael Menaker
University of Virginia

Michael Rosbash
Brandeis University

Amita Sehgal
University of Pennsylvania

Rae Silver
Columbia University

Joseph Takahashi
University of Texas Southwestern Medical Center

Michael Young
Rockefeller University

Editorial Board

Charles Allen
Oregon Health and Science University

Deborah Bell-Pedersen
Texas A & M University

Eric Bittman
University of Massachusetts

Diane Boivin
McGill University

Steven Brown
University of Zurich

Vincent Cassone
University of Kentucky

Nicolas Cermakian
McGill University

Derk-Jan Dijk
University of Surrey

Jeanne Duffy
Brigham & Women's Hospital and Harvard Medical School

Patrick Emery
University of Massachusetts Medical School

Carolina Escobar
National Autonomous University of Mexico

M. Fernanda Ceriani
Leloir Institute

Daniel Forger
University of Michigan

Diego Golombek
National University of Quilmes

Carla Green
University of Texas Southwestern Medical Center

Paul Hardin
Texas A & M University

Stacey Harmer
University of California, Davis

Samer Hattar
National Institute of Mental Health

Charlotte Helfrich-Förster
University of Würzburg

Barbara Helm
University of Glasgow

Hanspeter Herzel
Humboldt University Berlin

Erik Herzog
Washington University in St. Louis

John Hogenesch
Cincinnati Children's Hospital Medical Center

Todd Holmes
University of California, Irvine

Roelof Hut
University of Groningen

Horacio de la Iglesia
University of Washington

Carl Johnson
Vanderbilt University

David Kennaway
University of Adelaide

Achim Kramer
Charité Berlin

Charalambos Kyriacou
University of Leicester

Katja Lamia
Scripps Research Institute

Jennifer Loros
Geisel School of Medicine at Dartmouth College

Andrew Loudon
University of Manchester

Elizabeth Maywood
MRC Laboratory of Molecular Biology, Cambridge

C. Robertson McClung
Dartmouth College

Johanna Meijer
Leiden University Medical Centre

Martha Merrow
Ludwig-Maximilians University Munich

Ralph Mistlberger
Simon Fraser University

Valérie Mongrain
University of Montréal

Randy Nelson
Ohio State University

Hitoshi Okamura
Kyoto University

Terry Page
Vanderbilt University

Stuart Peirson
University of Oxford

Till Roenneberg
Ludwig-Maximilians University Munich

Frank A. J. L. Scheer
Brigham & Women's Hospital and Harvard Medical School

Alena Sumová
Academy of Sciences of the Czech Republic

Paul Taghert
Washington University in St. Louis

David Welsh
University of California, San Diego

Kenneth Wright, Jr.
University of Colorado

Takashi Yoshimura
Nagoya University

Award Winners

Named Awards

Vanda Pharmaceuticals Excellence Awards – Samuel Bowers, Rebekah Brooks, Danyi Ma, and Gabriele Sulli
Vanda Pharmaceuticals Merit Awards - Bharath Ananthasubramaniam and Louise Ince
Condor Instruments Excellence Award – Charles Cassone
Daylight Academy Excellence Award – Adam Seluzicki
Procter and Gamble Merit Award - Victoria Acosta-Rodríguez
Tecan Excellence Award – William Horton
Konopka Excellence Awards – Antonio Meireles-Filho and Lisa Soyeon Baik
Patricia DeCoursey Excellence Award – Samantha Iiams

Excellence Awards

Samuel Bowers
Rebekah Brooks
Charles Cassone
William Horton
Samantha Iiams
Danyi Ma
Antonio Meireles-Filho
Rebecca Northeast
Adam Seluzicki
Lisa Soyeon Baik
Gabrielle Sulli
Huei-Bin Wang

Merit Awards

Victoria Acosta-Rodríguez
Bharath Ananthasubramaniam
James Bagnall
Darius Becker-Krail
Franziska Brüning
Zheng Chen
Lauren DePoy
Baharan Fekry
Diego Fernandez
Lauren Foley
Jennifer Fribourgh
Vance Gao
Kinga Graniczkowska
Azure Grant
Ben Greenwell
Meghana Holla
Sabrina Hunt
Louise Ince
James Jaggard
Jeff Jones
Denise Kemler
Kyle Ketchesin
Dusan Kolarski
Ajay Kumar
Jacqueline Lane
Jennifer Langel
Isara Laothamatas
Ying Li
Xianhui Liu
Aldrin Lugena
Anneke Olde Engberink
Belinda Pinto
Lance Riley
Kayla Rohr
Bala S.C. Koritala
Luis Salazar
Raymond Sanchez
Matthias Schlichting
Forrest Shaffer
Benjamin Smarr
Andrea Smit
Nicola Smyllie
Alessandra Stangherlin
Jeff Swan
Lewis Taylor
Chelsea Vadnie
Megan Vaughan
Wanqi Wang
Tom Woelders
Maria Yurgel
Xianlin Zou

Trainee and Young Faculty Diversity Enhancement (TYDE) Fellowships

Kathryn Abrahamsson Halter
Allison Clark
Adam Contreras
Hannah De los Santos
Kinga Graniczkowska
Erin Hanlon
Atlantis Hill
Wesley Leigh
Heather Mahoney
India Nichols-Obande
Emily Ricketts
Raymond Sanchez
Joel Soler
Naomi Wallace
Andrew Villa

Global Diversity Fellowship

Carlos Caldart
Fernando Cázarez-Márquez
Danilo Flôres
Alejandra Goity
Anayanci Masis-Vargas
Alexandre Tavartkiladze
Luoying Zhang

Exhibitors

Please take time to visit with our exhibitors in the Amelia Foyer!

They have provided generous support of the 2018 SRBR Meeting.

Exhibitor Hours:

Sunday, May 13	7:00 am-6:30 pm
Monday, May 14	7:00 am-6:30 pm
Tuesday, May 15	7:00 am-6:30 pm
Wednesday, May 16	7:00 am-1:00 pm

ACTIMETRICS

Since 1964
ATTD
SupportingLifeResearch

CONDOR INSTRUMENTS

PINNACLE TECHNOLOGY INC

RESEARCH DIETS INC.™
www.ResearchDiets.com

SAGE Publishing

TECAN.

General Information

The SRBR Registration Desk is located in the Center Foyer.

Friday, May 11	3:00 pm – 7:00 pm
Saturday, May 12	8:00 am – 8:00 pm
Sunday, May 13	7:00 am – 6:30 pm
Monday, May 14	7:00 am – 6:30 pm
Tuesday, May 15	7:00 am – 6:30 pm
Wednesday, May 16	7:00 am – 1:00 pm

Messages can 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 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 12 at 7:00 pm. Lunch will be available for registered attendees on Sunday, May 13 and Monday, May 14 in the Magnolia Foyer. SRBR attendees are encouraged to attend the Closing Awards Banquet on Wednesday, May 16. A cocktail reception will begin at 6:30 pm followed by dinner and awards at 7:00 pm. For all other meals, please visit the many dining options that the resort has to offer.

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 SRBR2018 and download today. View the latest schedule, attendee list and abstracts!

Don't forget to follow us on social media @SRBRHQ and use the hashtag #SRBR2018

SRBR WiFi:
WiFi Network: srbr2018
Network Password: vanda2018

Meeting Components

Professional Development

Trainee Professional Development Day

Saturday, May 12, 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 12, 11:30 am – 5:45 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 13 - Wednesday, May 16, 10:30 am - 11:00 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 Conference Room 2 and take part in this informal gathering.

Scientific Sessions

Symposia

Sunday, May 13 - Wednesday, May 16, 8:15 am - 10:30 am

Sunday, May 13 and Tuesday, May 15, 4:15 pm - 6:30 pm

Symposium Sessions were designed by the 2018 Program Committee and invitations were extended to guest speakers.

Slide Sessions

Sunday, May 13 - Wednesday, May 16, 11:00 am - 12:30 pm

Slide Sessions were selected by the 2018 Program Committee from abstracts submitted for the 2018 meeting.

Presidential Symposium

Monday, May 14, 4:30 pm – 6:30 pm

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

Pittendrigh/Aschoff Lecture

Wednesday, May 16, 5:30 pm – 6:30 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. Charles Czeisler.

Datablitz

Sunday, May 13, 8:00 pm - 8:55 pm

Datablitz 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 13 - Tuesday, May 15

Posters will be available for viewing in the Magnolia Ballroom D-G starting at 8:00 am each day. All posters will remain up from Sunday, May 13 to Tuesday, May 15. Poster setup will be from 8:00 am to 4:00 pm on Sunday, May 13. Posters should be removed by Tuesday, May 15 at 11:00 pm. Each poster will be scheduled to be presented on a certain day:

Sunday, May 13, 9:00 pm – 10:30 pm	Poster numbers S1-S124
Monday, May 14, 9:00 pm – 10:30 pm	Poster numbers M1-M125
Tuesday, May 15, 9:00 pm – 10:30 pm	Poster numbers T1-T125

Coffee Table Discussions

Sunday, May 13, and Monday, May 14, 1:00 pm – 2:00 pm

Coffee Tables Discussions will be informal discussions of selected chronobiology topics nominated from the membership. These tables are meant to bring together researches with common interests for informal introductions and discussions. To prepare for a coffee table, think about questions that you would like to ask or resources you would like to share with your colleagues. Seats are limited for each researcher. Sign up sheets will be available at the Message Board next to the SRBR Registration Desk.

Special Meetings

JBR Editors Meeting, SAGE Publishers

Monday, May 14, 2:00 pm – 3:00 pm

SRBR Board of Directors Meeting

Tuesday, May 15, 12:45 pm – 2:45 pm

General Meeting of SRBR Members

Wednesday, May 16, 4:00 pm – 5:00 pm

This is the biennial meeting gathering the members of the Society. **All conference attendees 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 12, 7:00 pm – 9:00 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 16, 6:30 pm - 7:00 pm

Closing Banquet and Awards

Wednesday, May 16, 7:00 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.

Trainee Professional Development Day

Saturday, May 12

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.

9:00 am – 9:20 am **Welcome** | *Magnolia D*

Ilia Karastoreos, Washington State University

Carla Green, UT Southwestern Medical Center

9:20 am - 10:00 am **Keynote** | *Magnolia D*

Paul Hardin, Texas A&M University

10:10 am - 11:00 am **Trainee Day Session I**

Chronobiology Bootcamp I: Foundations and Basic Concepts | *Magnolia A*

Douglas McMahon, Vanderbilt University

For those that are new to the field, this workshop will give an overview of the up-to-date model of "transcriptional/translational feedback loops" in cellular clocks and review major discoveries that lead to the formation of this model. Focus will be placed on the mammalian system but a brief comparison with the Drosophila system will also be included.

Faculty Job Search: The Good, The Bad, and The (Sometimes) Ugly | *Magnolia B*

Jennifer Hurley, Renssealer Polytechnic Institute

Ryan Logan, University of Pittsburgh

The process of obtaining a faculty position can be daunting and there can be many pitfalls along the way. This workshop will address some of the most challenging aspects of the academic job hunt, including guidance on where and when to apply, insight on the process itself, and tips on what to do after you have been offered the position. Questions will be welcomed throughout this 50-minute discussion.

Teaching Chronobiology: Strategies for Discovery-Based Learning |
Magnolia C

Mary Harrington, Smith College

Edward Weber, Rider University

This workshop will describe approaches to incorporate current pedagogical principles in teaching chronobiology. We will describe our own experiences using zebrafish and mice as we engage students in discovery-based learning. We also will discuss approaches to teach principles of experimental rigor and reproducibility. The workshop will end with time to brainstorm new ideas for teaching chronobiology in diverse settings.

Publish or Perish: When, Where, and How to Publish and Review |
Magnolia E

William Schwartz, The University of Texas At Austin

This workshop will be run by the Editor-in-Chief of the Journal of Biological Rhythms, Bill Schwartz, to discuss a range of topics with workshop participants about to publish their work, whether senior graduate students or junior post-docs. Topics include authorship; deciding when and what to write; writing review articles; how to organize your writing; choosing a journal; engaging the attention of the editor; review, revision, and rejection; and serving as a journal referee. Come prepared with questions and problems!

Diversity in Chronobiology: Ways to Ensure a Vibrant Scientific Community |
Magnolia F

India Nichols-Obande, University of California, Los Angeles

Ketema Paul, University of California, Los Angeles

In this workshop we will be discussing the challenges and the opportunities for women and underrepresented minorities in the life sciences generally, and chronobiology in particular. We hope to stimulate discussion about strategies to increase diversity in a field that has not been particularly diverse, and to share approaches that have (or have not) been successful. We will encourage participants to ask questions and also contribute their own stories.

11:10 am - 12:00 pm **Trainee Day Session II**

Chronobiology Bootcamp II: Molecular Clocks (From Plant to Animal) |
Magnolia A

C. Robertson McClung, Dartmouth College

Alex Keene, Florida Atlantic University

This workshop will review our current understanding of the biochemical principles underlying molecular clocks by making a comparative analysis of new advances in different systems. We will discuss commonalities and highlight new technical approaches that might be taken to answer some of the most pressing questions.

Chronobiology Bootcamp III: History of Chronobiology | *Magnolia B*

Jay Dunlap, Geisel School of Medicine at Dartmouth

This session will provide a brief sketch that describes the first observations and studies that pioneered the field of chronobiology and is tailored to introduce trainees to the people and key experiments that paved the way for research in circadian rhythms. A variety of models will be touched upon, ranging from plants to dinoflagellates to fiddler crabs to the current genetic models with an emphasis on how different systems defined the course of research on rhythms. A lecture will last for ~30-40 min, followed by a discussion of ~10-20 min.

Outreach and Communicating Science: Novel Outreach Strategies with Art | *Magnolia C*

Luis Larrondo, Pontifica Universidad Catolica De Chile

Communicating our results, and reaching out to the wider community, is an incredibly important yet sometimes underestimated part of the job of scientists. There are many strategies to accomplish this, and this workshop will focus on some novel ways of reaching this important goal.

Research and the App Revolution | *Magnolia E*

Satchidananda Panda, Salk Institute for Biological Studies

Daniel Forger, University of Michigan

This workshop delves into emerging mobile technology, and presents smart mobile devices, applications, and sensors which allow collection of big data on various behaviors and physiological variables. Besides highlighting opportunities associated with those novel approaches, it will also discuss limitations, especially with regards to circadian rhythm research.

The Next Generation: How to Find the Right Scientific Mentor | *Magnolia F*

Ilia Karatsoreos, Washington State University

Carla Finkielstein, Virginia Polytechnic Institute and State University

While luck can play a big role in finding the right mentor, in this session we will discuss strategies that may maximize your ability to make informed decisions and hopefully tip the scale in your favor in finding the right fit. Participation from trainees at all levels (undergrad, grad, and postdocs) is encouraged.

Where to From Here? Alternatives to Academic Jobs | *Magnolia G*

David Ferster, Northwestern University

Annie Curtis, Royal College of Surgeons in Ireland

There are a lot of opportunities for PhDs in biological sciences. Some opportunities start right after graduate school or a postdoctoral fellowship, while other opportunities arise after long and successful careers in academia. This session will discuss some of the experiences in making the transition from the academy to the business world.

12:00 pm – 1:15 pm **Trainee Day Lunch** | *Magnolia D*

1:15 pm – 2:00 pm **Positive Feedback Looping** | *Cumberland A-B*

"Speed dating" for chronobiologists!

2:10 pm - 3:00 pm **Trainee Day Session III**

Chronobiology Bootcamp IV: The SCN: Past to Present | *Magnolia A*

Rae Silver, Columbia University

David Weaver, University of Massachusetts Medical School

It is now easy to think that it was always known that the SCN was the master brain clock. But, this wasn't always the case – it was a long and winding road that led to this key finding of our field. What are the components that make the master clock tick? This introduction is designed as a brief background before the meeting so that new trainees will better understand new findings in SCN anatomy, inputs/outputs and interconnections.

Dialogues in Chronobiology I: Diverse Organisms | *Magnolia B*

Christine Merlin, Texas A&M University

Kristin Tessmar-Raible, University of Vienna/ MFPL

Though much recent work in chronobiology seems focused on drosophila and rodent models, our field has a rich history of using a wide variety of species which have illuminated important basic concepts. This workshop by two experienced researchers who use non-rodent species will explore the power, trials, tribulations, and incredible rewards of using these species.

Collaboration: Strategies for Stable Collaboration | *Magnolia C*

Martha Gillette, University of Illinois Urbana-Champaign

Christopher Colwell, UCLA

Modern science is inherently collaborative. "Team science" is not just a buzz word anymore, it's a fact of life.

This session will be led by two exceptional researchers who have forged new and exciting collaborations to push forward their research agendas. They will discuss strategies to not only find collaborators, but how to encourage a cordial, professional, and mutually beneficial long-term relationship with other scientists.

Statistics and Modelling: Analysis of Genome Scale Circadian Data (A) | *Magnolia E*

John Hogenesch, Cincinnati Children's Hospital Medical Center

Tanya Leise, Amherst College

In this workshop, you'll learn about installing software to analyze genome scale circadian data. You'll apply this software to recent large-scale datasets. Along the way, you'll learn some key principles to design and analysis of these studies -- 'golden rules'.

Experimental Design: Do's, Don'ts and Good Practice in Chronobiology | *Magnolia F*

Elizabeth Klerman, Brigham and Women's Hospital, Inc

Eric Bittman, University of Massachusetts at Amherst

Part of the scientific pursuit is having the wisdom to ask the right questions. This workshop will focus on the process of identifying and refining a research question and optimizing experimental design to fit a hypothesis pertinent to rhythms research. Discussion of selecting appropriate controls, lighting conditions, the number of time points, and the means of measurement will also take place. Come with your own questions for how to design your experiments to align with best practices in our field.

International Science: Training and Working in a New Country | *Magnolia G*

Shihoko Kojima, Virginia Tech

Diego Fernandez, National Institute of Mental Health

Science has become an international endeavor. Each training stage brings with it the potential to move to a new and exciting place. But these moves aren't always easy, and the combination of both life and scientific "culture shock" can sometimes make things rough. Two investigators at different stages of their careers will share with you their experiences of being transplanted to a new environment, both the good and the not so good. Bring your own stories and questions to contribute to the discussion.

3:00 pm – 3:30 pm **Breakout Session** | *Magnolia G*

3:30 pm - 4:20 pm **Trainee Day Session IV**

Chronobiology Bootcamp V: Human Clocks and Translation | *Magnolia A*

Phyllis Zee, Feinberg School of Medicine, Northwestern University, Chicago

Jeanne Duffy, Brigham & Women's Hospital, Harvard Medical School

Translational research has been an area of emphasis, particularly given the funding climate. However, the nature and process of conducting translational research is often amorphous. This workshop will provide a collaborative discourse around the models and practices of translational chronobiology research. The workshop will provide a real world behind-the-scenes perspective of translational chronobiology research, and help trainees explore ways of engaging in this kind of research.

Debates in Chronobiology I | *Magnolia B*

This is a new and exciting format we are offering this year.

In this highly interactive session, teams of 5-7 participants will debate central topics in chronobiology.

You will randomly be assigned to a particular topic, and each team will work with a faculty "coach" in the lead-up to the meeting via Skype and/or other formats to get prepared to debate the other group.

Topic 1: Circadian rhythms are important in clinical translation.

Team 1 = Yes, timing matters. Team 2 = No, there's lots of info out there showing timing doesn't matter.

Effective Communication: How to (not) Give a Good Talk | *Magnolia C*

Justin Blau, New York University

We all know how pleasant it is to hear an exciting, engaging, and informative talk. But what makes a good talk?

This workshop by a very experienced speaker will use a highly interactive approach to help explain how to put together an engaging talk, and what pitfalls to avoid.

Statistics and Modeling: Analysis of Genome Scale Circadian Data (B) | *Magnolia E*

John Hogenesch, Cincinnati Children's Hospital Medical Center

Tanya Leise, Amherst College

In this workshop, you'll learn about installing software to analyze genome scale circadian data. You'll apply this software to recent large-scale datasets. Along the way, you'll learn some key principles to design and analysis of these studies -- 'golden rules'. (This session is taken in conjunction with session #16)

Debates in Chronobiology II: Questions and Controversies in Chronobiology | *Magnolia F*

This is a new and exciting format we are offering this year.

In this highly interactive session, teams of 5-7 participants will debate central topics in chronobiology.

You will randomly be assigned to a particular topic, and each team will work with a faculty "coach" in the lead-up to the meeting via Skype and/or other formats to get prepared to debate the other group.

Topic 2: Evolutionarily speaking, the molecular clock arose via:

Team 1 = A single ancestor. Team 2 = Convergent evolution.

Dialogues in Chronobiology II: Questions and Controversies in Chronobiology | *Magnolia G*

Maria Robles, Institute of Medical Psychology, LMU, Munich

Till Roenneberg, Institute for Medical Psychology

Despite the apparent simplicity of the circadian phenomena, their interpretations at different levels of analysis are not yet congruous. Is there an oscillator outside the transcription-translation feedback loop (TTFL)? How are inputs and outputs defined? Do models add predictive power and explanatory value to our understanding of the circadian system? How useful is the PRC (phase response curve) for understanding entrainment? These are examples of the questions we will address and discuss in this 50-min workshop. Attending this workshop will make you rethink your "givens" and hopefully take your thinking outside the box - if successful, this workshop will make you leave with more questions than you had before.

Interview Tips: Closing the Deal | *Cumberland A*

Lance Kriegsfeld, University of California, Berkeley

You made it. You finally got that email inviting you to come to "University X" to give a talk or two and try to land a job. But, how do you transition from a successful job application that gets you in the door, to a job offer? This discussion will focus on tips and tricks for increasing your chances to nail the interview, and how to negotiate the entire job offer process.

4:30 pm – 5:30 pm **"Back to the Future" Closing Panel** | *Magnolia D*

7:00 pm – 9:00 pm **Opening Reception** | *Magnolia Garden*

2018 Junior Faculty Workshops

Saturday, May 12

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.

11:30 am – 12:15 pm **Clock Networking** | *Cumberland A-B*

This is designed to facilitate interactions through "speed networking" among attendees. Attendees will form small groups and introduce themselves with their "elevator pitch".

12:30 pm – 2:00 pm **Panel Discussion 1** | *Cumberland C*

Navigating the Funding Environment: How to Optimize Your Efforts

Jason DeBruyne, Morehouse School of Medicine

Orie Shafer, University of Michigan

Joanna Chiu, University of California Davis

Michael Selmanoff, Center for Scientific Review/NIH

Obtaining funding can be challenging even in the best of times. This panel will discuss strategies to optimize efforts to obtain extramural funding. Topics will include how to identify different funding sources, how to target your proposals, and general advice for submitting successful applications.

2:15 pm – 3:15 pm **Panel Discussion 2** | *Cumberland C*

Effective Communication Strategies for Research Success.

Carrie Partch, University of California, Santa Cruz

William Schwartz, The University of Texas At Austin

Amita Sehgal, University of Pennsylvania

Samer Hattar, National Institute of Mental Health

This panel will discuss strategies for broadcasting your research message. Topics will include: journal selection, how to write a compelling cover letter, when to accept invited talks, how to speak to a nonscientist audience, and strategies for public outreach.

3:30 pm – 4:30 pm **Panel Discussion 3** | *Cumberland C*

Managing a Successful Lab: Recruitment, Mentorship, and Conflict Resolution

Deanna Arble, Marquette University

Frank Scheer, Brigham and Women's Hospital, Harvard Medical School

Ketema Paul, University of California, Los Angeles

Recruiting and training junior scientists is an essential skill that is rarely taught. This panel will discuss the management skills needed to grow and run a successful lab. Topics will include how to recruit talented people, how to effectively set the course for your team, how to resolve conflicts, and how to involve undergraduates effectively in research

4:45 pm – 5:45 pm **Panel Discussion 4** | *Cumberland C*

Juggling Research, Teaching, and Service Responsibilities in Academia: Can You Really Do It All?

Luis Larrondo, Pontifica Universidad Catolica De Chile

Paul Hardin, Texas A&M University

Nicolas Cermakian, McGill University

Carla Finkielstein, Virginia Polytechnic Institute and State University

Even in heavy research-oriented institutions, a faculty member is expected to balance teaching, training, and research. This panel will discuss strategies to help achieve work-life balance.

7:00 pm – 9:00 pm **Opening Reception** | *Magnolia Garden*

SRBR 2018 Program Details

Saturday, May 12

9:00 am - 5:30 pm **Trainee Day**
(see details on pages 17-23)

11:30 am - 5:45 pm **Junior Faculty Workshop**
(see details on pages 24-25)

7:00 pm - 9:00 pm **Opening Reception**
Magnolia Garden

Sunday, May 13

7:30 am - 9:00 am **Morning Coffee**
Amelia Foyer

8:15 am - 10:30 am **Concurrent Symposia**

Symposium 1: Konopka Symposium: Time Keeping by Molecular and Neuronal Networks
Amelia 1 & 2
Chair: John Hogenesch, Cincinnati Children's Hospital Medical Center

8:15 Introduction

8:30 ***Molecular and Cellular Dissection of the Circadian Clock***
Jennifer Loros, Geisel School of Medicine at Dartmouth

9:00 ***The Ontogeny of Circadian Synchrony***
Erik Herzog, Washington University

9:30 ***Complementing the Circadian Clock***
Elizabeth Maywood, MRC-Laboratory of Molecular Biology

10:00 ***Molecular Genetics of Delayed Sleep Phase Disorder***
Michael Young, The Rockefeller University

Symposium 2: Redox Regulation Of and By Clocks: Implications for Aging, Metabolism and Heart Disease
Amelia 3 & 4
Chair: Katja Lamia, The Scripps Research Institute

8:15 Introduction

8:30 ***Redox Regulation of Photoperiodic Flowering***
Takato Imaizumi, University of Washington

9:00 ***EPAS1 Contributes to High-Altitude Adaptation and Cripples the Circadian Clock in Tibetan Pika***
Erquan Zhang, NIBS, Beijing

9:30 ***The NAD Redox Switch in Aging and Circadian Homeostasis***
Clara Peek, Northwestern University

10:00 ***Circadian Rhythms, MyoD1 and Muscle Metabolic Homeostasis***
Karyn Esser, University of Florida

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 3: Circadian Photoreception: How Does It Work and How Can We Apply What We Know to Improve Public Health
Cumberland B-C
Chair: Rob Lucas, University of Manchester

8:15 Introduction

8:30 ***An Unexpected Role of the Suprachiasmatic Nucleus in Contagious Itch Behavior***
Zhou-Feng Chen, Director of Center for the Study of Itch

9:00 ***Re-Designing Visual Displays to Understand How Melanopsin Helps Us See***
Annette Allen, University of Manchester

9:30 ***Cell Autonomous Phototransduction in Circadian Neurons***
Todd Holmes, University of California at Irvine School of Medicine

10:00 ***Light and Sleep Signalling to the Molecular Clockwork***
Russell Foster, University of Oxford

10:30 am - 11:00 am **Coffee Break**
Amelia Foyer

10:30 am - 11:00 am **Meet the Professors**
Conference 2

Maria Fernanda Ceriani, *Fundacion Instituto Leloir*

Colleen McClung, *University of Pittsburgh*

Paul Taghert, *Washington University Medical School*

Charles Czeisler, *Harvard Medical School*

Phyllis Zee, *Feinberg School of Medicine, Northwestern University, Chicago*

Jay Dunlap, *Geisel School of Medicine at Dartmouth*

Carla Finkielstein, *Virginia Polytechnic Institute and State University*

Samer Hattar, *National Institute of Mental Health*

Tanya Leise, *Amherst College*

Gijsbertus van der Horst, *Erasmus University Medical Center*

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Metabolism and Microbiome**
Amelia 1 & 2
Chair: Shelley Tischkau, Southern Illinois University

11:00 **SS1.** ***Rhythmic Food Intake Drives Rhythmic Gene Expression More Potently Than the Hepatic Circadian Clock in Mice***
*Ben Greenwell, Texas A&M University

11:15 **SS2.** ***Absence of Melatonin Receptor 1 (MT1) Leads to Leptin Resistance in Mice***
Daniella do Carmo Buonfiglio, University of Sao Paulo

11:30 **SS3.** ***Selective Disarrangement of Circadian Rhythmicity of Microglia in Obesity***
Chun-Xia Yi, Academic Medical Center, University of Amsterdam.

11:45 **SS4.** ***Chronic Sleep Restriction Leads to Lasting Changes in the Fecal Microbiome and Fecal Metabolome in Mice***
**Samuel Bowers, Vanda Pharmaceuticals Excellence Awardee, Northwestern University

12:00 **SS5.** ***Gut Microbial Modulatory Diet Reduces the Impact of Chronic Circadian Disruption on Sleep and Facilitates Rhythm Realignment***
Monika Fleshner, University of Colorado at Boulder

12:15 **SS6.** ***Temperature Entrainment of the Circadian Clock of the Enteric Bacterium Enterobacter Aerogenes***
**Charles Cassone, Condor Instruments Excellence Awardee, University of Kentucky Department of Biology

11:00 am - 12:30 pm **Slide Session: Beyond Transcription or Translation**
Amelia 3 & 4
Chair: Justin Blau, New York University

11:00 **SS7.** ***Rhythmic Potassium Transport Regulates the Circadian Clock in Human Red Blood Cells***
John O'Neill, MRC Laboratory of Molecular Biology

11:15 **SS8.** ***Ask Family Kinases are Key Enzymes for Circadian Clock Input***
Hikari Yoshitane, The University of Tokyo

11:30 **SS9.** ***CK1δ/ε Protein Kinases Prime the PER2 Circadian Phosphoswitch***
Rajesh Narasimamurthy, Duke-NUS medical school, Singapore

11:45 **SS10.** ***Distinct Phosphorylation Modes of CK1 Required for the Circadian Clock of Neurospora***
Michael Brunner, Heidelberg University Biochemisty Center

12:00 **SS11.** ***Monitoring Multisite Phosphorylation in the Circadian Clock Using Time-Resolved NMR***
*Sabrina Hunt, University of California Santa Cruz

12:15 **SS12.** ***The Disordered C-Terminal Tail of Mammalian CRY1 Interacts With its Photolyase Homology Region to Regulate Circadian Rhythms***
Gian Carlo Parico, UC Santa Cruz

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Circadian Coding of Temperature and Photoperiod**
Cumberland A
Chair: Monika Stengl, University of Kassel

11:00 **SS13.** ***A Role for the Nuclear Pore in Nucleocytoplasmic Partitioning and the Maintenance of Temperature Compensation***
David Somers, Ohio State University

11:15 **SS14.** ***A Phototropin-Based Light-Temperature Coincidence Detection System in Arabidopsis***
**Adam Seluzicki, Daylight Academy Excellence Awardee, Plant Biology Laboratory, Salk Institute for Biological Studies

11:30 **SS15.** ***Chemical Integration of Circadian and Photoperiodic Clocks in Plants***
Brian Zoltowski, Southern Methodist University

11:45 **SS16.** ***Circadian Clock Control and Vitamin a Regulation of Photoperiodically-Induced Reproductive Diapause in the Monarch Butterfly***
**Samantha Iiams, Patricia DeCoursey Excellence Awardee, Texas A&M University

12:00 **SS17.** ***Effects of Short T-Cycle Entrainment on Rodent Reproduction***
Thijs Johannes Walbeek, University of California, San Diego

12:15 **SS18.** ***Sex Differences in Seasonal House Sparrow Vocalizations and Pineal Gland Control***
Clifford Harpole, University of Kentucky

11:00 am - 12:30 pm **Slide Session: Humans at Work and School**
Cumberland B-C
Chair: Phyllis Zee, Feinberg School of Medicine, Northwestern University

11:00 **SS19.** ***Sleep-More in Seattle: Later High School Start Times are Associated With Better Student Sleep and Academic Performance***
Gideon Dunster, University of Washington

11:15 **SS20.** ***Evidence of Social Jetlag Among Elementary School Children***
Jennette Moreno, Baylor College of Medicine

11:30 **SS21.** ***Simulated Night Shift Work Induces Circadian Misalignment of the Human Peripheral Blood Mononuclear Cell Transcriptome***
Laura Kervezee, McGill University

11:45 **SS22.** ***Influences of Recovery Time and Time of Day on Sleep Duration Prior Work Shifts: Analysing Diary and Actigraphy Data From 14 Studies***
John Axelsson, Karolinska Institutet

12:00 **SS23.** ***A Multi-Component Lighting Intervention for Shiftworking Hospital Staff***
Elizabeth Harrison, Center for Circadian Biology, UC San Diego

12:15 **SS24.** ***Killing Two Birds With One Stone: How Averaging Obscures Individual Diurnal Performance Trends***
Elise Facer-Childs, University of Birmingham

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

12:30 pm - 2:00 pm **SRBR Group Lunch**
Magnolia Foyer

1:00 pm – 2:00 pm **Coffee Tables Discussions**
Magnolia B-C

Getting a Faculty or Industry Job
Hosts: Katja Lamia, Christos Polymeropoulus

Genome Wide Data Analysis
Hosts: Michael Hughes, Felix Naef

Lab vs. Nature Ideas
Hosts: Roelof Hut, Charalambos Kyriacou

The Role of Social Media
Hosts: Satchidananda Panda, Joseph Takahashi

Public Outreach & Talking to the Press
Hosts: Diego Golombek, Till Roenneberg

Women in Science
Hosts: Mary Harrington, Jeanne Duffy

Rhythms Analysis
Hosts: John Hogenesch, Tanya Leise

Circadian Phase Markers
Hosts: *Tom Woelders, Ravi Allada

NIH Scientific Review
Hosts: Michael Selmanoff, Colleen McClung, Janet He

Mentoring: Seeking and Providing
Hosts: William Schwartz, Erik Herzog

4:15 pm - 6:30 pm **Concurrent Symposia**

Symposium 4: SRS-SRBR Symposium: Sleep Molecules
Amelia 1 & 2
Chair: Ying Xu, Soochow University
Co-Chair: Steven Shea, Oregon Health & Science University

4:15 Introduction

4:30 ***Sleep Loss Stirs Up a Tauopathy***
Sigrid Veasey, University of Pennsylvania School of Medicine

5:00 ***Regulatory Effects of Bmal1 on Sleep***
Ketema Paul, University of California, Los Angeles

5:30 ***Control of Sleep Duration and Timing by Taranis***
Kyunghee Koh, Thomas Jefferson University

6:00 ***An Evolutionarily Conserved Role for RFamide Neuropeptides in Sleep***
David Prober, California Institute of Technology

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 5: New Insights Into Molecular Genetic Components Involved in Seasonal Timing
Amelia 3 & 4
Chair: Bambos Kyriacou, University of Leicester

4:15 Introduction

4:30 ***Flowering in Trees***
Akiko Satake, Kyushu University

5:00 ***Seasonal Adaptation in Medaka***
Takashi Yoshimura, Nagoya University

5:30 ***Molecular Control of Migration Timing in Salmon***
David Hazlerigg, UiT The Arctic University of Norway

6:00 ***The Mechanisms Generating Long-Term Circannual Cycles in Mammals***
Andrew Loudon, University of Manchester

Symposium 6: Circadian Rhythms and Psychiatric Disorders
Cumberland B-C
Chair: Jeanne Duffy, Brigham & Women's Hospital, Harvard Medical School

4:15 Introduction

4:30 ***Roles of the Circadian Clock in ADHD and Depression - Insights from Zebrafish***
Han Wang, Soochow University

5:00 ***Light, Melanopsin-Containing Retinal Ganglion Cells, the Circadian System, and Mood/Affect***
Samer Hattar, National Institute of Mental Health

5:30 ***Chronobiological Basis of Mood Disorders in Women***
Diane B. Boivin, Douglas Mental Health University Institute, McGill University

6:00 ***Translational Research on the Use of Light Therapy in Psychiatric Patients***
Klaus Martiny, University of Copenhagen

8:00 pm - 8:55 pm **Datablitz**
Amelia 1 & 2
Chairs: Roelof Hut, University of Groningen and Yong Zhang, University of Nevada Reno

USING Optogenetics to Determine the Role of the Suprachiasmatic Nucleus in Mood Regulation
*Chelsea Vadnie, University of Pittsburgh

A Tale of Two CRYs: Identifying the Biochemical Determinants of Their Differential Regulation of Circadian Timekeeping
*Jennifer Fribourgh, UCSC

Participatory Chronobiology: Analyses of Skin Temperature Characterize Jetlag in the Qs Community
*Azure Grant, University of California, Berkeley

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Spaceflight-Associated Changes in Mouse Gut Microbiome: An Indicator of Disrupted Sleep and Circadian Rhythms?
Peng Jiang, Northwestern University

The Glucocorticoid Receptor and REV-ERB Alpha Interact in the Circadian Regulation of Inflammation
Polly Downton, University of Manchester

Estrogen Regulation of Daily Metabolic Rhythms in Female Mice
Oluwabukola Omotola, University of Kentucky

An Acid-Responsive Circadian-Oscillating lncRNA
**Rebekah Brooks, Vanda Pharmaceuticals Excellence Awardee, U of Pennsylvania

Circadian Clock Regulates Melanin Pigmentation in Mouse and Human
Soumyadeep Sarkar, Washington State University

Social Jet Lag Evokes Drosophila Circadian Neural Network Desynchrony
Ceazar Nave, University of California Irvine

Skin in the Circadian Game: Population Level Analysis of Transcriptional Rhythms in Human Skin
Gang Wu, Cincinnati Children's Hospital

Circadian Rhythms of Bioluminescence of Enterobacter Aerogenes in a Heterologous Host in Vivo
Jiffin Paulose, University of Kentucky

Circadian Variation of Neurometabolic Activity in the Prefrontal Cortex: Impacts of Aging and Circadian Disruption.
+Naomi Wallace, Washington State University

Associations Between Chronotype, Morbidity and Mortality in the UK Biobank Cohort
Kristen Knutson, Feinberg School of Medicine, Northwestern University, Chicago

A Novel in Vitro Model of Immune Consequences of Circadian Disruption
Adam Stowie, Morehouse School of Medicine

SCN Heterogeneity Revealed Through Developmental Patterning of Neuropeptide Expression
Vania Carmona-Alcocer, Marquette University

Circadian Clock of Enterobacter Aerogenes
*+Kinga Graniczkowska, University of Kentucky

Rest-Activity Cycles Drive Dynamics of Phosphorylation in Cortical Synapses
*Franziska Brüning, Max Planck Institute of Biochemistry

Differential Effects of Circadian System and Circadian Misalignment on Insulin Sensitivity and Insulin Secretion
Jingyi Qian, Brigham & Women's Hospital, Harvard Medical School

Acute Effects of Blue Light on Eating Behavior and Glucose Metabolism of Mice
#Anayanci Masis-Vargas, Institut des Neurosciences Cellulaires et Intégratives -CNRS- Strasbourg University

Muscle Contraction as Novel Non-Photic Time Cue for the Circadian Clocks in Muscle
*Denise Kemler, University of Florida

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Ecological Community Simulation Suggests Competition Can Drive Evolution of Circadian Rhythms
*Vance Gao, Northwestern University

Quantitative Network Analysis of Circadian Clocks in Fibroblasts and SCN Organotypic Slices
*James Bagnall, University of Manchester

A Novel Function of Gaba in the Mouse Suprachiasmatic Nucleus: Refinement of Circadian Output Rhythms
Daisuke Ono, Nagoya University

Paternal Cocaine Disrupts Offspring Circadian Clock Function in a Sex Dependent Manner in Mice
Alexandra Yaw, Kent State University

Distinct Circadian Rhythms of Circulating Endocannabinoids (eCB), 2-Arachidonoylglycerol (2-AG) and Anandamide (AEA)
+Erin Hanlon, The University of Chicago

Metabolic Input Regulates Circadian Physiology Through O-Glcnacylation
*Xianhui Liu, University of California, Davis

Light Dosimetry: A Method for Conditional Adjustment of Circadian Period
*Dusan Kolarski, University of Groningen

Regulation of the Hypoxic Response by Mammalian Cryptochromes
*Megan Vaughan, The Scripps Research Institute

Inhibition of Casein Kinase 1 Enhances Hippocampal-Dependent Learning and Increases Expression of Plasticity Proteins in the Hippocampus and Amygdala
+Heather Mahoney, University of South Florida

Single-Cell Analysis of Circadian Clock Activity in the Drosophila Intestine
Kathyani Parasram, University of Windsor

Actogram-Style Eatograms Reveal Association Between Food-Intake-Timing Variability and (hypo)manic Symptoms in Bipolar Disorders
Clément Bourguignon, McGill University

Measuring Circadian Bioluminescence from Freely Behaving Mice
*Wanqi Wang, Columbia University Medical Center

Timing of Feeding Behavior Affects Daily Rhythms in Body Temperature and Muscle Mitochondrial Metabolism
Paul de Goede, Academic Medical Center Amsterdam (AMC)

A Role for Biological Rhythms in Seasonal Adaptation and Speciation
Andrew Nguyen, University of Florida

How to Time Events With Multi-Site Phosphorylation
Yining Lu, University of Michigan

9:00 pm - 10:30 pm **Poster Session I (S1-S124)**

Magnolia Ballroom D-G

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Monday, May 14

7:30 am - 9:00 am **Morning Coffee**
Amelia Foyer

8:15 am - 10:30 am **Concurrent Symposia**

Symposium 7: Uncovering Hidden Principles in the Neuronal Organization of Clocks
Amelia 1 & 2
Chair: Johanna Meijer, Leiden University Medical Center

8:15 Introduction

8:30 ***Organization of Master Clock Circuits at the Network Level***
Jennifer Evans, Marquette University

9:00 ***Circadian Remodeling of Adult Networks***
Maria Fernanda Ceriani, Fundacion Instituto Leloir

9:30 ***Signals of Oscillator Networks in the SCN: Postnatal Changes in Players***
Sato Honma, Research and Education Center for Brain Science, Hokkaido University

10:00 ***The Connectome of the Adult Mouse Brain Clock: Today***
Rae Silver, Columbia University

Symposium 8: Evolution of Clocks and Sleep
Amelia 3 & 4
Chair: Peter Meerlo, University of Groningen

8:15 Introduction

8:30 ***Molecular Insight into Circadian and Circalunar Clocks in the Bristle Worm Platynereis***
Kristin Tessmar-Raible, University of Vienna/ MFPL

9:00 ***Molecular Basis of Biological Rhythms in an Intertidal Crustacean***
Bambos Kyriacou

9:30 ***Flexibility in Timing and Duration of Sleep in Great Frigatebirds Cycling Between Land and Air***
Niels Rattenborg, Max Planck Institute for Ornithology

10:00 ***The Energy Allocation Model of Sleep Function: An Evolutionary Perspective***
Markus Schmidt

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 9: Microbes, Their Hosts and Their Clocks
Cumberland B-C
Chair: Horacio de la Iglesia, University of Washington

8:15 Introduction

8:30 ***Circadian Dynamics in Gut Microbiome and Metabolic Homeostasis***
Satchidananda Panda, Salk Institute for Biological Studies

9:00 ***Circadian Rhythms in Early Divergent Parasites***
Luisa Figueiredo, Instituto de Medicina Molecular

9:30 ***Circadian Control of the Innate and Adaptive Immune Responses: Implications for Parasitic and Bacterial Infections***
Nicolas Cermakian, McGill University

10:00 ***Parasite Offence or Host Defense? the Role of Rhythms in Malaria Infection***
Sarah Reece, University of Edinburgh

10:30 am - 11:00 am **Coffee Break**
Amelia Foyer

10:30 am - 11:00 am **Meet the Professors**
Conference 2

Louis Ptacek, *UCSF*

Deborah Bell-Pedersen, *Texas A&M University*

Rob Lucas, *University of Manchester*

Elizabeth Maywood, *MRC-Laboratory of Molecular Biology*

Patricia DeCoursey, *University of South Carolina*

Justin Blau, *New York University*

Michael Rosbash, *HHMI/Brandeis University Biology*

Diane B. Boivin, *Douglas Mental Health University Institute, McGill University*

Nicolas Cermakian, *McGill University*

Jennifer Loros, *Geisel School of Medicine at Dartmouth*

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Assembling Central Clocks**
Amelia 1 & 2
Chair: Matthew Butler, Oregon Health & Science University

11:00 **SS25.** ***Genome-Wide Transcriptional Profiling of Circadian Oscillations in the Suprachiasmatic Nucleus***
Pin Xu, UT Southwestern Medical Center at Dallas

11:15 **SS26.** ***The Analysis of Distinctive Oscillators and Neuronal Networks in Mouse SCN***
Yongli Shan, UT Southwestern Medical Center

11:30 **SS27.** ***Coupling Between Subregional Oscillators Within the Suprachiasmatic Nucleus Determines Free-Running Period in the Rat***
Michael Schwartz, SRI International

11:45 **SS28.** ***Allatostatin C is a Novel Circadian Neuropeptide and Modulates Evening Locomotor Activity in Drosophila***
Madelen Diaz, Brandeis University

12:00 **SS29.** ***CRISPR-Mediated Deletions Reveal Surprising Features of Drosophila Gene Expression Regulation Within Circadian Neurons***
Dingbang Ma, HHMI/Brandeis University

12:15 **SS30.** ***Pigment-Dispersing Factor Functions in the Madeira Cockroach Circadian Clock***
Monika Stengl, University of Kassel

11:00 am - 12:30 pm **Slide Session: Clocks and Immune Function**
Amelia 3 & 4
Chair: Diego Golombek, Universidad Nacional de Quilmes

11:00 **SS31.** ***Lux Arrhythmo Coordinates the Circadian Clock and Defense in Arabidopsis***
Hua Lu, University of Maryland Baltimore County

11:15 **SS32.** ***Circadian Regulation of Macrophage Phagocytosis is Mediated by a Rev-Erba Independent Bmal1/RhoA Pathway***
Gareth Kitchen, University of Manchester

11:30 **SS33.** ***Role of Inflammatory Signaling in Modulating the Macrophage Circadian Clock***
Shan Chen, Geisel School of Medicine at Dartmouth

11:45 **SS34.** ***Regulation of Neuroinflammation by REV-ERBα***
Erik Musiek, Washington Univ. School of Medicine in St. Louis

12:00 **SS35.** ***Coordinated Immune Cell Oscillations Drive Diurnal Variation in Adaptive Immunity***
*Louise Ince, Vanda Pharmaceuticals Merit Awardee, Ludwig-Maximilians-University, Walter Brendel Center of Experimental Medicine, Munich

12:15 **SS36.** ***Simulated Shift Work Schedules in Mice Increases Serum Levels of Immunomodulatory Cytokines***
Emily Collins, Rensselaer Polytechnic Institute

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Omics Around the Clock**
Cumberland A
Chair: Louis Ptacek, University of California, San Francisco

11:00 **SS37.** ***Integrated Omics Uncover Circadian Clock-Regulated Phosphorylation Landscapes in Drosophila***
Ke Shui, Huazhong University of Science & Technology

11:15 **SS38.** ***Circadian Proteomic Analysis Identifies Essential Mechanisms of Post-Transcriptional Regulation in the Circadian Clock***
Jennifer Hurley, Renssealer Polytechnic Institute

11:30 **SS39.** ***Astrocyte-Focused Analysis of Single-Cell Transcriptomics Studies from Mouse Hypothalamus***
Chak Foon Tso, Washington University in St. Louis

11:45 **SS40.** ***Integration across Multi Omics Data Elucidates Metabolic Changes during Nocturnal Migration***
**William Horton, Tecan Excellence Awardee, Pennsylvania State University

12:00 **SS41.** ***Effects of Nocturnal Light on the Liver Metabolome***
Andries Kalsbeek, Netherlands Institute for Neuroscience

12:15 **SS42.** ***Identification of Biomarkers for Acute and Chronic Insufficient Sleep in the Human Blood Transcriptome***
Simon Archer, University of Surrey

11:00 am - 12:30 pm **Slide Session: Interactions Between Clocks and Sleep**
Cumberland B-C
Chair: Jason DeBruyne, Morehouse School of Medicine

11:00 **SS43.** ***A Novel Circadian Output Circuitry Regulates Sleep-Wake Arousal Threshold in Drosophila***
Fang Guo, HHMI/Brandeis University

11:15 **SS44.** ***Multiomics Analysis of Cardiovascular Protection Against Severe Sleep Loss in a Novel Model of Sleep Resiliency, the White-Throated Sparrow***
Paul Bartell, Pennsylvania State University

11:30 **SS45.** ***Scoring Sleep and Wake Using Raw Data From the Apple Watch***
Olivia Walch, University of Michigan

11:45 **SS46.** ***A Homeostasis Regulator SIK3 Directs Circadian Rhythms And Sleep Through Multiple Downstream Substrates***
Naoto Hayasaka, Nagoya University

12:00 **SS47.** ***Novel Animal Models for Under-Recognized Circadian Sleep Disorders***
Choogon Lee, Florida State University

12:15 **SS48.** ***A Population of Vipergic Clock Neurons in the Suprachiasmatic Nucleus Consolidate Daily Siesta Sleep***
Ben Collins, University of Zurich

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

12:30 pm - 1:30 pm **SRBR Group Lunch**
Magnolia Foyer

1:00 pm – 2:00 pm **Coffee Tables Discussions**
Magnolia B-C

Getting Published
Hosts: Joseph Takahashi, William Schwartz

Nocturnality/Diurnality
Hosts: Roelof Hut, Horacio de la Iglesia

Finding the Right Collaborators
Hosts: Charalambos Kyriacou, Russell Foster

Molecular Strategies to Regulate Amplitude
Hosts: Carrie Partch, John Hogenesch

NIH Funding Strategies
Hosts: Corinne Silva, Michael Sesma, Michael Selmanoff

Working with Vertebrates in Today's Lab
Hosts: Stuart Peirson, Satchidananda Panda

Using Rhythms to Teach Science
Hosts: Mary Harrington, Michael Gorman

From Grad Student to Postdoc
Hosts: *Benjamin Smarr, Stephanie Padilla

Administrative Service: The Good, the Bad, and the Ugly
Hosts: Karen Gamble, Jay Dunlap

2:00 pm - 3:00 pm **JBR Editors Meeting**
Magnolia A

3:00 pm - 4:00 pm **Timeless Memories**
Cumberland A

Our field stands on the shoulders of friends and colleagues who have passed away but are still among us through their creativity, wisdom and shared stories. Join us to celebrate their lives.

4:30 pm - 6:30 pm **Presidential Symposium: Biological Timing from Atoms to Disease**
Amelia Ballroom
Chair: Carla Green, UT Southwestern Medical Center

Why, Yes That *Is* a Clock in My Pocket and I *am* Happy to See You!
Andy LiWang, University of California, Merced

Macromolecular Machines of the Mammalian Circadian Clock
Charles Weitz, Harvard Medical School

Dissecting the Role of Physiologic and Metabolic Factors in Lung Cancer
Thales Papagiannakopoulos, NYU Langone Medical Center

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

8:00 pm - 9:00 pm **Just in Time**

Amelia Ballroom

Chair: Horacio de la Iglesia, University of Washington

Join us for three hot topic talks, The SRBR Program Committee

Data Capture in the Wild - The Human Chronobiome
Carsten Skarke, University of Pennsylvania

Leveraging Our Understanding of Circardian Rhythms to Treat an Incurable Genetic Disorder
Christopher Colwell, University of California, Los Angeles

Dermal Photoreception of Circadian Clocks in the Mouse Ear
Ethan Buhr, University of Washington

9:00 pm - 10:30 pm **Poster Session II (M1-M125)**

Magnolia Ballroom D-G

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Tuesday, May 15

7:30 am - 9:00 am **Morning Coffee**
Amelia Foyer

8:15 am - 10:30 am **Concurrent Symposia**

Symposium 10: Non-ATCG Clock Regulation
Amelia 1 & 2
Chair: Charles Allen, Oregon Health & Science University

8:15 Introduction

8:30 ***The Circadian Clock Collaborates with 3D Genome Organizers to Regulate Oscillating Transcription***
Carolina Diettrich Mallet de Lima. Karolinska Institutet

9:00 ***Rapid Response and Slow Recovery of a Liver Epigenomic Marker to a Light-Mediated Phase Advance of the Circadian Clock***
Mitch Turker, Oergon Health & Science University

9:30 ***Insights Into Novel Roles of JmjC Proteins in the Oscillator***
Luciano DiTacchio, University of Kansas Medical Center

10:00 ***Post-Transcriptional Regulation of the Circadian System***
Sebastian Kadener, Brandeis University

Symposium 11: Effects of Climate Change on Biological Timing Systems
Amelia 3 & 4
Chair: Charlotte Helfrich-Förster, University Wuerzburg

8:15 Introduction

8:30 ***Nature's Best Predictions in a Quickly Changing World: Timing of Avian Migration***
Barbara Helm, University of Groningen & University of Glasgow

9:00 ***Sex-Dependent Phenological Plasticity in an Arctic Hibernator***
Cory Williams, University of Alaska Fairbanks

9:30 ***Biotic Responses to Rapid Climate Change***
William Bradshaw, University of Oregon
Christina Holzapfel, University of Oregon

10:00 ***Circadian Modulation of Abiotic Stress Responses in Plants***
C. Robertson McClung, Dartmouth College

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 12: Crosstalk Regulation of the Circadian and Cell Division Cycles
Cumberland B-C
Chair: Carla Finkielstein, Virginia Polytechnic Institute and State University

8:15 Introduction

8:30 ***Crosstalk Between Circadian Rhythms and Cell Cycle in 3-Dimensional Organoids***
Christian Hong, University of Cincinnati College of Medicine

9:00 ***Maintaining Circadian Clock Precision in Growing and Dividing Cells***
David Lubensky, University of Michigan

9:30 ***Reconstructing the Phase Dynamics of Interacting Circadian and Cell Cycle Oscillators***
Felix Naef, EPFL

10:00 ***Central Role of NAD+-Dependent SIRT1 in Circadian Responses to Genotoxic Stress***
Mingzhu Fang, Rutgers University

10:30 am - 11:00 am **Coffee Break**
Amelia Foyer

10:30 am - 11:00 am **Meet the Professors**
Conference 2

Kristen Knutson, *Feinberg School of Medicine, Northwestern University, Chicago*

Luis Larrondo, *Pontifica Universidad Catolica De Chile*

Niels Rattenborg, *Max Planck Institute for Ornithology*

Takashi Yoshimura, *Nagoya University*

Celine Vetter, *University of Colorado at Boulder*

Michael Hastings, *MRC Laboratory of Molecular Biology*

Carl Johnson, *Vanderbilt University*

Andries Kalsbeek, *Netherlands Institute for Neuroscience*

Karen Gamble, *University of Alabama at Birmingham*

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Keeping the Clock in the Loop**
Amelia 1 & 2
Chair: David Weaver, University of Massachusetts Medical School

11:00 **SS49.** ***CK1/Doubletime Activity Delays Transcription Activation in the Circadian Clock***
Deniz Top, Rockefeller University

11:15 **SS50.** ***Yin-Yang Regulation and Conversion of the Circadian Gene Expression***
Yao Xu, Vanderbilt University

11:30 **SS51.** ***Multiple Feedback Loops Can Generate Tissue-Specific Circadian Rhythms***
Jan Patrick Pett, Humboldt University Berlin

11:45 **SS52.** ***Circadian Clock Regulation of Translation Initiation Through eIF2α Phosphorylation***
Shanta Karki, Texas A&M University

12:00 **SS53.** ***Immunoprecipitation-Mass Spectrometry Reveals New Regulatory Paradigms in the ZTL Protein Complex***
Joshua Gendron, Yale University

12:15 **SS54.** ***Structural Divergence at the Secondary Pocket Underlies Functional Differences in CRY1 and CRY2***
Clark Rosensweig, Northwestern University

11:00 am - 12:30 pm **Slide Session: Beyond the "Master" Oscillator**
Amelia 3 & 4
Chair: Alena Sumova, Institute of Physiology, Czech Academy of Sciences

11:00 **SS55.** ***An Integrative Approach to Dissect the Tissue-Specific Gene Regulatory Networks Controlling the Drosophila Circadian Clocks***
**Antonio Meireles-Filho, Konopka Excellence Awardee, EPFL

11:15 **SS56.** ***Elucidating Sex Hormone-Sensitive Neurons That Can Influence locomotor, Temperature and Sleep Patterns***
Stephanie Padilla, HHMI at the University of Washington

11:30 **SS57.** ***Osmo and Thermosensitive OVLT Neurons Regulate SCN Vasopressin Neurons in Horizontal Slices of Mouse Hypothalamus***
Claire Gizowski, Research Institute of the McGill University Health Centre

11:45 **SS58.** ***Implicit Time/Place Conditioning Alters Per2 mRNA Expression Selectively in Dorsal Striatum but Does Not Shift its Circadian Clock***
Choden Shrestha, University of Toronto

12:00 **SS59.** ***A Fear-Entrained Oscillator in the Mouse***
*Luis Salazar, University of Washington

12:15 **SS60.** ***Food Restriction Promotes Tissue-Specific Reprogramming of Circadian Gene Expression***
*Victoria Acosta-Rodríguez, Procter and Gamble Merit Awardee, University of Texas Southwestern Medical Center

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Clocks and Neural Disorders**
Cumberland A
Chair: Karen Gamble, University of Alabama at Birmingham

11:00 **SS61.** ***Regulation of Amyloid-Beta Dynamics and Pathology by the Circadian Clock***
Geraldine Kress, Washington University School of Medicine

11:15 **SS62.** ***Untangling the Etiology of Circadian Clock Dysfunction in Alzheimer's Disease***
Joshua Gamsby, USF Byrd Alzheimer's Institute

11:30 **SS63.** ***Using Region-Specific Mutagenesis to Understand the Neural Basis of Circadian Deficits in Dravet Syndrome***
Ivana Bussi, University of Washington

11:45 **SS64.** ***Circadian Regulation of Sleep in a Mouse Model of Dravet Syndrome***
*+Raymond Sanchez, University of Washington

12:00 **SS65.** ***Increased Phase Shifting Response to Light in Delayed Sleep-Wake Phase Disorder (DSWPD)***
Lauren A. Watson, Monash University

12:15 **SS66.** ***Neuronal Hyperpolarization Activates Transcription of a Circadian Synaptic Plasticity Gene***
Justin Blau, New York University

11:00 am - 12:30 pm **Slide Session: Entrainment in Models and People**
Cumberland B-C
Chair: Debra Skene, University of Surrey

11:00 **SS67.** ***High-Resolution Analysis of Phase Responses and Clock Dynamics Utilizing a Live Canvas and Eidetic Memory***
Luis Larrondo, Pontifica Universidad Catolica De Chile

11:15 **SS68.** ***Computational Model Predict a Novel Mechanism of Rapid Entrainment of Spider Circadian Clock***
Natalia Toporikova, Washington and Lee University

11:30 **SS69.** ***A Light-Opsin 3 Pathway in Adipocytes Regulates the Circadian Clock and Neonatal Energy Balance***
Richard Lang, Cincinnati Children's Hospital Medical Center

11:45 **SS70.** ***Geniculo-Geniculate Signalling Imbues Unique Sensory Properties on a Subset of Neurons in the Intergeniculate Leaflet and Ventral Lateral Geniculate***
Timothy Brown, University of Manchester

12:00 **SS71.** ***The Impact of Colour on Circadian Photoentrainment in Mice***
Josh Mouland, University of Manchester

12:15 **SS72.** ***Greater Circadian Sensitivity to Moderate and Bright Light in Women***
Parisa Vidafar, Monash University

12:30 pm - 4:15 pm **Lunch on Own and Free Time**

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

12:45 pm - 2:45 pm **SRBR Board of Directors Meeting (Invitation Only)**
Magnolia A

4:15 pm - 6:30 pm **Concurrent Symposia**

Symposium 13: Rhythmic Properties of the Female Circadian System
Amelia 1 & 2
Chair: Shin Yamazaki, University of Texas Southwestern Medical Center

4:15 Introduction

4:30 ***Estrogen Regulation of Daily Metabolic Rhythms Underlying Diet-Induced Obesity***
Julie Pendergast, University of Kentucky

4:54 ***Sex Differences in the Impact of Circadian Desynchronization on Ischemic Stroke Outcomes***
David Earnest, Texas A&M University Health Science Center

5:18 ***How the Female Brain Sleeps***
Jessica Mong, University of Maryland Medical School

5:42 ***Interactions Between the Circadian and Neuroendocrine Systems in Female Reproductive Health***
Lance Kriegsfeld, University of California, Berkeley

6:06 ***Multiple Circadian Oscillators Control the LH Surge and Ovulation***
Eric Bittman, University of Massachusetts at Amherst

Symposium 14: Time Keeping of Cellular Biology
Amelia 3 & 4
Chair: Carrie Partch, University of California, Santa Cruz

4:15 Introduction

4:30 ***The Diurnal Kidney Transcriptome in Young and Aged Mice***
Pal Westermark, Leibniz Institute for Farm Animal Biology

4:54 ***Clock Control of mRNA Translation***
Deborah Bell-Pedersen, Texas A&M University

5:18 ***Post-Translational Mechanisms Regulating Circadian Biology***
Maria Robles, Institute of Medical Psychology, LMU, Munich

5:42 ***Cryptochromes Are Substrate Adaptors for SCF-FBXL3***
Katja Lamia, The Scripps Research Institute

6:06 ***The Interplay Between Oxygen Rhythms, HIF1 and Circadian Clocks***
Gad Asher, Weizmann Institute of Science, Israel

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 15: Brain Clocks Outside SCN in Health and Disease
Cumberland B-C
Chair: David Welsh, University of California, San Diego

4:15 Introduction

4:30 ***Organization and Potential Function of Extra-SCN Oscillators in the Epithalamus and Mediobasal Hypothalamus***
Hugh Piggins, University of Manchester

4:54 ***Circadian Timekeeping Within the Hippocampus: Cellular and System-Wide Oscillators, and Their Effects on Plasticity***
Karl Obrietan

5:18 ***Coordination Between Clock Gene Expression and Glucocorticoid Hormones in Prefrontal Cortex-Dependent Emotional Learning***
Robert Spencer, University of Colorado Boulder

5:42 ***The Circadian Oscillator of the Cerebral Cortex: From Rhythmic Neuronal Gene Expression to Depressive-Like Behavior***
Martin Rath, University of Copenhagen

6:06 ***Circadian Genes in the Cortico-Limbic System: Implications for Psychiatric Disorders***
Colleen McClung, University of Pittsburgh

8:00 pm – 9:00 pm **A Celebration of the 2017 Nobel Awards**
Amelia Ballroom
Chair: Joseph Takahashi, UT Southwestern Medical Center

9:00 pm - 10:30 pm **Poster Session III (T1-T125)**
Magnolia Ballroom D-G

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Wednesday, May 16

7:30 am - 9:00 am **Morning Coffee**
Amelia Foyer

8:15 am - 10:30 am **Concurrent Symposia**

Symposium 16: Non-Photic Entrainment
Amelia 1 & 2
Chair: Roelof Hut, University of Groningen

8:15 Introduction

8:30 ***Anticipating Multiple Daily Meals: Circadian Mechanisms***
Ralph Mistlberger, Simon Fraser University

9:00 ***Food the Main Entraining Signal for the Circadian System?***
Carolina Escobar, Fac of Medicine, Universidad Nacional Autónoma de México

9:30 ***Links Between Rhythmic Feeding and the Central Clock in Flies***
Sheeba Vasu, Neuroscience Unit

10:00 ***Synchronizing the Drosophila Circadian Clock to the Daily Changes of Temperature***
Ralf Stanewsky, University of Münster

Symposium 17: Synthetic Oscillators: Design Principles Underlying Molecular Clocks
Amelia 3 & 4
Chair: Luis Larrondo, Pontifica Universidad Catolica De Chile

8:15 Introduction

8:30 ***Systems and Synthetic Biology of Mammalian Circadian Clocks***
Hiroki Ueda, RIKEN, Laboratory for Synthetic Biology, Quantitative Biology Center (QBiC)

9:00 ***How Mathematical Modeling Helps Solve Molecular Oscillators' Puzzles from Bacteria to Primates***
Jae Kyoung Kim, Korea Advanced Institute of Science and Technology

9:30 ***Limits on Clock Precision in Single Cells***
Johan Paulsson, Harvard Medical School

10:00 ***Copy Number Constraints on Bacterial Clocks and Timers***
Michael Rust, University of Chicago

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Symposium 18: Therapeutic Strategies Targeting Circadian Rhythms
Cumberland B-C
Chair: Zheng (Jake) Chen, University of Texas Health Science Center at Houston

8:15 Introduction

8:30 ***Targeting Rors and Rev-Erbs for Treatment of Chronic Diseases***
Thomas Burris, Saint Louis University School of Medicine

9:00 ***Tumor Suppression is a Clock-Controlled Physiological Function***
Loning Fu, Baylor College of Medicine

9:30 ***Zeitgebers, Entrainment, and Health?***
Celine Vetter, University of Colorado at Boulder

10:00 ***Discovery and Application of Small Molecule Cryptochrome Modulators***
Steve Kay, University of Southern California

10:30 am - 11:00 am **Coffee Break**
Amelia Foyer

10:30 am - 11:00 am **Meet the Professors**
Conference 2

David Hazlerigg, *UiT The Arctic University of Norway*

David Weaver, *University of Massachusetts Medical School*

Rebecca Prosser, *University of Tennessee Knoxville*

Michael Young, *The Rockefeller University*

Michael Menaker, *University of Virginia*

Charlotte Helfrich-Förster, *University Wuerzburg*

Sato Honma, *Research and Education Center for Brain Science, Hokkaido University*

Carla Green, *UT Southwestern Medical Center*

Ralf Stanewsky, *University of Münster*

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Molecular Clocks**
Amelia 1 & 2
Chair: Ravi Allada, Northwestern University

11:00 **SS73.** ***Role of Plekho1 in Circadian Rhythms and Pathways***
Steven Walsh, University of Oxford

11:15 **SS74.** ***Translation Stress Signaling to Cell Cycle and Circadian Clock via Checkpoint Kinase 2 in Neurospora Crassa***
Axel Diernfeller, Heidelberg University Biochemistry Center

11:30 **SS75.** ***Magnesium Regulates the Circadian Oscillator in Cyanobacteria***
Yong-Ick Kim, New Jersey Institute of Technology

11:45 **SS76.** ***Testing Circadian Regulation of WNT Signalling***
Kyle Stokes, University of Windsor

12:00 **SS77.** ***Single-Molecule Visualization of Clock Protein Interactions Reveals Dynamic Intermolecular Mechanisms of Resilience***
Tetsuya Mori, Vanderbilt University

12:15 **SS78.** ***Structure-Guided Engineering of mCRY1 to Elucidate the CRY1 Quality Control that Determines the Clock Speed***
Koji Ode, The University of Tokyo

11:00 am - 12:30 pm **Vanda Pharmaceuticals Slide Session: Clock Genes and Disease**
Amelia 3 & 4
Chair: Aarti Jagannath, University of Oxford

11:00 **SS79.** ***NPAS2 Mutation Increases Intravenous Cocaine Self-Administration During the Light Phase***
*Lauren DePoy, University of Plttsburgh

11:15 **SS80.** ***A Human Encyclopedia for Circadian Medicine***
Marc Ruben, Cincinnati Children's Hospital

11:30 **SS81.** ***Pharmacological Activation of Rev-Erbs is Lethal in Cancer and Oncogene-Induced Senescence***
**Gabriele Sulli, Vanda Pharmaceuticals Excellence Awardee, Salk Institute for Biological Studies

11:45 **SS82.** ***Active Time-Restricted Feeding Restores the Blood Pressure Circadian Rhythm via Sympathetic Nervous System in Type 2 Diabetic db/db Mice***
Tianfei Hou, University of Kentucky

12:00 **SS83.** ***Circadian Dysregulation of G1/S Cell Cycle Progression Impacts Cancer Cell Proliferation and Time-Dependent Response to Anti-Cancer Drug***
Yool Lee, University of Pennsylvania

12:15 **SS84.** ***Identification of CRY1/CRY2 Selective Compounds***
Tsuyoshi Hirota, Nagoya University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

11:00 am - 12:30 pm **Slide Session: Entrainment, Treatment and Performance**
Cumberland A
Chair: Eve van Cauter, University of Chicago

11:00 **SS85.** ***Designing a Critical Resetting Protocol for Achieving Large Phase Shifts in Humans***
John Abel, Harvard University

11:15 **SS86.** ***Tasimelteon Demonstrates Efficacy to Treat Jet Lag Disorder in an 8 Hour Phase Advance Clinical Study***
Christos Polymeropoulos, Vanda Pharmaceuticals

11:30 **SS87.** ***Broad-Spectrum White Light Does Not Induce Dose-Dependent Improvements in Alertness During Daytime***
Renske Lok, University of Groningen

11:45 **SS88.** ***A Model of Human Circadian Rhythms for the Real World***
Yitong Huang, Dartmouth College

12:00 **SS89.** ***The Endogenous Circadian System Contributes to a Morning Rise in Aldosterone in Humans***
Steven Shea, Oregon Health and Science University

11:00 am - 12:30 pm **Slide Session: Bioinformatics and Behavioral Approaches**
Cumberland B-C
Chair: Gisele Oda, Universidade de São Paulo

11:00 **SS91.** ***The ECHO App: An Application Utilizing Extended Harmonic Oscillators to Identify Non-Harmonic Circadian Oscillations in Large Datasets***
+Hannah De los Santos, Rensselaer Polytechnic Institute

11:15 **SS92.** ***Emergent Properties Due to Coupling of Circadian Oscillators***
Hanspeter Herzel, Institute for Theoretical Biology

11:30 **SS93.** ***BodyTime: Highly Accurate Determination of Internal Circadian Time From a Single Blood Sample***
*Bharath Ananthasubramaniam, Vanda Pharmaceuticals Merit Awardee, Charite Universitaetsmedizin Berlin

11:45 **SS94.** ***Novel Findings on Natural Variations of the Circadian Clock and Fitness***
*Bala S.C. Koritala, Rutgers, The State University of New Jersey

12:00 **SS95.** ***Circadian Modulation of Uv Light Avoidance Behavior in Drosophila***
**Lisa Soyeon Baik, Konopka Excellence Awardee, University of California, Irvine

12:15 **SS96.** ***Do Melatonin and Corticosterone Vary With Solar and Activity Cycles in a Seabird Under the Midnight Sun?***
Nicholas Per Huffeldt, Wake Forest University & Aarhus University

12:30 pm - 4:00 pm **Lunch on Own and Free Time**

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

4:00 pm - 5:00 pm **General Meeting of the Members**
Amelia Ballroom

5:30 pm - 6:30 pm **Pittendrigh/Aschoff Lecture: Charles Czeisler**
Amelia Ballroom
Chair: Horacio de la Iglesia, University of Washington
Charles Czeisler, Harvard Medical School

6:30 pm - 7:00 pm **Cocktail Reception**
Magnolia Foyer

7:00 pm - 11:45 pm **Closing Banquet and Awards**
Magnolia Ballroom

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Poster Titles

Sunday, May 13

S1. CIRCADIAN DISRUPTION IN ADOLESCENCE INCREASES ADULT ALCOHOL INTAKE IN C57BL/6J MICE
Danielle Gulick, University of South Florida

S2. SOCIAL MODULATION OF THE CIRCADIAN RHYTHM IN TWO WILD NEOTROPICAL FISH SPECIES ADAPTED TO EXTREME ENVIRONMENTAL CONSTRAINTS
Ana Silva, Laboratorio De Neurociencias, Facultad De Ciencias

S3. DIURNALLY ACTIVE RODENTS FOR LABORATORY RESEARCH
Roberto Refinetti, Boise State University

S4. BEHAVIORAL RHYTHMICITY IS ABERRANT IN THE MPER2LUC CIRCADIAN REPORTER MOUSE
Martin Ralph, University of Toronto

S5. DAILY BEHAVIOURAL RHYTHMS IN THE FRUIT PEST DROSOPHILA SUZUKII AND THEIR IMPORTANCE FOR CROP PROTECTION
Bethan Shaw, University of Southampton

S6. NOT ALL CIRCADIAN DISRUPTION PROTOCOLS ARE CREATED EQUAL
Angus Fisk, University of Oxford

S7. MEASURING CIRCADIAN BIOLUMINESCENCE FROM FREELY BEHAVING MICE
*Wanqi Wang, Columbia University Medical Center

S8. SEX DIFFERENCES IN CIRCADIAN FOOD ANTICIPATORY ACTIVITY ARE NOT ALTERED BY INDIVIDUAL MANIPULATIONS OF SEX HORMONES OR SEX CHROMOSOME COPY NUMBER IN MICE
Maya Ogawa-Okada, California Polytechnic State University Pomona

S9. DIURNAL RHYTHMIC BEHAVIOR OF FREE-RANGING BROWN-THROATED THREE-TOED SLOTHS (BRADYPUS VARIEGATUS) IN A REMNANT OF THE BRAZILIAN ATLANTIC FOREST.
Giles Duffield, University of Notre Dame

S10. A 10.5:10.5 PHOTOPERIOD ALTERS BOTH CIRCADIAN AND NOVELTY-INDUCED LOCOMOTOR ACTIVITY IN MALE C57BL6/J MICE
Joseph Seggio, Bridgewater State University

S11. CLOCK PROPERTIES AS A FUNCTION OF THE FREE-RUNNING PERIOD
Manishi Srivastava, JNCASR

S12. ANALYSIS OF CIRCADIAN RHYTHMS IN A PROGRESSIVE MODEL OF BREAST CANCER
Hui-Hsien Lin, University of Massachusetts Amherst

S13. SUBMISSION WITHDRAWN

S14. INVESTIGATING THE ROLE OF CRYPTOCHROME 2 IN HUMAN CANCER
Alanna Chan, The Scripps Research Institute

S15. A NOVEL IN VITRO MODEL OF IMMUNE CONSEQUENCES OF CIRCADIAN DISRUPTION
Adam Stowie, Morehouse School of Medicine

S16. SLEEP/WAKE DISRUPTION IN A MOUSE MODEL OF DEVELOPMENTAL DISABILITIES
Cristina Ghiani, David Geffen School of Medicine at UCLA

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S17. DAILY RHYTHMS IN SUBSTANTIA NIGRA DOPAMINERGIC NEURONS ARE DISRUPTED IN MOUSE MODELS OF PARKINSON'S DISEASE.
Jodi Paul, University of Alabama at Birmingham

S18. PHARMACOLOGICAL MODULATION OF CIRCADIAN RHYTHMS MAY MODULATE MOOD
Harshmeena Sanghani, University of Oxford

S19. CHRONOPHARMACOLOGICAL STUDY OF THE NOVEL DRUG 1A FOR GLIOBLASTOMA TREATMENT.
Luciano Marpegan, Comisión Nacional de Energía Atómica

S20. DOES EXPOSURE TO LIGHT AT NIGHT INCREASE ATHEROSCLEROSIS?
Robert Wendroth, University of Kentucky

S21. CIRCADIAN CLOCK PROTECTS AGAINST RADIATION-INDUCED DERMATITIS AND CARDIOMYOPATHY IN MICE
Kenneth Porter, Washington State University

S22. D-SER2-OXYNTOMODULIN AMELIORATES Aβ31-35 INDUCED CIRCADIAN RHYTHM DISORDER
Li Wang, Shanxi Medical University

S23. ENVIRONMENTAL CIRCADIAN DISRUPTION ACCELERATES HEMORRHAGIC STROKE ONSET IN SPONTANEOUSLY HYPERTENSIVE STROKE-PRONE RATS (SHRSP)
Anne Ramsey, Morehouse School of Medicine

S24. CAN CIRCADIAN HYGIENE BE USED TO TREAT HUNTINGTON'S DISEASE?
Christopher Colwell, UCLA

S25. A 5XFAD TRANSGENIC MOUSE MODEL FOR PHOTOPERIOD TREATMENT OF CIRCADIAN REST/ACTIVITY DISRUPTION IN ALZHEIMER'S DISEASE
Bernard Possidente, Skidmore College

S26. ALIGNMENT OF HOST-PATHOGEN BIOLOGICAL RHYTHMS: THE MALARIA PARASITE PLASMODIUM VIVAX IS PHASE-CORRELATED TO ITS HUMAN HOST'S CIRCADIAN RHYTHM
Lauren Smith, Duke University

S27. PILOT CASE SERIES OF WEARABLE SHORT WAVELENGTH LIGHT THERAPY IN ADULTS WITH PERSISTENT TIC DISORDERS
+Emily Ricketts, University of California, Los Angeles

S28. ABNORMAL NIGHTTIME BLOOD PRESSURE PATTERNS AMONG YOUTH EVALUATED FOR HYPERTENSION
David Smith, Cincinnati Children's Hospital Medical Center

S29. MOLECULAR RHYTHMS IN THE HUMAN PREFRONTAL CORTEX AND NUCLEUS ACCUMBENS IN SUBJECTS WITH SCHIZOPHRENIA
*Kyle Ketchesin, University of Pittsburgh

S30. ARE CHRONOTYPES FLEXIBLE, IN FRUIT-FLIES?
Abhilash Lakshman, Jawaharlal Nehru Centre for Advanced Scientific Research

S31. PHOTIC AND THERMAL CIRCADIAN ENTRAINMENT OF CAENORHABDITIS ELEGANS
#Carlos Caldart, Universidad Nacional de Quilmes

S32. BEYOND THE LIMITS OF CIRCADIAN ENTRAINMENT: COMPUTATIONAL MODELING AND ANALYSIS OF SHIFT WORK, SOCIAL JET LAG, AND NON-24-HOUR SLEEP-WAKE DISORDER
Casey Diekman, New Jersey Institute of Technology

S33. GENOME WIDE CHANGES IN DNA METHYLATION MARK THE CHANGING SEASONS IN MAMMALIAN CALENDAR CELLS
Matthew Hindle, The Roslin Institute

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S34. A NEW PERSPECTIVE ON OLD DATA: CHARACTERISING PHOTORECEPTORS' CONTRIBUTION FROM MELATONIN SUPPRESSION BY LIGHT IN HUMANS
Claude Gronfier, Inserm (French National Institute of Health and Medical Research)

S35. T-CYCLE ENTRAINMENT REVEALS HETEROGENEITY OF NEURONAL CLOCK NETWORK IN DROSOPHILA MELANOGASTER
Koustubh Vaze, University of Wuerzburg

S36. PHOSPHORYLATION OF MELANOPSIN SER-398 INFLUENCES THE LIGHT MEDIATED FOS AND EGR1 RESPONSE.
Birgitte Georg, Bispebjerg Hospital, University of Copenhagen

S37. ROLE OF TREK-1 TWIN PORE K+ CHANNELS IN THE PHOTOPERIODIC PROGRAMMING OF THE DORSAL RAPHE SEROTONIN NEURONS
Manuel Giannoni-Guzmán, Vanderbilt University

S38. A MUTATION THAT ALTERS CIRCADIAN CIRCUITRY REDUCES JET LAG.
Eric Bittman, University of Massachusetts at Amherst

S39. ZEITGEBERS OF THE CIRCADIAN CLOCK IMPACT MICROBIAL DIVERSITY IN VITRO
*Zheng Chen, Ludwig-Maximilians-University Munich

S40. PUPIL RESPONSES TO COLOR: AN INSIGHT INTO THE WIRING OF THE HUMAN RETINA
*Tom Woelders, University of Groningen

S41. LIGHT DOSIMETRY: A METHOD FOR CONDITIONAL ADJUSTMENT OF CIRCADIAN PERIOD
*Dusan Kolarski, University of Groningen

S42. CIRCADIAN VARIATION OF NEUROMETABOLIC ACTIVITY IN THE PREFRONTAL CORTEX: IMPACTS OF AGING AND CIRCADIAN DISRUPTION.
+Naomi Wallace, Washington State University

S43. THE INTERVERTEBRAL DISC CONTAINS CIRCADIAN CLOCKS THAT ARE REGULATED BY AGE AND CYTOKINES AND LINKED TO DEGENERATION
Qing-Jun Meng, University of Manchester

S44. THE DEVELOPMENT OF THE INTESTINAL CIRCADIAN CLOCK: FROM STEM CELLS TO HUMAN INTESTINAL ORGANOIDS
Drew Rosselot, University of Cincinnati

S45. CIRCADIAN DISTURBANCES IN THE HIPPOCAMPUS OF THE TG-SWDI MOUSE MODEL OF ALZHEIMER'S DISEASE.
Allison Manuel, University of Alabama at Birmingham

S46. BEHAVIOURAL CONSEQUENCES OF DISRUPTING THE CIRCADIAN CLOCK IN THE STRIATUM
Konrad Schoettner, Concordia University

S47. INVESTIGATING TIME OF DAY VARIATION IN HIPPOCAMPAL CA1 INHIBITION AND CLOCK GENE EXPRESSION WITHIN PARVALBUMIN-CONTAINING INTERNEURONS
Lacy Goode, University of Alabama Birmingham

S48. SINGLE-CELL ANALYSIS OF CIRCADIAN CLOCK ACTIVITY IN THE DROSOPHILA INTESTINE
Kathyani Parasram, University of Windsor

S49. DEFINING THE MINIMAL DOPAMINE CIRCUIT MEDIATING CIRCADIAN ENTRAINMENT TO SCHEDULED FEEDING IN MICE
Jose Monroy, California Poly Pomona University

S50. TIMING OF FEEDING BEHAVIOR AFFECTS DAILY RHYTHMS IN BODY TEMPERATURE AND MUSCLE MITOCHONDRIAL METABOLISM
Paul de Goede, Academic Medical Center Amsterdam

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S51. MISALIGNED MEALS COMPROMISE REPRODUCTIVE SUCCESS
Matthew Butler, Oregon Health & Science University

S52. THE PHYSIOLOGICAL EFFECTS OF PYY IS DEPENDENT UPON TIME OF DAY
Marissa Maroni, Bridgewater State University

S53. CONSTITUTIVE AND CONDITIONAL DELETION OF TYPE 1 DOPAMINE RECEPTOR (DRD1) TO STUDY FOOD ANTICIPATORY BEHAVIOR IN MICE
Dina Assali, California State Polytechnic University, Pomona

S54. EFFECTS OF TIMED EXERCISE ON CIRCADIAN RHYTHMS IN HUMANS
Matthew Thomas, University of Kentucky

S55. USING MATHEMATICAL MODELING TO PREDICT CIRCADIAN PHASE IN NIGHT SHIFT WORKERS
Philip Cheng, Henry Ford Health System

S56. MINING MILLIONS OF REAL-WORLD UNIVERSITY LOGINS TO FIND SOCIAL JETLAG'S IMPACT ACROSS DEMOGRAPHICS.
*Benjamin Smarr, University of California, Berkeley

S57. SUBMISSION WITHDRAWN

S58. HEMODYNAMICS REGULATION IN SURGEONS DURING 24-HOUR DUTIES
Natalia Bobko, Kundiiev Institute of Occupational Health of NAMS, Kyiv, Ukraine

S59. A CUSTOMISED LED LIGHTING SYSTEM UTILISING DAYTIME POLYCHROMATIC WHITE LIGHT AND NIGHT-TIME RED LIGHT INFLUENCES BODY COMPOSITION AND CIRCADIAN CLOCK GENE EXPRESSION IN HORSES IN TRAINING.
Barbara Murphy, University College Dublin

S60. EPIDEMIOLOGY OF OBJECTIVELY MEASURED BEDTIME AND CHRONOTYPE IN US ADOLESCENTS AND ADULTS
Vadim Zipunnikov, Johns Hopkins Bloomberg School of Public Health

S61. THE NEGATIVE IMPACT OF SOCIAL JETLAG ON SLEEP QUALITY AND CARDIAC CONTROL DURING SLEEP
Ágnes Sűdy, Semmelweis University

S62. INTRINSIC FUNCTIONAL ARCHITECTURE OF THE MOTOR NETWORK IN CIRCADIAN PHENOTYPES, TIME OF DAY AND THE LINK WITH PHYSICAL PERFORMANCE
Elise Facer-Childs, University of Birmingham

S63. SUBMISSION WITHDRAWN

S64. MATHEMATICAL MODEL OF NETWORK PLASTICITY OF THE CIRCADIAN CLOCK
Michael Antle, University of Calgary

S65. THE PHASE-SHIFTING EFFECT OF BRIGHT LIGHT ON THE HUMAN CIRCADIAN TRANSCRIPTOME
Laura Kervezee, McGill University

S66. MORNING CAFFEINE AND THE HUMAN CIRCADIAN CLOCK
Tina Burke, University of Colorado - Boulder

S67. THE DAILY RHYTHM OF HUMAN PHYSIOLOGICAL SLEEPINESS IN RESPONSE TO 40 H CONTINUOUS WAKEFULNESS REMAINS INTACT FOLLOWING BRAIN INSULT.
Maria St Pierre, Walter Reed Army Institute of Research

S68. THE ASSOCIATION OF MTNR1A POLYMORPHISMS WITH INCREASED LOW-DENSITY-LIPOPROTEIN LEVELS IN AFRICAN AMERICANS: FINDINGS FROM THE JACKSON HEART STUDY
Cynthia Tchio, Morehouse School of Medicine

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S69. INHALATION OF FINE PARTICULATE AIR POLLUTION EXACERBATES METABOLIC INJURY IN DYSSYNCHRONY.
Petra Haberzettl, University of Louisville

S70. THE NEUROSPORA CIRCADIAN CLOCK REGULATES GLYCOGEN METABOLISM VIA A COMBINATION OF TRANSCRIPTION FACTORS.
Christian Hong, University of Cincinnati College of Medicine

S71. ESTROGEN REGULATION OF DAILY METABOLIC RHYTHMS IN FEMALE MICE
Oluwabukola Omotola, University of Kentucky

S72. DEPOT AND FRACTION-SPECIFIC OSCILLATIONS DEFINE THE WHITE ADIPOSE TISSUE CIRCADIAN CLOCK IN VIVO
Aleix Ribas, The University of Texas Health Science Center at Houston

S73. CIRCADIAN RHYTHMS OF BIOLUMINESCENCE OF ENTEROBACTER AEROGENES IN A HETEROLOGOUS HOST IN VIVO
Jiffin Paulose, University of Kentucky

S74. EFFECTS OF CHRONIC CIRCADIAN CHALLENGE ON CORTICOSTEROID REGULATION IN MICE.
Harish Appiakannan, Rider University

S75. DIFFERENTIAL EFFECTS OF CIRCADIAN SYSTEM AND CIRCADIAN MISALIGNMENT ON INSULIN SENSITIVITY AND INSULIN SECRETION
Jingyi Qian, Brigham & Women's Hospital, Harvard Medical School

S76. α- AND β-CELLULAR CLOCKS IMPACT ON GLUCAGON AND INSULIN SECRETION IN MOUSE AND HUMAN MODELS
Charna Dibner, University of Geneva

S77. GENETIC PERTURBATION OF GLYCOLYTIC PATHWAY ALTERED CIRCADIAN RHYTHMS IN DROSOPHILA
SangHyuk Lee, Ajou University School of Medicine

S78. LINKING THE CIRCADIAN CLOCK AND METABOLISM
Rima Siauciunaite, University of Heidelberg

S79. SUR-8 COOPERATES WITH PP1-87B TO REGULATE PERIOD ABUNDANCE AND CIRCADIAN BEHAVIOR IN DROSOPHILA
Yongbo Xue, University of Nevada, Reno

S80. DEGRADATION OF THE CLOCK PROTEIN REVERBα BY THE E3 LIGASE SPSB4
Tsedey Mekbib, Morehouse School of Medicine

S81. NUTRIENT SENSING THROUGH THE RNA HELICASE PRD-1 IN REGULATION OF CIRCADIAN RHYTHMICITY IN NEUROSPORA CRASSA
Milad Falahat Chian, York University

S82. ALTERATION IN GLUCOSE HOMEOSTASIS AND PERSISTENCE OF THE PANCREATIC CLOCK IN AGED MPER2LUC MICE
Alena Sumova, Czech Academy of Sciences

S83. PERIOD 2 EXPRESSION IN EARLY CLEAVING MOUSE EMBRYOS AND EMBRYONIC STEM CELLS
Ann Kiessling, Bedford Research Foundation

S84. KAIB: LINKING ATP-HYDROLYSIS TO TIMEKEEPING AND OUTPUT SIGNALING IN THE CYANOBACTERIAL CLOCK
*Jeff Swan, UC Santa Cruz

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S85. RHYTHMIC PHASE CONTROL AND PERIOD COMPENSATION BY A CIRCADIAN TRANSCRIPTION FACTOR NETWORK
Jennifer Jung, Texas A&M University

S86. AMP-ACTIVATED PROTEIN KINASE (AMPK) REGULATES CIRCADIAN RHYTHM VIA AFFECTING CLOCK IN DROSOPHILA
Miri Kwon, Ajou University School of Medicine

S87. POST-TRANSCRIPTIONAL MRNA REGULATION IN DROSOPHILA CIRCADIAN NEURONS
Katharine Abruzzi, Howard Hughes Medical Institute; Brandeis University

S88. THE ROLE OF CA2+ IN REGULATING CIRCADIAN RHYTHMS
Dorota Nawrot, University of Oxford

S89. MYOD1 FUNCTIONS SYNERGISTICALLY WITH CIRCADIAN TRANSCRIPTION FACTORS BMAL1/CLOCK TO AMPLIFY CIRCADIAN GENE EXPRESSION IN SKELETAL MUSCLE
Xiping Zhang, University of Florida

S90. COMMON AND DISTINCT CIRCADIAN EXPRESSION OF CLOCK AND PHAGOCYTOSIS GENES IN ARPE-19 MONOLAYERS AND DISSOCIATED CELL CULTURES
Nemanja Milicevic, Academic Medical Center (AMC) Amsterdam

S91. CIRCADIAN CLOCK ACTIVITY OF CRYPTOCHROME RELIES ON TRYPTOPHAN-MEDIATED PHOTOREDUCTION
Changfan Lin, Cornell University

S92. CIRCADIAN CLOCK REGULATES MELANIN PIGMENTATION IN MOUSE AND HUMAN
Soumyadeep Sarkar, Washington State University

S93. TRANSLATIONAL SWITCHING OF PROTEIN EXPRESSION USING GENETIC CODE EXPANSION CAN CONTROL MOUSE CIRCADIAN BEHAVIOUR.
Elizabeth Maywood, MRC-Laboratory of Molecular Biology

S94. REMOVAL OF BMAL1 ALTERS VIABILITY OF CONE PHOTORECEPTOR LIKE CELL LINE
Kenkichi Baba, Morehouse School of Medicine

S95. HITS-CLIP REVEALS NONCODING RNAS AS TARGETS OF NOCTURNIN
Peng Gao, UT Southwestern Medical Center

S96. MOLECULAR CIRCADIAN TIMEKEEPING IN MAMMALIAN CELLS WITHOUT CRYPTOCHROMES
David Wong, University of Cambridge

S97. REGULATION OF MITOCHONDRIAL RESPIRATION BY THE CIRCADIAN DEADENYLASE NOCTURNIN
*Isara Laothamatas, UT Southwestern Medical Center

S98. NUTRIENT SENSITIVE O-GLCNACYLATION OF PERIOD REGULATES ITS INTERACTION WITH CLOCK AND PREVENTS PREMATURE INITIATION OF TRANSCRIPTIONAL REPRESSION IN CIRCADIAN RHYTHMS
*Ying Li, UC Davis

S99. BUILDING A PICTURE OF THE NEUROSPORA CRASSA CIRCADIAN CLOCK AT THE ATOMIC LEVEL.
Daniyal Tariq, Cornell University

S100. REGULATION OF PERIOD 2'S ACCUMULATION VIA THE E3 UBIQUITIN PROTEIN LIGASE MDM2 INFLUENCES CIRCADIAN OSCILLATION
*Xianlin Zou, Virginia Tech

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S101. PHOSPHORYLATION OF SLIMB BY MINIBRAIN/DYRK1A PROMOTES SLIMB-MEDIATED CIRCADIAN CLOCK PROTEIN DEGRADATION
+Adam Contreras, University of California, Davis

S102. THERMAL CONTROL OF CIRCADIAN RHYTHMS
Swathi Yadlapalli, University of Michigan

S103. NON-PHOTIC SHIFTS WITH A COCKTAIL OF NPY AND CARBACHOL
Naila Jamani, University of Calgary

S104. CALCITONIN RECEPTORS ARE ANCIENT MODULATORS FOR RHYTHMS OF PREFERENTIAL TEMPERATURE IN INSECTS AND BODY TEMPERATURE IN MAMMALS
Fumika Hamada, Cincinnati Children's Hospital Medical Center

S105. TEMPERATURE-AMPLITUDE COUPLING FOR STABLE BIOLOGICAL RHYTHMS
Gen Kurosawa, Theoretical Biology Lab, RIKEN

S106. LIMORHYDE: A FLEXIBLE APPROACH FOR DIFFERENTIAL ANALYSIS OF RHYTHMIC TRANSCRIPTOME DATA
Jacob Hughey, Vanderbilt University School of Medicine

S107. GENOME-WIDE DISCOVERY OF THE DAILY TRANSCRIPTOME, CIS-REGULATORY ELEMENTS AND TRANSCRIPTION FACTOR FOOTPRINTS IN THE MONARCH BUTTERFLY BRAIN
*Aldrin Lugena, Texas A&M University

S108. MODELING SPATIAL INFORMATION PROCESSING IN THE SUPRACHIASMATIC NUCLEUS
Adam Stinchcombe, University of Toronto

S109. MORTALITY RATE OF AGED WILD-TYPE AND V1A–/–V1B–/– MICE UNDER A CHRONIC JET LAG CONDITION
Yoshiaki Yamaguchi, Kyoto University

S110. SCN HETEROGENEITY REVEALED THROUGH DEVELOPMENTAL PATTERNING OF NEUROPEPTIDE EXPRESSION
Vania Carmona-Alcocer, Marquette University

S111. THE ROLE OF SUPRACHIASMATIC VIP NEURONS ON THE CIRCADIAN PROFILE OF PARAVENTRICULAR HYPOTHALAMIC NEURONS
Sarika Paul, University or Manchester

S112. EFFECTS OF THE ISOLATION OF SUPRACHIASMATIC NUCLEUS ON CIRCADIAN RHYTHMICITY
Takahiro Nakamura, Meiji University

S113. THE ARCHITECTURE OF MAMMALIAN MASTER CIRCADIAN CLOCK SCN
Lucheng Xie, Institute of Neuroscience, Chinese Academy of Sciences

S114. DOPAMINE SIGNALING IN THE CENTRAL PACEMAKER REGULATES CIRCADIAN PHASE OF ENERGY DENSE FOOD CONSUMPTION
Ryan Grippo, University of Virginia

S115. THE SCN STABILIZES AROUSAL EPISODES DURING HIBERNATION OF GOLDEN-MANTLED SQUIRRELS.
Patricia DeCoursey, University of South Carolina

S116. DAYTIME SLEEP FOLLOWING NIGHT SHIFTS- THE IMPACT OF LIGHT INTENSITY
Torhild Pedersen, University of Bergen

S117. STATISTICAL NOISE IN SLEEP-REGULATING NEURAL NETWORKS CAN REPRODUCE THE FRAGMENTARY NATURE OF HUMAN SLEEP
Ameneh Asgari-Targhi, Brigham and Women Hospital

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

S118. METABOLIC RECOVERY AFTER 8 DAYS OF SLEEP RESTRICTION: ADVERSE IMPACT OF CIRCADIAN MISALIGNMENT
Rachel Leproult, Université libre de Bruxelles

S119. GLYMPHATIC FLUID INFLUX IS UNDER DIURNAL CONTROL.
Lauren Hablitz, University of Rochester

S120. THE ROLE OF LIGHT IN REGULATING ALERTNESS AND PERFORMANCE IN MICE
Stuart Peirson, University of Oxford

S121. A TWO-PROCESS MODEL OF SLEEP IN DROSOPHILA MELANOGASTER
Nathaniel Hermann, University of Miami

S122. ASSOCIATION OF SINGLE-NUCLEOTIDE POLYMORPHISMS IN PERIOD 1 AND PERIOD 2 WITH RESILIENCY OF NEUROBEHAVIORAL PERFORMANCE AND CAFFEINE SENSITIVITY UNDER REPEATED CYCLES OF TOTAL SLEEP DEPRIVATION
Lillian Skeiky, Center for Military Psychiatry and Neuroscience, Walter Reed Army Institute of Research

S123. ACTIVE TIME-RESTRICTED FEEDING RESTORES THE BLOOD PRESSURE CIRCADIAN RHYTHM VIA SYMPATHETIC NERVOUS SYSTEM IN TYPE 2 DIABETIC DB/DB MICE
Tianfei Hou, University of Kentucky

S124. ROLE OF INFLAMMATORY SIGNALING IN MODULATING THE MACROPHAGE CIRCADIAN CLOCK
Shan Chen, Geisel School of Medicine at Dartmouth

Monday, May 14

M1. PATERNAL COCAINE DISRUPTS OFFSPRING CIRCADIAN CLOCK FUNCTION IN A SEX DEPENDENT MANNER IN MICE
Alexandra Yaw, Kent State University

M2. DISTINCT CIRCADIAN RHYTHMS OF CIRCULATING ENDOCANNABINOIDS (ECB), 2-ARACHIDONOYLGLYCEROL (2-AG) AND ANANDAMIDE (AEA)
+Erin Hanlon, The University of Chicago

M3. AGING AND CIRCADIAN DISRUPTION INCREASE THE BEHAVIORAL SENSITIVITY TO ALCOHOL AND ALCOHOL-INDUCED PATHOLOGIES.
Aliza De Nobrega, Florida State University

M4. NEURAL ACTIVITY DURING METHAMPHETAMINE ANTICIPATION IN A NON-INVASIVE SELF-ADMINISTRATION PARADIGM
Rae Silver, Columbia University

M5. MODELING PHOTOPERIOD PROCESSING IN A SUBTERRANEAN RODENT
#Danilo Flôres, University of Sao Paulo

M6. EFFECTS OF NEONICOTINOID PESTICIDES ON CIRCADIAN LOCOMOTOR RHYTHMS OF HONEY BEE FORAGERS
Douglas McMahon, Vanderbilt University

M7. THE EFFECT OF GENERAL ANESTHESIA ON LOCOMOTOR RHYTHMS IN MICE
Alma Orts-Sebastian, University of Auckland

M8. CIRCADIAN SYSTEM ORGANIZATION IN THE DIURNAL FOUR-STRIPED GRASS MOUSE, RHABDOMYS PUMILIO
Beatriz Bano-Otalora, University of Manchester

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M9. EFFECTS OF AGING ON THE CIRCADIAN CLOCKWORKS AND ITS OUTPUTS IN THE COLON OF THE AGED LABORATORY MOUSE
Vincent Cassone, University of Kentucky

M10. ENVIRONMENTAL TIME CUES INFLUENCING CIRCADIAN EMERGENCE RHYTHMS OF A SPRING-EMERGING SOLITARY BEE (OSMIA BICORNIS)
Charlotte Helfrich-Förster, University Wuerzburg

M11. QUANTIFYING CIRCADIAN CHARACTERISTICS OF HUMAN BREAST CANCER CELLS
Stephanie Taylor, Colby College

M12. SUBMISSION WITHDRAWN

M13. INCOMPATIBILITY OF BMAL1 AND HNF4α IN HEPATOCELLULAR CARCINOMA
*Baharan Fekry, Institute of Molecular Medicine the University of Texas Health Science center

M14. CHEMICAL MODULATION OF CIRCADIAN RHYTHMS FOR THE STUDY OF CANCER
Michelle Farkas, University of Massachusetts Amherst

M15. AGING DISRUPTS DIURNAL RHYTHMS IN CORE HOMEOSTATIC FUNCTIONS OF MACROPHAGES
Connie Tsai, Stanford University

M16. DIFFERENTIAL THERMOREGULATORY AND INFLAMMATORY PATTERNS IN THE CIRCADIAN RESPONSE TO LPS-INDUCED SEPTIC SHOCK
Diego Golombek, Universidad Nacional de Quilmes

M17. BMAL1 IN FIBROBLAST LIKE SYNOVIOCYTES IS CRITICAL FOR MAINTAINING JOINT HEALTH AND REGULATING CHRONIC INFLAMMATION.
Julie Gibbs, University of Manchester

M18. REGULATION OF STEADY STATE PLASMA HISTAMINE LEVELS BY THE MAST CELL CLOCK
Yuki Nakamura, University of Yamanashi

M19. THE CIRCADIAN TRANSCRIPTION FACTOR NPAS2 REGULATES OPIOID REWARD
Gabrielle Kaplan, University of Pittsburgh

M20. REDUCED CIRCADIAN LIGHT SENSITIVITY IN MAJOR DEPRESSION.
Elise McGlashan, Monash Institute of Cognitive and Clinical Neurosciences, School of Psychological Sciences, Monash University, Melbourne, Australia

M21. CIRCADIAN DISRUPTION DECREASES CELLULAR DETERRENCE OF HIV INFECTION
+Atlantis Hill, Morehouse School of Medicine

M22. BIOLOGICAL RHYTHMS IN ASTHMA: IMPLICATIONS FOR CLINICAL PRACTICE.
Hannah Durrington, University of Manchester

M23. CONSTANT LIGHT EXPOSURE INCREASES ATHEROSCLEROSIS IN APOLIPOPROTEINE-DEFICIENT MICE
Jeffrey Chalfant, University of Kentucky

M24. DISRUPTING A CIRCADIAN CLOCK MECHANISM THAT REGULATES MYOGENIC REACTIVITY MITIGATES CARDIAC INJURY IN HEART FAILURE
Jeff Kroetsch, University of Toronto Faculty of Medicine

M25. ME: HANDSOME MALARIA PARASITE. YOU: PUNCTUAL HOST THAT EXERCISES INFREQUENTLY & LOVES DINNER. LET'S GET TOGETHER.
Aidan O'Donnell, University of Edinburgh

M26. DIURNAL NATRIURETIC RESPONSE TO ENAC INHIBITION IN SPRAGUE DAWLEY RATS
Reham Soliman, University of Alabama at Birmingham

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M27. NEONATAL MONOSODIUM GLUTAMATE TREATMENT ALTERS THE OUTCOME TO REPETITIVE MILD TRAUMATIC BRAIN INJURY IN ADOLESCENT RATS: BEHAVIORAL, CIRCADIAN, AND EPIGENETIC CHANGES.
Glenn Yamakawa, University Of Calgary

M28. CIRCADIAN DISRUPTION LINKAGES TO ORAL HEALTH CONDITIONS
Petros Papagerakis, University of Saskatchewan

M29. SOCIAL JET LAG EVOKES DROSOPHILA CIRCADIAN NEURAL NETWORK DESYNCHRONY
Ceazar Nave, University of California Irvine

M30. THE ROLE OF THE FOREBRAIN AROUSAL SYSTEM IN NONPHOTIC ENTRAINMENT
Mahtab Moshirpour, University of Calgary

M31. RESTRICTED FEEDING ALTERS DAYLIGHT SENSITIVITY OF THE CIRCADIAN CLOCK
Jens Hannibal, University of Copenhagen, Bispebjerg Hospital

M32. ADDITIVE CONTRIBUTIONS OF MELANOPSIN AND BOTH CONE TYPES TO MOUSE PUPILLARY CONTROL
Edward Hayter, University of Manchester

M33. THE EFFECT OF SEASONAL CUES ON PHOTORECEPTOR GENE EXPRESSION IN MICE
Kousuke Okimura, Nagoya University

M34. OME INTERACTS WITH ACTIN AND ENHANCES EYE-MEDIATED LIGHT SENSITIVITY OF THE CIRCADIAN CLOCK IN DROSOPHILA MELANOGASTER
Gabriella Mazzotta, Universita' di Padova

M35. PHOTIC SYNCHRONIZERS IN POPULATIONS
Michael Herf, f.lux Software LLC

M36. IPRGC PHOTOTRANSDUCTION COMPONENTS DIFFERENTIALLY INFLUENCE MELANOPSIN-DEPENDENT LIGHT MEDIATED BEHAVIORS
*Jennifer Langel, National Institute of Mental Health

M37. ECOLOGICAL COMMUNITY SIMULATION SUGGESTS COMPETITION CAN DRIVE EVOLUTION OF CIRCADIAN RHYTHMS
*Vance Gao, Northwestern University

M38. CHRONOBIOLOGY AND THE DESIGN OF MARINE BIOLOGY EXPERIMENTS
Audrey Mat, Université de Bretagne Occidentale

M39. A ROLE FOR BIOLOGICAL RHYTHMS IN SEASONAL ADAPTATION AND SPECIATION
Andrew Nguyen, University of Florida

M40. DIURNAL HETEROGENEITY OF GLIA IN THE MOLECULAR LAYER OF HIPPOCAMPAL DENTATE GYRUS
Martha Gillette, University of Illinois Urbana-Champaign

M41. REST-ACTIVITY CYCLES DRIVE DYNAMICS OF PHOSPHORYLATION IN CORTICAL SYNAPSES
*Franziska Brüning, Max Planck Institute of Biochemistry

M42. THE MUSCLE CLOCK ALTERS MUSCLE STRENGTH THROUGH CHANGES IN TITIN SPLICING AND SARCOMERE LENGTH
*Lance Riley, University of Florida

M43. CIRCADIAN LOCOMOTOR ACTIVITY IS ALTERED BY SELECTIVE KNOCKDOWN OF BMAL1 IN SKELETAL MUSCLE
+India Nichols-Obande, University of California, Los Angeles

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M44. THE TIME DEPENDENCE OF FIRING BEHAVIOR AND ITS RELATION TO INTERNAL CLOCK IN DISASSOCIATED HIPPOCAMPAL NEURONS
Sinem Sertel, IMPRS - University of Göttingen

M45. A ROLE FOR THE ASTROCYTE CIRCADIAN CLOCK IN STROKE RECOVERY
Jeremy Stubblefield, UT Health San Antonio

M46. CORTICOSTERONE AS A POTENTIAL SYNCHRONIZER OF DIURNAL RHYTHMS IN A BRAINSTEM FEEDING CIRCUIT
*Forrest Shaffer, Washington State University

M47. THE FREQUENCY OF TH17 CELLS IN THE SMALL INTESTINE EXHIBITS A DAY-NIGHT VARIATION DEPENDENT ON CIRCADIAN CLOCK ACTIVITY
Ha Le, University of Yamanashi

M48. IMPACT OF DIET ON TIME-OF-DAY DEPENDENT RHYTHMS IN SHORT-TERM MEMORY
Jennifer Davis, University of Alabama at Birmingham

M49. PREBIOTIC TREATMENT STIMULATES CHANGES IN THE MICROBIOTA ALTERING THE LOCOMOTOR ACTIVITY AND FREE RUNNING PERIOD OF MICE IN A FIBER-TYPE DEPENDING MANNER
Fabian Preuss, University of Wisconsin-Parkside

M50. CIRCADIAN CLOCK OF ENTEROBACTER AEROGENES
*+Kinga Graniczkowska, University of Kentucky

M51. TIME-RESTRICTED FEEDING IS A PROMISING STRATEGY TO ALLEVIATE EFFECTS OF CIRCADIAN RHYTHM DISTURBANCES ON ATHEROSCLEROSIS
Martijn Dollé, National Institute of Public Health and the Environment (RIVM)

M52. ANIMAL MODEL SYSTEMS TO STUDY THE IMPACT OF SHIFT WORK AND SOCIAL JET LAG ON SLEEP PATTERNS AND HEALTH OUTCOMES
Astrid Streng, Erasmus MC / RIVM

M53. MILLISECOND LIGHT FLASHES TO SHIFT CIRCADIAN PHASE
Daniel Joyce, Stanford University

M54. ASSOCIATIONS BETWEEN CHRONOTYPE, MORBIDITY AND MORTALITY IN THE UK BIOBANK COHORT
Kristen Knutson, Feinberg School of Medicine, Northwestern University, Chicago

M55. MOLECULAR CHARACTERIZATION OF THE EFFECTS OF SHIFT WORK AND FOOD CONSUMPTION ON METABOLIC AND CARDIOVASCULAR FUNCTIONS IN THE RAT
Alexandra Trott, Texas A&M University

M56. LOWEST PERCEIVED EXERTION IN THE LATE MORNING IS DRIVEN BY THE CIRCADIAN SYSTEM.
Maya Herzig, Oregon Health & Science University

M57. MATHEMATICAL MODELING FOR PACEMAKER-NEURON-DEPENDENT MOLECULAR RHYTHM ALTERATION BY DROSOPHILA CLOCK MUTANT
Euimin Jeong, KAIST

M58. LOW DIMENSIONAL MODELS FOR HUMAN CIRCADIAN RHYTHMS
Kevin Hannay, Schreiner University

M59. PARTICIPATORY CHRONOBIOLOGY: ANALYSES OF SKIN TEMPERATURE CHARACTERIZE JETLAG IN THE QS COMMUNITY
*Azure Grant, University of California, Berkeley

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M60. PATIENTS WITH DELAYED SLEEP-WAKE PHASE DISORDER (DSWPD) SHOW INCREASED CIRCADIAN PHASE VARIABILITY
Lauren A. Watson, Monash Institute of Cognitive and Clinical Neurosciences, School of Psychological Sciences, Monash University, Melbourne, Australia

M61. SLEEP WITH AND WITHOUT ACCESS TO ARTIFICIAL LIGHT ON TANNA ISLAND, VANUATU
*Andrea Smit, Simon Fraser University

M62. IMPACT OF NIGHT-TO-NIGHT VARIABILITY IN SLEEP PARAMETERS ON SLEEP COMPLAINT AND SLEEP QUALITY
Hylton Molzof, University of Alabama

M63. DESIGN OF DIURNAL LIGHT CONDITIONS FOR IMPROVED SLEEP IN DEMENTIA - AN INTERVENTION STUDY
Gunnhild Hjetland, University of Bergen/Bergen Municipality

M64. THE IMPACT OF LIGHT DURING SLEEP ON SYMPATHETIC FUNCTION IN OLDER ADULTS
Virginie Gabel, Department of Psychiatry and Behavioral Sciences, Stanford School of Medicine

M65. TRAIT-LIKE INDIVIDUAL DIFFERENCES IN PAIN AND CARDIOVASCULAR REACTIVITY FOLLOWING DAYS OF SLEEP RESTRICTION AND CIRCADIAN MISALIGNMENT
Kate Sprecher, University of Colorado Boulder

M66. LEUCOKININ NEURONS ARE CELL-AUTONOMOUS NUTRIENT SENSORS THAT REGULATE SLEEP-METABOLISM INTERACTIONS
*Maria Yurgel, Florida Atlantic University

M67. THE EFFECTS OF MATERNAL OBESITY ON DAILY RHYTHMS IN FEMALE OFFSPRING
Josie Llanora, University of Kentucky

M68. CHRONIC HIGH FAT DIET DISRUPTS RENAL MOLECULAR CLOCK
Dingguo Zhang, University of Alabama at Birmingham

M69. REQUIREMENT FOR NEURONAL CLOCK IN DAILY APPETITE RHYTHMS AND LIVER GLUCOSE METABOLISM
Jonathan Cedernaes, Northwestern University

M70. HYPOTHALAMIC REPRODUCTION CIRCUITS ALSO REGULATE BODY MASS IN THE SIBERIAN HAMSTER, PHODOPUS SUNGORUS
#Fernando Cázarez-Márquez, Institut des Neurosciences Cellulaires et Intégratives (INCI), Netherlands Institute for Neuroscience (NIN), Academic Medical Center (AMC)

M71. METABOLIC INPUT REGULATES CIRCADIAN PHYSIOLOGY THROUGH O-GLCNACYLATION
*Xianhui Liu, University of California, Davis

M72. CONSTANT LIGHT ALTERS SERUM HORMONE LEVELS RELATED TO METABOLISM IN MALE CD-1 MICE
Madison Chasse, Bridgewater State University

M73. REV-ERBα MODULATION OF ADIPOSE TISSUE FUNCTION DURING DIET INDUCED OBESITY
Charlotte Pelekanou, University of Manchester

M74. MAMMALIAN CIRCADIAN PERIOD, BUT NOT PHASE AND AMPLITUDE, IS ROBUST AGAINST REDOX AND METABOLIC PERTURBATIONS
Marrit Putker, Hubrecht Institute

M75. SPHINGOLIPIDS AROUND THE CLOCK: THE IMPACT OF SPHINGOSINE KINASE 1 ON THE ADIPOCYTE CIRCADIAN TRANSCRIPTION COMPLEX
Andrea Anderson, Medical University of South Carolina/Virginia Commonwealth University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M76. DAILY RHYTHMS OF EATING BEHAVIOR ARE NOT AFFECTED BY HIGH-FAT DIET FEEDING IN OBESITY-RESISTANT MALE MICE
Tiffany Buckley, University of Kentucky

M77. CIRCADIAN DISRUPTION CAUSES METABOLIC DEFICITS AND ALTERED HORMONAL SIGNALLING
Nathan Skinner, The University of Otago

M78. RAS-MEDIATED PATHWAYS IN THE METABOLIC REGULATION OF THE CIRCADIAN CLOCK
Anita Szőke, Semmelweis University

M79. BROWN ADIPOSE TISSUE THERMOGENESIS OSCILLATIONS REQUIRE CNS CIRCADIAN CLOCKS
Georgios Paschos, University of Pennsylvania

M80. MELATONIN AGONIST TREATS REPETITIVE BEHAVIORAL DEFICITS IN THE CNTNAP2 MOUSE MODEL OF NEURODEVELOPMENTAL DISORDERS.
**Huei-Bin Wang, UCLA

M81. UNDERSTANDING THE MOLECULAR MECHANISMS UNDERLYING PHOTOPERIODIC TIME MEASUREMENT IN DROSOPHILA MELANOGASTER
Antoine ABRIEUX, UC Davis

M82. PSI CONTROLS TIM SPLICING AND CIRCADIAN PERIOD IN DROSOPHILA
*Lauren Foley, University of Massachusetts Medical School

M83. POSITIVE FEEDBACK KEEPS CIRCADIAN RHYTHMS TICKING.
*Matthias Schlichting, Brandeis University

M84. SUBMISSION WITHDRAWN

M85. DAYTIME CHANGES OF ARCUATE NUCLEUS ELECTRICAL OUTPUT ARE DRIVEN BY A LOCAL CLOCKWORK AND ARE ACCOMPANIED BY CHANGES IN GABAERGIC NETWORK ACTIVITY.
Adam Watson, University of Manchester

M86. THE GLUCOCORTICOID RECEPTOR AND REV-ERB ALPHA INTERACT IN THE CIRCADIAN REGULATION OF INFLAMMATION
Polly Downton, University of Manchester

M87. RHYTHMIC ION FLUXES AND CELLULAR TIMEKEEPING
*Alessandra Stangherlin, MRC Laboratory of Molecular Biology

M88. CISPLATIN-DNA ADDUCT REPAIR OF TRANSCRIBED GENES IS CONTROLLED BY TWO CIRCADIAN PROGRAMS IN MOUSE TISSUES
Yanyan Yang, University of North Carolina at Chapel Hill

M89. CHARACTERIZATION OF TISSUE-SPECIFIC BMAL1 CISTROMES REVEALS NEW ROLES FOR ENHANCER-ENHANCER INTERACTIONS IN REGULATING RHYTHMIC TRANSCRIPTION
Joshua Beytebiere, Texas A&M University

M90. REGULATION OF POL II PAUSING IS INVOLVED IN DAILY GENE TRANSCRIPTION IN THE MOUSE LIVER
Xiaodong Li, Wuhan University

M91. CIRCADIAN REGULATED PROTEIN INTERACTION NETWORKS LINKED TO DNA REPAIR AND CELL CYCLE REGULATION
Christopher Depner, University of Colorado Boulder

M92. CHARACTERIZATION OF DIURNAL SODIUM HANDLING IN THE BMAL1 KNOCKOUT RAT
Jermaine Johnston, University of Alabama at Birmingham

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M93. A TALE OF TWO CRYS: IDENTIFYING THE BIOCHEMICAL DETERMINANTS OF THEIR DIFFERENTIAL REGULATION OF CIRCADIAN TIMEKEEPING
*Jennifer Fribourgh, UCSC

M94. TGFBETA INHIBITS THE SYNCHRONIZATION OF CIRCADIAN TRANSCRIPTION BY REPROGRAMMING 3D GENOME ORGANIZATION
Carolina Diettrich Mallet de Lima, Karolinska Institutet

M95. A NOVEL RNA-BINDING PROTEIN CONTRIBUTES TO THE CIRCADIAN PERIOD LENGTH OF THE NEUROSPORA CLOCK
Christina Kelliher, Geisel School of Medicine at Dartmouth

M96. CIRCADIAN CHARACTERISTICS AND A POSSIBLE MECHANISM OF A DAMPED TRANSCRIPTIONAL OSCILLATION WITHOUT KAIA
Naohiro Kawamoto, Waseda University,

M97. CIRCADIAN CONTROL OF UV-RESISTANCE IN CYANOBACTERIA, POSSIBLY BASED ON A TRADE-OFF BETWEEN ENERGY PRODUCTION AND STRESS RESPONSE
Koji Kawasaki, Waseda University

M98. CHARACTERIZING THE ROLE OF NOCTURNIN AS A DEADENYLASE
Anushka Wickramaratne, University of Texas Southwestern Medical Center

M99. AKT PHOSPHORYLATION RHYTHMS AS A MOLECULAR LINK BETWEEN HYPOXIA AND THE CIRCADIAN CLOCK
Rona Aviram, Weizmann Institute of Science

M100. IDENTIFICATION OF NOVEL KINASES/PHOSPHATASES REGULATING PERIOD LENGTH AND TEMPERATURE COMPENSATION
Adrienne Mehalow, Geisel School of Medicine at Dartmouth

M101. SKIN IN THE CIRCADIAN GAME: POPULATION LEVEL ANALYSIS OF TRANSCRIPTIONAL RHYTHMS IN HUMAN SKIN
Gang Wu, Cincinnati Children's Hospital

M102. SUBMISSION WITHDRAWN

M103. THE CORTICAL SYNAPTIC TRANSCRIPTOME: ORGANIZED BY CLOCKS, DRIVEN BY SLEEP
Sara Bernardez Noya, University of Zurich

M104. TIMED RESTRICTED FEEDING IN MICE ALTERS GENE EXPRESSION IN THE SCN.
Timothy Niepokny, Kent State University

M105. INDUCING OLIGODENDROCYTE PROGENITOR CELLS FROM THE ADULT MOUSE SUPRACHIASMATIC NUCLEUS TO UNDERGO NEUROGENESIS IN VITRO
Michael Geusz, Bowling Green State University

M106. LOOKING OUTSIDE THE CLOCK: EXPRESSION AND LOCALIZATION PATTERNS OF EXTRACELLULAR MATRIX MOLECULES IN THE SUPRACHIASMATIC NUCLEUS.
+Kathryn Abrahamsson Halter, University of Tennessee

M107. PROBING THE CIRCADIAN FUNCTIONS OF THE VIP-VPAC2 MICRO-CIRCUIT OF THE MOUSE SUPRACHIASMATIC NUCLEUS
*Nicola Smyllie, MRC Laboratory of Molecular Biology

M108. MTOR SIGNALING REGULATES CIRCADIAN CLOCK SYNCHRONY VIA VIP NEURONS
Ruifeng Cao, The University of Minnesota

M109. SKELETON PHOTOPERIOD IS SUFFICIENT TO ENCODE DAY LENGTH IN THE SCN
*Anneke Olde Engberink, Leiden University Medical Center

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

M110. LOCALIZATION OF PHOTOPERIOD SENSITIVE CIRCADIAN OSCILLATORS IN THE MOUSE SUPRACHIASMATIC NUCLEUS
Tomoko Yoshikawa, Kindai University Faculty of Medicine

M111. BEHAVIORAL AND MOLECULAR RHYTHMS IN A MOUSE MODEL LACKING VIP
Deborah May, Marquette University

M112. TRACING CONNECTIONS AND INPUTS/OUTPUTS OF THE DROSOPHILA CLOCK
Edgar Buhl, University of Bristol

M113. PHOTOPERIOD-INDUCED NEUROTRANSMITTER SWITCHING IN THE SUPRACHIASMATIC NUCLEUS
Alessandra Porcu, University of California, San Diego

M114. A NOVEL FUNCTION OF GABA IN THE MOUSE SUPRACHIASMATIC NUCLEUS: REFINEMENT OF CIRCADIAN OUTPUT RHYTHMS
Daisuke Ono, Nagoya University

M115. SLEEP AND CIRCADIAN PHENOTYPES ASSOCIATE WITH INCREASED REWARD-RELATED BEHAVIOR DURING ADOLESCENCE
Mariah Hildebrand, University of Pittsburgh

M116. THE ROLE OF SLEEP IN MODULATING ALCOHOL SENSITIVITY AND TOXICITY IN DROSOPHILA
Eric Noakes, Florida State University

M117. EFFECTS OF CHRONIC SLEEP RESTRICTION ON STRESS-INDUCED ALTERATIONS IN SLEEP ARE MITIGATED BY PRE-IMMUNIZATION WITH MYCOBACTERIUM VACCAE NCTC11659
**Samuel Bowers, Vanda Pharmaceuticals Excellence Awardee, Northwestern University

M118. DEC2 MODULATES OREXIN EXPRESSION AND REGULATES SLEEP
Louis Ptacek, UCSF

M119. DECODING THE SLEEP HOMEOSTAT ARCHITECTURE
Andrey Lazopulo, University of Miami

M120. OREXIN ALLEVIATES COGNITIVE IMPAIRMENTS INDUCED BY DAYTIME DIM LIGHT IN THE DIURNAL NILE GRASS RAT (ARVICANTHIS NILOTICUS).
+Joel Soler, Michigan State University

M121. INVESTIGATING THE MOLECULAR BASIS OF SLEEP DYSREGULATION IN MYOTONIC DYSTROPHY
*Belinda Pinto, University of Florida

M122. GENERATION OF A CONDITIONAL REPORTER MOUSE LINE BY MODIFICATION OF THE DBP LOCUS
David Weaver, University of Massachusetts Medical School

M123. AN INTEGRATIVE APPROACH TO DISSECT THE TISSUE-SPECIFIC GENE REGULATORY NETWORKS CONTROLLING THE DROSOPHILA CIRCADIAN CLOCKS
**Antonio Meireles-Filho, Konopka Excellence Awardee, EPFL

M124. A HOMEOSTASIS REGULATOR SIK3 DIRECTS CIRCADIAN RHYTHMS AND SLEEP THROUGH MULTIPLE DOWNSTREAM SUBSTRATES
Naoto Hayasaka, Nagoya University

M125. CIRCADIAN ADAPTATION AFTER CONSECUTIVE NIGHT SHIFTS IN POLICE OFFICERS ON A ROTATING SCHEDULE
Laura Kervezee, McGill University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Tuesday, May 15

T1. DIURNAL VARIATION IN REWARD-RELATED AND LEARNING BEHAVIORS
Taylor Stowe, Wake Forest School of Medicine

T2. MODELLING AGE RELATED CHANGES IN THE CIRCADIAN SYSTEM USING DROSOPHILA MELANOGASTER
Jack Curran, University of Bristol

T3. DISTINCT NEURONAL BASIS FOR MOTIVATIONAL LOCOMOTOR ACTIVITY: THE CIRCADIAN AND DOPAMINERGIC SYSTEMS
*Meghana Holla, HHMI/Brandeis University

T4. APPROACHING PHOTOPERIODISM IN A SUBTERRANEAN SOUTH AMERICAN RODENT
Gisele Oda, Instituto de Biociencias, Universidade de São Paulo

T5. CIRCADIAN ALIGNMENT OF THE MOTHER PREVENTS DEVELOPMENT OF THE OFFSPRING'S PATHOLOGICAL PHENOTYPE
Alena Sumova, Institute of Physiology, Czech Academy of Sciences

T6. MICE LACKING THE GLUA1 GLUTAMATE RECEPTOR SUBUNIT (GRIA1) SHOW REDUCED AMPLITUDE ACTIVITY RHYTHMS WITH INCREASED FRAGMENTATION.
Laurence Brown, University of Oxford

T7. HETEROGENEITY IN THE PINEAL INDOLE METABOLISM AMONG DOMESTIC BIRDS
Bogdan Lewczuk, University of Warmia and Mazury in Olsztyn, Poland

T8. DIEL CHANGES IN THE MOLECULAR PHYSIOLOGY OF FRESH WATER FISH GILL
Laura-Ana Cuciureanu, York University, Toronto, Canada

T9. IDENTIFICATION OF QTL DETERMINING DIEL FLIGHT ACTIVITY IN MALE CULEX PIPIENS MOSQUITOES FROM AUTOGENOUS AND ANAUTOGENOUS STRAINS
Giles Duffield, University of Notre Dame

T10. DIURNAL VARIATION OBSERVED IN RESPONSE TO THE AVERSIVE EFFECTS OF ALCOHOL
+Allison Clark, Oregon Health & Science University

T11. CONTRIBUTION OF THE CIRCADIAN CLOCK IN CANCER-INDUCED HYPERSOMNOLENCE - A ZEBRAFISH MODEL
Ghislain Breton, University of Texas Health Science Center

T12. ONCOGENIC MYC DISRUPTS CIRCADIAN TRANSCRIPTIONAL AND METABOLIC OSCILLATION
Brian Altman, The Wistar Institute

T13. SUBMISSION WITHDRAWN

T14. THE CIRCADIAN CLOCK PROTEIN BMAL1 REGULATES IL-1β IN MACROPHAGES VIA NRF2
Annie Curtis, Royal College of Surgeons in Ireland

T15. PHENOTYPING SLEEP AND CIRCADIAN RHYTHMS IN APP/PS1 AND APP/PS1XPER2::LUC MOUSE MODELS OF ALZHEIMER'S DISEASE.
Mateusz Michalik, Simon Fraser University

T16. SLEEP AND EEG POWER SPECTRAL ANALYSIS IN THREE TRANSGENIC MOUSE MODELS OF ALZHEIMER'S DISEASE: APP/PS1, 3XTGAD, AND TG2576
Brianne Kent, University of British Columbia

T17. SLEEP AND CIRCADIAN DISRUPTION IN DEPRESSION - A MARKER AND PREDICTOR FOR THERAPEUTIC SUCCESS?
Anna Biller, Institute for Medical Psychology

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T18. CHARACTERIZATION OF CIRCADIAN BEHAVIOUR IN THE BTBR MOUSE MODEL OF AUTISM SPECTRUM DISORDER
Jhenkruthi Vijaya Shankara, University of Calgary

T19. USING OPTOGENETICS TO DETERMINE THE ROLE OF THE SUPRACHIASMATIC NUCLEUS IN MOOD REGULATION
*Chelsea Vadnie, University of Pittsburgh

T20. ACTOGRAM-STYLE EATOGRAMS REVEAL ASSOCIATION BETWEEN FOOD-INTAKE-TIMING VARIABILITY AND (HYPO)MANIC SYMPTOMS IN BIPOLAR DISORDERS
Clément Bourguignon, McGill University

T21. SYMPTOMS OF UNMEDICATED MAJOR DEPRESSIVE DISORDER ARE ASSOCIATED WITH CIRCADIAN MISALIGNMENT
Michelle Coleman, Monash University

T22. GENOMIC PROFILING OF PHOTIC-REGULATED GENES IN TWO SPECIES OF THE MALARIA MOSQUITO ANOPHELES GAMBIAE COMPLEX
Giles Duffield, University of Notre Dame

T23. CIRCADIAN-BASED TREATMENT STRATEGY EFFECTIVE IN THE BACHD MOUSE MODEL OF HUNTINGTON'S DISEASE.
Yu Tahara, UCLA

T24. MODELING STRENGTHENS MOLECULAR LINK BETWEEN CIRCADIAN POLYMORPHISMS AND MAJOR MOOD DISORDERS
Krista Ingram, Colgate University

T25. THE CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR AS A POTENTIAL LINK BETWEEN THE MYOGENIC RESPONSE AND THE CIRCADIAN CLOCK
Chloe Ng, University of Toronto

T26. ENDOGENOUS CIRCADIAN RHYTHM IN NEGATIVE AFFECT
Alec Berman, Oregon Institute of Occupational Health Science / OHSU

T27. DISTINCT RETINAL OUTPUT PATHWAYS MEDIATE LIGHT-INDUCED MOOD AND COGNITIVE DEFICITS
*Diego Fernandez, National Institute of Mental Health

T28. THE SSRI CITALOPRAM INCREASES THE SENSITIVITY OF THE HUMAN CIRCADIAN SYSTEM TO LIGHT.
Elise McGlashan, Monash University

T29. PROLONGED PHOTOPERIOD AND SPECTRAL INTENSITY – EFFECTS ON CIRCADIAN RHYTHMICITY AND GENE EXPRESSION IN THE RAT BRAIN
Andrea Marti, Bergen Stress and Sleep Group

T30. HISCL1 HISTAMINE RECEPTOR SUPPORTS COMMUNICATION BETWEEN PHOTORECEPTORS TO ENTRAIN REST-ACTIVITY RHYTHMS IN DROSOPHILA
Francois Rouyer, Université Paris Sud - CNRS

T31. A TIMELESS MUTATION ALTERS PHASE RESPONSIVENESS AND CAUSES FAMILIAL ADVANCED SLEEP PHASE
Louis Ptacek, UCSF

T32. DOPAMINE 2 RECEPTOR SIGNALING CONTROLS THE DAILY RHYTHM IN PHAGOCYTIC ACTIVITY BY THE RETINAL PIGMENTED EPITHELIUM
Varunika Goyal, Morehouse School of Medicine

T33. BETA-A3/A1-CRYSTALLIN AFFECTS CIRCADIAN RHYTHM OF THE RETINAL PIGMENTED EPITHELIUM THROUGH REGULATION OF GSK3BETA EXPRESSION
Nadezda Stepicheva, University of Pittsburgh, School of Medicine

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T34. CONE PHOTORECEPTORS CONTRIBUTE TO THE LIGHT RESPONSE OF THE MAMMALIAN BIOLOGICAL CLOCK
Robin Schoonderwoerd, Leiden University Medical Center

T35. TIME-MEMORY ASSAY REVISITED, OPTOGENETICALLY
Emi Nagoshi, University of Geneva

T36. SINGLE CELL RNA SEQUENCING DEFINES CELLULAR BINARY SWITCHING MECHANISM DRIVING CIRCADIAN REGULATION OF MAMMALIAN PHOTOPERIODISM IN MELATONIN-TARGET CALENDAR CELLS.
Yasutaka Mizoro, University of Manchester

T37. THE ROLE OF CRYPTOCHROME IN THE REGULATION OF DAILY STRUCTURAL CHANGES OF SYNAPSES IN THE DROSOPHILA VISUAL SYSTEM.
Milena Damulewicz, Jagiellonian University

T38. INVESTIGATING THE ROLE OF THE SALT-INDUCIBLE KINASES IN THE REGULATION OF THE MOLECULAR CIRCADIAN CLOCK
*Lewis Taylor, University of Oxford

T39. EVOLUTION OF DNA REPAIR SYSTEMS IN AN EXTREME ENVIRONMENT.
Nicholas Foulkes, Karlsruhe Institute of Technology

T40. HYPOCRETIN UNDERLIES THE EVOLUTION OF SLEEP LOSS IN THE MEXICAN CAVEFISH
*James Jaggard, Florida Atlantic University

T41. PHOTIC INFLUENCES ON NEURAL ACTIVITY IN SCN TARGET REGIONS.
Lauren Walmsley, The University of Manchester

T42. INDUCIBLE SKELETAL MUSCLE-SPECIFIC KNOCKOUT OF BMAL1 LEADS TO ALTERED EXPRESSION OF CRITICAL KIDNEY FUNCTION GENES
Collin Douglas, University of Florida

T43. INHIBITION OF CASEIN KINASE 1 ENHANCES HIPPOCAMPAL-DEPENDENT LEARNING AND INCREASES EXPRESSION OF PLASTICITY PROTEINS IN THE HIPPOCAMPUS AND AMYGDALA
+Heather Mahoney, University of South Florida

T44. CLOCKΔ19 MUTATION LEADS TO INCREASED OXIDATIVE DAMAGE TO PARVALBUMIN INTERNEURONS AND SLOWS PERINEURONAL NET DEVELOPMENT
Jennifer Burns, University of Pittsburgh

T45. TIME FOR A DRINK? NOVEL OSCILLATOR PROPERTIES IN THE THIRST CENTRES OF THE BRAIN
**Rebecca Northeast, University of Manchester

T46. HUMAN CIRCADIAN SYSTEM INCREASES THE HUNGER HORMONE GHRELIN IN THE BIOLOGICAL EVENING INDEPENDENT OF THE BEHAVIORAL CYCLE
Jingyi Qian, Brigham & Women's Hospital, Harvard Medical School

T47. THE SEX DIFFERENCE IN FOOD ANTICIPATORY ACTIVITY IN MICE IS ELIMINATED BY EXPOSURE TO RESTRICTED FEEDING AS JUVENILES.
Ashutosh Rastogi, Kent State University

T48. EXPLORING STRAIN BACKGROUND AS A MODULATOR OF FOOD ANTICIPATORY ACTIVITY IN MICE
David Cun, Cal Poly Pomona

T49. DOES RESTRICTED DAYTIME FEEDING IMPAIR HIPPOCAMPAL MEMORY PROCESSES IN NOCTURNAL MICE?
Sarah Power, Simon Fraser University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T50. THE REGULATION OF SLEEP INTENSITY BY NUTRIENT AVAILABILITY IN DROSOPHILA MELANOGASTER
ELizabeth Brown, Florida Atlantic University

T51. MECHANISMS OF MULTIPLE MEAL ANTICIPATION IN RATS
Christian Petersen, Simon Fraser University

T52. TIME-RESTRICTED FEEDING NORMALIZES OBESITY-INDUCED ALTERATIONS IN HEPATIC CLOCK GENES AND STEATOSIS IN MICE
Jennifer Valcin, University of Alabama at Birmingham

T53. USING SIMULATED SHIFT WORK AND METABOLOMICS TO SEPARATE CIRCADIAN- AND BEHAVIOR-DRIVEN METABOLITE RHYTHMS IN HUMANS
Debra Skene, University of Surrey

T54. LATER SCHOOL START TIMES ALLEVIATE SLEEP DEPRIVATION AND SOCIAL JETLAG IN ADOLESCENT HIGH SCHOOL STUDENTS.
Anna Biller, Institute for Medical Psychology, Munich

T55. PHYSICAL ACTIVITY CAN MODIFY CHRONOTYPE INDEPENDENT OF PER3 VNTR GENOTYPE
Laura Roden, University of Cape Town

T56. CIRCADIAN RHYTHMICITY OF VISUAL AND NON-VISUAL SENSITIVITY TO LIGHT IN HUMANS
Ines Daguet, Inserm - Unviersité Claude Bernard Lyon 1

T57. CHRONOTYPE SHAPES THE DAY – DAILY ROUTINES IN COLLEGE STUDENTS
Elizabeth Klerman, Brigham and Women's Hospital, Inc

T58. STUDY OF THE EFFECTS OF A 5 HOUR AND 8 HOUR CIRCADIAN PHASE ADVANCE AS A MODEL OF JET LAG DISORDER
Michaela Fisher, Vanda Pharmaceuticals

T59. SHIFT WORK DISRUPTS CIRCADIAN REGULATION OF THE TRANSCRIPTOME IN HOSPITAL NURSES
David Resuehr, UASOM

T60. A NEURAL NETWORK PREDICTS HUMAN CIRCADIAN PHASE FROM NON-INVASIVE, SHORT-TIMEFRAME ACTIGRAPHY AND DEMOGRAPHIC DATA: A STEP TOWARDS AUTOMATED CONTROL OF CIRCADIAN PHASE
Lindsey Brown, Harvard John A. Paulson School of Engineering and Applied Sciences

T61. SLEEP AND BIOLOGICAL RHYTHMS DURING PROLONGED BEDREST: A MODEL FOR THE EFFECTS OF MICROGRAVITY AND AGING
Maria-Angeles Bonmati-Carrion, University of Surrey

T62. MATHEMATICAL MODELING FOR PHARMACOLOGICAL MANIPULATION OF PRIMATE'S CIRCADIAN RHYTHM AND PRECISION MEDICINE FOR ADVANCED SLEEP PHASE DISORDER
Dae Wook Kim, KAIST

T63. MATHEMATICAL PREDICTIONS OF ADOLESCENT SLEEP BEHAVIOR WITHIN A TIME ZONE: IMPLICATIONS FOR SCHOOL START TIME POLICY?
Anne Skeldon, University of Surrey

T64. CIRCADIAN PHASE ESTIMATION USING AMBULATORY LIGHT AND SKIN TEMPERATURE MONITORING: A NEURAL NETWORK APPROACH
Julia Stone, Monash University

T65. RHYTHMIC FOOD INTAKE DRIVES RHYTHMIC GENE EXPRESSION MORE POTENTLY THAN THE HEPATIC CIRCADIAN CLOCK IN MICE
Ben Greenwell, Texas A&M University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T66. A CHRONOTYPE LOCUS MAY MARK A NEARBY CLOCK GENE: IMPLICATIONS FOR CHILDHOOD LIPOFUSCINOSIS DISEASES
Lauren Francey, Cincinnati Children's Hospital

T67. INVESTIGATING THE CONTRIBUTION OF SLEEP DISRUPTION IN A SPACEFLIGHT ANALOG
Katrina Campbell, Northwestern University

T68. UNDERSTANDING THE EFFECTS OF EPIGENETIC MODULATION WITHIN CIRCADIAN RHYTHMS
Dragos Mosneagu, University of Oxford

T69. CIRCADIAN INDUCTION OF METABOLIC AND STRESS-RESPONSIVE GENE OSCILLATION REQUIRES NAD+ IN YOUNG AND OLD MICE
Daniel Levine, Northwestern University

T70. VOLUNTARY TRAINING REVEALS TIME-OF-DAY DIFFERENCES IN EXERCISE PERFORMANCE AND INTRAMUSCULAR GLYCOGEN ACCUMULATION.
Drew Duglan, Scripps Research Institute

T71. THE METABOLIC COST OF DAILY ENTRAINMENT UNDER HIGH FAT DIET IN MICE
Roee Gutman, Tel-Hai College

T72. BEHAVIORAL CHANGE AND METABOLIC EFFECTS IN A MOUSE MODEL OF CHRONIC CIRCADIAN DISRUPTION
Jesse Britz, SIU Medicine

T73. REDOX MODULATION OF THE CIRCADIAN CLOCK AT THE BEHAVIORAL AND MOLECULAR LEVEL
Juan Chiesa, Universidad Nacional de Quilmes

T74. AN ACID-RESPONSIVE CIRCADIAN-OSCILLATING LNCRNA
**Rebekah Brooks, Vanda Pharmaceuticals Excellence Awardee, University of Pennsylvania

T75. ACUTE EFFECTS OF BLUE LIGHT ON EATING BEHAVIOR AND GLUCOSE METABOLISM OF MICE
#Anayanci Masis-Vargas, Strasbourg University

T76. A MECHANISTIC MODEL FOR THE YEAST RESPIRATORY OSCILLATION
Helen Causton, Columbia University Medical School

T77. REGULATION OF THE HYPOXIC RESPONSE BY MAMMALIAN CRYPTOCHROMES
*Megan Vaughan, The Scripps Research Institute

T78. SPACEFLIGHT-ASSOCIATED CHANGES IN MOUSE GUT MICROBIOME: AN INDICATOR OF DISRUPTED SLEEP AND CIRCADIAN RHYTHMS?
Peng Jiang, Northwestern University

T79. SUBMISSION WITHDRAWN

T80. THE ROLE OF VOLTAGE-GATED POTASSIUM CHANNELS IN DROSOPHILA CIRCADIAN RHYTHMS
James Hodge, University of Bristol

T81. CIRCADIAN TRANSCRIPTION FACTOR NPAS2 AND NAD+-DEPENDENT DEACETYLASE SIRT1 INTERACT IN THE MOUSE NUCLEUS ACCUMBENS (NAC) TO REGULATE COCAINE REWARD-RELATED BEHAVIOR
*Darius Becker-Krail, University of Pittsburgh

T82. FUNCTIONAL ANALYSIS OF DNA CIS-ELEMENTS RESPONSIBLE FOR TRANSCRIPTIONAL RHYTHMS OF BMAL1
Yasuko Abe, The University of Tokyo

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T83. TIME DEPENDENT DIFFERENTIAL SPLICING IN MAMMALIAN TISSUES
Krithika Ramasamy Subramanian, University of Cincinnati

T84. ROLES OF AN ANTISENSE TRANSCRIPT OF PERIOD2 IN THE MAMMALIAN CIRCADIAN CLOCK SYSTEM
Shihoko Kojima, Virginia Tech

T85. DNA METHYLATION MODULATES PERIOD AFTEREFFECTS OF LIGHT-INDUCED CLOCK RESETTING WITHOUT AFFECTING PHASE SHIFTS
Suil Kim, Vanderbilt University

T86. ACHILLES REGULATES CIRCADIAN MRNA RHYTHMS IN THE FLY BRAIN
Michael Hughes, UMSL

T87. HISTONE ACETYLTRANSFERASE COFACTOR NIPPED-A REGULATES THE DROSOPHILA CLOCK
Bei Bu, Huazhong University of Science & Technology

T88. CALMODULIN IS INVOLVED IN CRYPTOCHROME-MEDIATED SIGNALING TO THE CIRCADIAN CLOCK
Rodolfo Costa, University of Padova - Italy

T89. CIRCADIAN RIBOSOMAL PROFILING AND ANALYSIS OF UPSTREAM OPEN READING FRAMES (UORFS)
Arthur Millius, RIKEN Quantitative Biology Center

T90. DNA REPLICATION IS REQUIRED FOR CIRCADIAN CLOCK FUNCTION BY REGULATING RHYTHMIC NUCLEOSOME COMPOSITION
Xiao Liu, UT Southwestern Medical Center

T91. A CRYPTOCHROME MUTATION CAUSING FASP AND FAD REGULATION OF CRY2 PROTEIN STABILITY AND CIRCADIAN CLOCK IN MICE
Louis Ptacek, UCSF

T92. STRAIN DIFFERENCES OF MOLECULAR CIRCADIAN RHYTHMS IN PRIMARY FIBROBLASTS
Sam-Moon Kim, University of Pittsburgh

T93. ANALYSIS OF DBP MUTANT DEFICIENT FOR TRANSCRIPTIONAL ACTIVITY THROUGH D-BOX
Motomiya Masaki, The University of Tokyo

T94. NEW PATHWAY MEDIATED BY ERK AND TRANSCRIPTION FACTOR AP1 FOUND DOWNSTREAM OF ADENOSINE RECEPTOR REGULATING THE CIRCADIAN CLOCKWORK
Norbert Varga, University of Oxford

T95. MIR-210 REGULATES EVENING PEAK ACTIVITY AND FAS2 EXPRESSION IN DROSOPHILA MELANOGASTER
+Wesley Leigh, University of Nevada, Reno

T96. HOW TO TIME EVENTS WITH MULTI-SITE PHOSPHORYLATION
Yining Lu, University of Michigan

T97. JMJC PROTEIN JMJD5 REGULATES ACTIVITY-COUPLED DEGRADATION OF CRY1 TO INFLUENCE THE CIRCADIAN CLOCK
Anand Saran, University of Kansas Medical Center

T98. DA-JC1 IMPROVES EXPRESSION OF PROTEINS ASSOCIATED WITH LEARNING AND MEMORY BY ANTAGONIZING Aβ31-35-INDUCED CIRCADIAN RHYTHM DISORDER
Na Ning, Shanxi Medical University

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T99. TWO INTERACTIVE CASEIN KINASE 1 DELTA ISOFORMS REGULATED BY M6A METHYLATION.
Jean-Michel Fustin, Kyoto University

T100. STABILITY AND FOLDING CHARACTERIZATION OF HUMAN PERIOD-2 C-TERMINAL DOMAIN
Chuan Xiao, University of Texas at El Paso

T101. TOR PATHWAY COMPONENTS IN THE CIRCADIAN SYSTEM OF NEUROSPORA CRASSA
Rosa Eskandari, York University

T102. MUSCLE CONTRACTION AS NOVEL NON-PHOTIC TIME CUE FOR THE CIRCADIAN CLOCKS IN MUSCLE
*Denise Kemler, University of Florida

T103. DESIGN PRINCIPLES OF TEMPERATURE-COMPENSATED PHOSPHORYLATION IN THE MAMMALIAN CIRCADIAN CLOCK
Yuta Shinohara, RIKEN

T104. MELATONIN RESPONSE TO SPIRIT POSSESSION: EXPLORING AN INTRIGUING PUTATIVE ROLE OF THE PINEAL GLAND
Marco Aurélio Bastos Jr., Universidade Federal de Mato Grosso do Sul - Brazil

T105. GENOME-WIDE ASSOCIATION ANALYSES OF CHRONOTYPE IN 697,828 INDIVIDUALS PROVIDES NEW INSIGHTS INTO CIRCADIAN RHYTHMS IN HUMANS AND LINKS TO DISEASE
*Jacqueline Lane, Massachusetts General Hospital

T106. FUNCTIONAL PEPTIDOMICS: STIMULUS- AND TIME-OF-DAY-SPECIFIC PEPTIDE RELEASE IN THE MAMMALIAN CIRCADIAN CLOCK
Jennifer Mitchell, University of Illinois at Urbana-Champaign

T107. TRANSCRIPTOME ANALYSIS OF SPRING-RESPONSIVE GENES IN MEDAKA (ORYZIAS LATIPES)
Tomoya Nakayama, Nagoya University

T108. NON-HARMONIC OSCILLATIONS SUGGEST POINTS OF CROSS-REGULATION BETWEEN THE CIRCADIAN AND OTHER CELLULAR SYSTEMS.
Jennifer Hurley, Renssealer Polytechnic Institute

T109. MOLECULAR MECHANISMS OF STRUCTURAL PLASTICITY IN DROSOPHILA PACEMAKER NEURONS
Seana Lymer, New York University

T110. MATHEMATICAL MODELING OF NEURON-ASTROCYTE INTERACTIONS IN THE SUPRACHIASMATIC NUCLEUS
Natthapong Sueviriyapan, University of Massachusetts Amherst

T111. NEUROPEPTIDERGIC ENCODING OF CIRCADIAN RHYTHMS AND LIGHT
*Jeff Jones, Washington University in St. Louis

T112. GENETIC DISSECTION OF CIRCADIAN NETWORKS IN THE SUPRACHIASMATIC NUCLEUS
Mariko Izumo, UT Southwestern Medical Center

T113. 3-D RECONSTRUCTION OF NEURONS DRIVING CIRCADIAN RHYTHMS
Mark Czeisler, Harvard College

T114. CLOCK FUNCTION IS NECESSARY AT MULTIPLE NODES OF A HYPOTHALAMIC NEUROENDOCRINE CIRCUIT FOR AN APPROPRIATELY TIMED PREOVULATORY LH SURGE.
*Ajay Kumar, University of Massachusetts Amherst

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

T115. 3D SINGLE-CELL ATLAS OF SUPRACHIASMATIC NUCLEUS
**Danyi Ma, Vanda Pharmaceuticals Excellence Awardee, Institute of Neuroscience

T116. QUANTITATIVE NETWORK ANALYSIS OF CIRCADIAN CLOCKS IN FIBROBLASTS AND SCN ORGANOTYPIC SLICES
*James Bagnall, University of Manchester

T117. PHOTOPERIODIC ENCODING WITHIN THE SCN
Michael Tackenberg, Vanderbilt University

T118. THE ROLE OF ADENOSINE IN CIRCADIAN RHYTHMS
Farid Ebrahimjee, University of Oxford

T119. VASOPRESSIN SIGNALING MODULATES MASTER CLOCK FUNCTION AND BEHAVIORAL RHYTHMS IN MICE
*Kayla Rohr, Marquette University

T120. EXTENDING THE PHOTOPERIOD ALTERS TIME IN SLEEP AND SLOW-WAVE ACTIVITY IN THE RAT. THE IMPACT OF BLUE-ENRICHED LIGHT
Louise Bjerrum, University of Bergen

T121. A NEURAL SWITCH FOR TEMPERATURE-ADAPTIVE SLEEP BEHAVIORS IN DROSOPHILA
Chunghun Lim, UNIST

T122. ADENOSINE REGULATION OF THE MOLECULAR CLOCKWORK: NEW MECHANISTIC INSIGHTS FOR SLEEP/WAKE TIMING.
Aarti Jagannath, University of Oxford

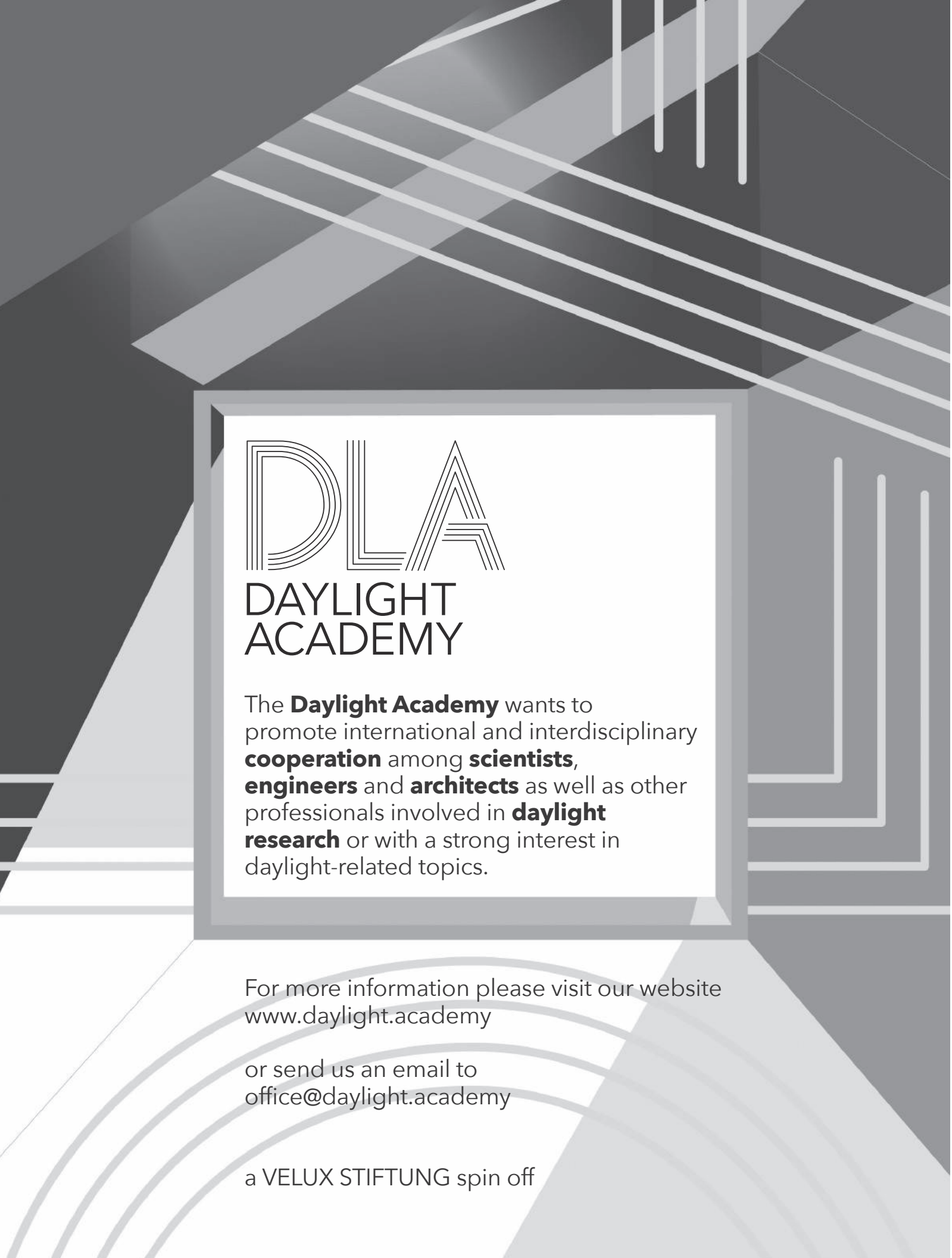
T123. SLEEPING SICKNESS IS A CIRCADIAN DISORDER
Filipa Rijo-Ferreira, University of Texas Southwestern/Howard Hughes Medical Institute

T124. CIRCADIAN CLOCK CONTROL AND VITAMIN A REGULATION OF PHOTOPERIODICALLY-INDUCED REPRODUCTIVE DIAPAUSE IN THE MONARCH BUTTERFLY
**Samantha Iiams, Patricia DeCoursey Excellence Awardee, Texas A&M University

T125. AFTERNOON SCHOOL STARTS TIMES ABOLISH SOCIAL JETLAG AND INCREASES SLEEP DURATION IN ADOLESCENTS
Rubia Aparecida Carvalho Mendes, University of São Paulo

*= Merit Award Winner **= Excellence Award Winner + = TYDE Fellowship Winner # = Global Diversity Fellowship Winner

Notes



DLA

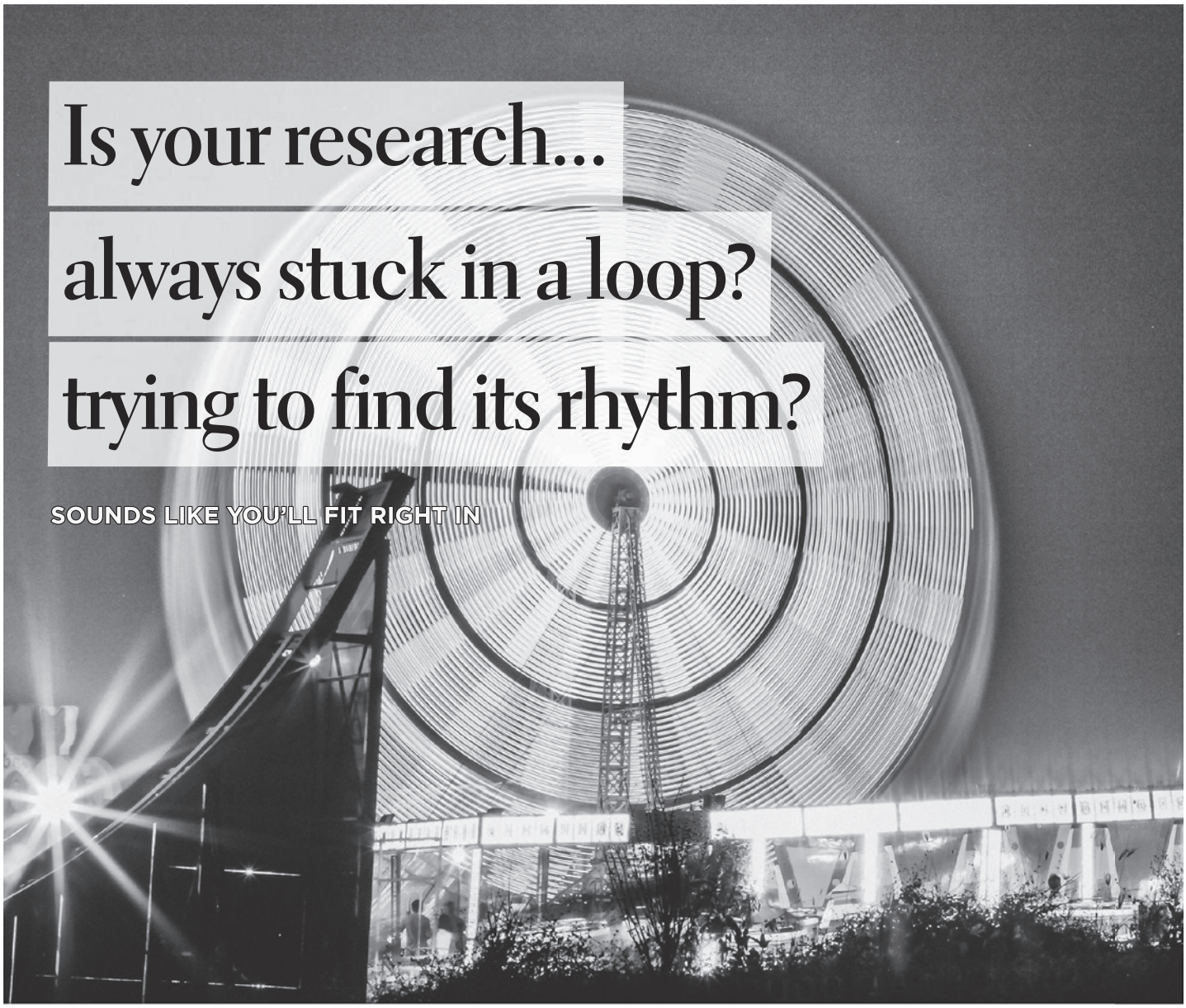
DAYLIGHT ACADEMY

The **Daylight Academy** wants to promote international and interdisciplinary **cooperation** among **scientists**, **engineers** and **architects** as well as other professionals involved in **daylight research** or with a strong interest in daylight-related topics.

For more information please visit our website
www.daylight.academy

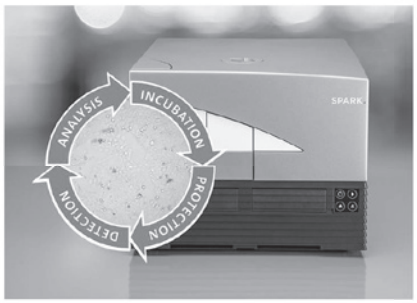
or send us an email to
office@daylight.academy

a VELUX STIFTUNG spin off



WELCOME SRBR 2018 ATTENDEES

Tecan's newest multimode plate reader, Spark®, is built to effortlessly handle your routine or complex assays. Designed to be fully modular and upgradeable it can seamlessly adapt to your existing workflow and create entirely new possibilities. Built with kinetic assays in mind it simplifies your life as a cell biologist.



Achieving this level of detail comes from optimizing and consistently executing your applications. Talk to Tecan today to learn how our products can support your research.

www.tecan.com/spark

Call: The Americas: +1 919 361 5200 **Europe:** +49 79 5194 170 **Asia:** +81 44 556 7311 **Australia:** +61 3 9647 4100
E-mail: information@tecan.com

For research use only.

TECAN.

Vanda Pharmaceuticals is proud to support SRBR.

Vanda is a global biopharmaceutical company focused on the development and commercialization of innovative therapies to address high unmet medical needs and improve the lives of patients.

Visit us at www.vandapharma.com.

SOCIETY FOR RESEARCH ON BIOLOGICAL RHYTHMS
MAY 12-16, 2018
Amelia Island, Florida • Omni Amelia Island Plantation Resort

SRBR Itinerary Planner

View more information about the 2018 Meeting schedule, including speakers and abstracts.

It is not necessary to create an account to browse the planner, however, you cannot create a personalized schedule without first logging in. You will use the same username and password you used to register for the conference.

Click Here to View the 2018 SRBR Schedule of Events

Using the Itinerary Planner:

Speaker Information: While viewing the schedule, you can click on each session to expand and view more information, including the speakers and *abstracts.*

Search and Filter*: There are several convenient ways to access desired information:*

- ***Filters****: Located on the right-side menu to assist in identifying sessions by type and category.*
- ***Search Schedule Box****: Search to find sessions by session name, submission title, speaker, co-author, or key word.*
- ***Browse Speakers:*** Located on the left side of the screen in the gray area, click the browse by speaker link.

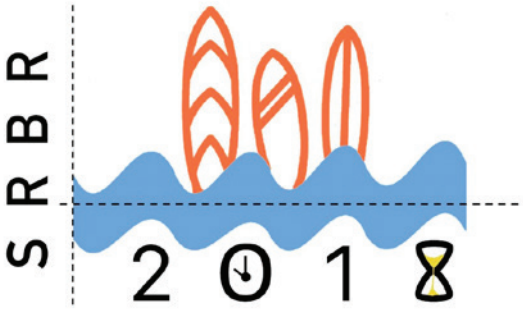
Schedule Your Sessions: Sessions can be added to ‹My Schedule› by choosing the push pin icon located next to the session name on every session. The push pin will turn black indicating that the session has been added. To de-select a session, click the pin again, and it will unpin.

My Schedule*: After you have made selections, choose "My Schedule" to view your schedule. You also have the ability to add sessions to your personal calendar. In addition, you can link your personal schedule directly to the upcoming mobile application. Simply log in to the app with the same credentials and your schedule will automatically populate from the online itinerary planner.*

Logo Contest Winners

Winning Design
Laura-Ana Cuciureanu, B.Sc.
Graduate Student
York University

Runner Up
Laura Kervezee, Ph.D.
Post-Doctoral Fellow
McGill University



Runner Up
Miriam Ben-Hamo, Ph.D.
Postdoctoral-Fellow
University of Washington