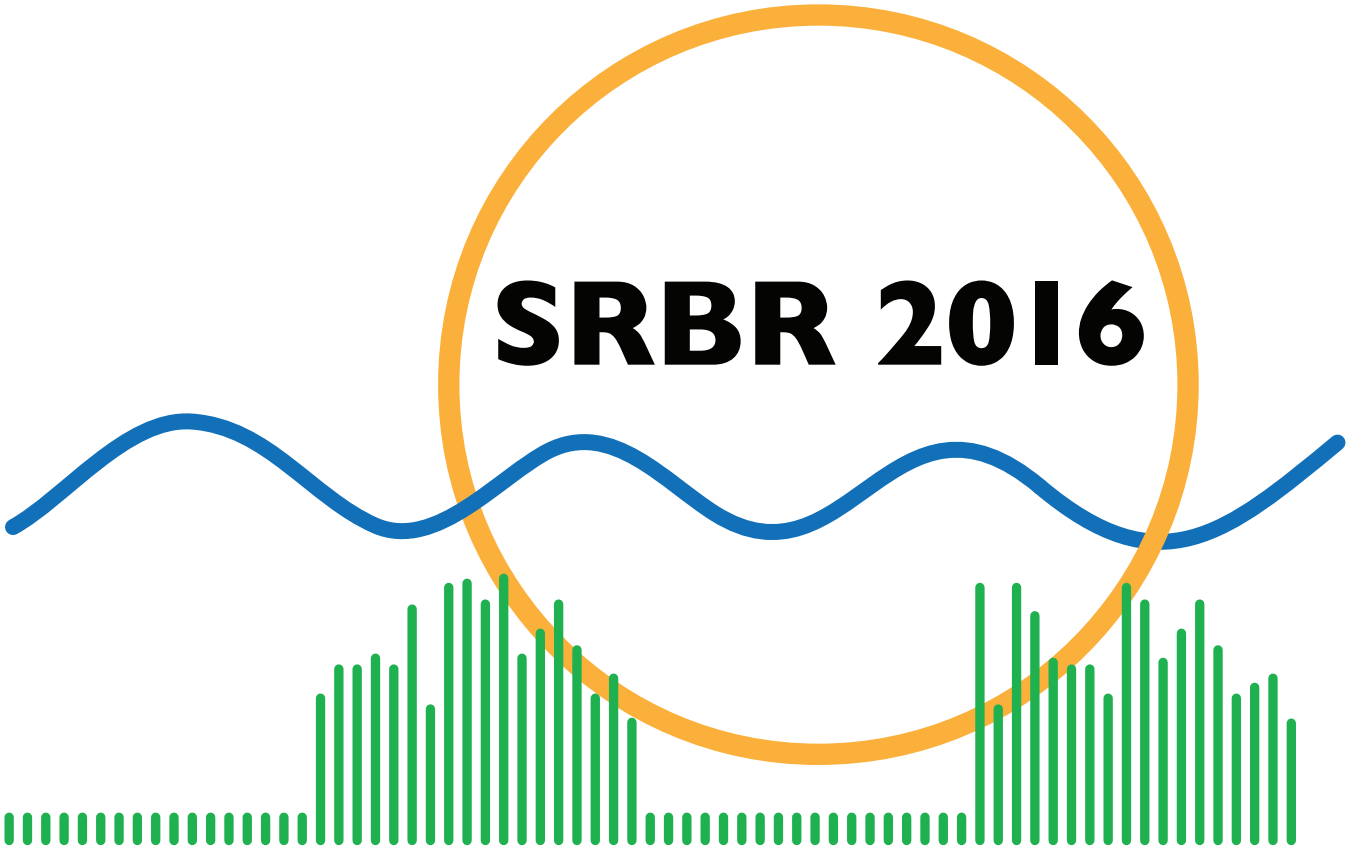
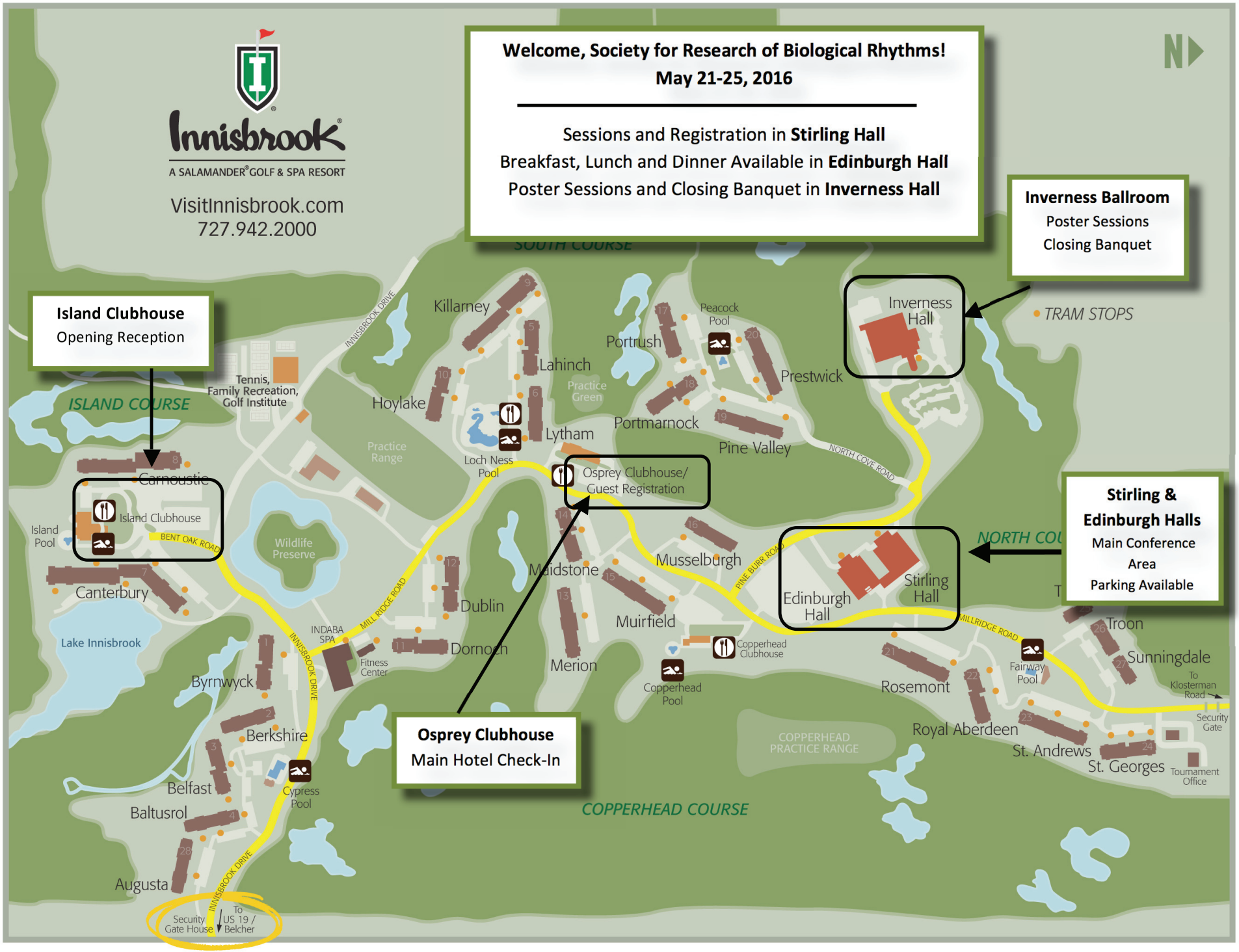


SOCIETY FOR RESEARCH ON BIOLOGICAL RHYTHMS

May 21–25, Palm Harbor, FL



Conference center floor plans can be found in the inside of the back cover.

SOCIETY FOR RESEARCH ON BIOLOGICAL RHYTHMS

May 21–25, Palm Harbor, FL

15th Biennial Meeting

Conference Program

SRBR Thanks the Sponsors of this Meeting!

National Institute of Neurological Disorders and Stroke

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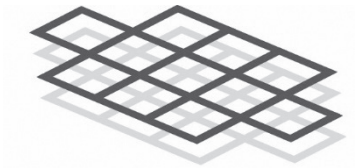

ACTIMETRICS

Private Donation from the Estate of Ronald J. Konopka

SRBR would like to acknowledge the generosity of the following companies whose unrestricted educational grants have contributed to the overall quality of this meeting:

Contents

President's Welcome to SRBR 2016

It is my pleasure to welcome you back to warm, sunny Florida for the 2016 Biennial SRBR Conference! The Society for Research on Biological Rhythms 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 2016 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 Innisbrook Resort, as well as nearby beaches and beautiful Tampa Bay.

All the scientific discourse, personal interactions and leisure activities that you 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 2016 Program Chair, Nicolas Cermakian, and our Professional Development Committee Chair, Karen Gamble, our Junior Faculty Workshop Chair, Ilia Karatsoreos, and the Professional Development Committees for kicking off the meeting with terrific educational and career development events, Kelli Tometich and the Parthenon Management Group team for their meticulous planning to keep this meeting running smoothly, and our Fundraising Chair, Erik Herzog, who raised a record level of support from many generous government, corporate and individual sponsors. In addition to planning SRBR 2016, your SRBR Board of Directors made quiet progress on multiple fronts including hiring a new management firm to handle our Society and meeting activities, initiating a Governmental Affairs Committee to advocate for circadian biology and sleep, appointing committees to choose and confer the first Directors' Awards and Junior Faculty Research Awards, and enhancing diversity at biennial meetings by establishing the SRBR Diversity Travel Awards and SRBR International Travel Fellowships. 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 2016.

Best wishes for a great meeting!

Paul E. Hardin
SRBR President, 2014-2016

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Exhibitors

Exhibitor tables will be set up in the Stirling Hall Foyer throughout the entire meeting. Please take some time to visit our exhibitors, as they have provided generous support for the meeting.

CamNtech, Inc.
630 Boerne Stage Airfield
Boerne, Texas 78006, USA
Contact: Rob Davidson
830-755-8036
sales@camntech.com

Condor Instruments LTDA
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São Paulo, 05468-160 Brazil
Contact: Rodrigo Trevisan Okamoto
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651-481-7400

Research Diets, Inc.
20 Jules Lane
New Brunswick, NJ 08901 USA
Contact: Mark Antonio
Mark@researchdiets.com
732-247-2390

General Information

Headquarters are at the Stirling Hall in the Ballroom Foyer.

SRBR Information Desk will be in the Osprey Club House main hotel lobby on Friday, May 20 and in the Stirling Hall Foyer all other days. The Message Center will be in the Stirling Hall Foyer.

The desk hours are as follows:

Friday, May 20	3:00 pm – 7:00 pm	
Saturday, May 21	8:00 am – 12:00 pm	2:00 pm – 8:00 pm
Sunday, May 22	7:00 am – 11:30 am	3:15 pm – 6:30 pm
Monday, May 23	7:00 am – 11:30 am	3:15 pm – 6:30 pm
Tuesday, May 24	7:00 am – 11:30 am	3:15 pm – 6:30 pm
Wednesday, May 25	7:00 am – 11:30 am	

Messages can be left on the SRBR message board next to the registration desk. Meeting participants are asked to check the message board routinely for mail, notes, and messages.

Hotel check-in will be at the Osprey Club House.

Shuttle service will be available on Sunday-Tuesday from 12:30 pm to 4:30 pm and again from 6:30 pm to 8:00 pm. On Wednesday, the shuttle will be available from 12:30 pm – 4:30 pm. The shuttles will pick up and drop off from the parking lot at Edinburgh Hall and run on a continuous loop to Tarpon Springs during operation hours. Tarpon Springs has shopping, restaurants, and a grocery store.

Meals: Cash concessions will be available for breakfast, lunch and dinner in the Edinburgh Ballroom East. Weather permitting there will be seating each day on Stirling Lawn and Garden Lawn starting Sunday, May 22 thru Wednesday, May 25. Additionally, a variety of restaurants are located on the Innisbrook Resort premises and available to SRBR attendees. See below for a list of outlets scheduled to be open during meal periods. Each outlet will offer special menus and pricing for SRBR attendees.

Breakfast: Market Salamander Grille, Turnberry Pub, Packard's Steakhouse, In Suite DIning

Lunch: Market Salamander Grille, Osprey Sports Bar, The Grille at Loch Ness, Turnberry Pub, Packard's Steakhouse, In Suite Dining

Dinner: Market Salamander Grille, Osprey Sports Bar, Packard's Steakhouse, In Suite Dining

The SRBR Mobile App is now available in the App Store for iPhones and in the Google Play Store for Androids. Search SRBR and download today. View the latest schedule, attendee list and abstracts!

Follow SRBR on social media! Find us on Facebook and follow us on Twitter @SRBR2016.

Meeting Components

Professional Development

Trainee Professional Development Day

Saturday, May 21, 9:00 am – 5:00 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 21, 1:00 pm – 4:40 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 22 – Wednesday, May 25, 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 a number of faculty researchers will be available to talk with trainees. Any trainee interested in meeting these investigators can go to the Salon IJK and take part in this informal gathering.

Actigraphy Workshop

Wednesday, May 25, 1:15 pm - 2:15 pm

Condor Instruments will be offering a workshop on the use of actimeters and analysis of actimetry data.

Scientific Sessions

Symposia

Sunday, May 22 – Wednesday, May 25, 8:15 am - 10:30 am

Sunday, May 22 and Tuesday, May 24, 4:15 pm - 6:30 pm

Sessions of talks from guest speakers, designed by the Program Committee.

Slide Sessions

Sunday, May 22 – Wednesday, May 25, 11:00 am - 12:30 pm

Sessions of short talks selected by the Program Committee among the abstracts submitted for the meeting.

Workshops

Monday, May 23 and Tuesday May 24, 3:15 pm – 4:15 pm,
Wednesday, May 25, 3:30 pm – 4:30 pm

The aim of the workshops is to provide a forum to discuss emerging topics, big picture issues and controversies. The chair will introduce the topic and the questions to address and panelists will do a very brief presentation addressing the questions. This will be followed by an open discussion, with participation of the panelists and the audience.

Presidential Special Symposium

Monday, May 23, 4:30 pm – 6:30 pm

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

Pittendrigh/Aschoff Lecture

Wednesday, May 25, 4:30 pm – 6:00 pm

The Pittendrigh/Aschoff Lecture is a keynote lecture presented by a prominent researcher in the field of chronobiology. This year's lecturer is Dr. Susan Golden. In addition to presenting the latest research from her team, she will give a summary of her history in the field, go over some of the major highlights from the meeting from her own perspective, and provide some outlook on future directions of the field of chronobiology.

Datablitz

Sunday, May 22 – Tuesday, May 24, 8:00 pm – 8:30 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 in the poster session taking place immediately after.

Poster Sessions

Sunday, May 22 – Tuesday, May 24

Posters will be available for viewing in the Inverness Ballroom and Foyer starting at 10:00 am each day until 10:30 pm. All posters will remain up from May 22 – May 24. Poster setup will be from 3:00 pm to 7:00 pm on Saturday, May 21 and from 10:00 am to 4:00 pm on Sunday, May 22. Poster takedown will be on Tuesday, May 24, before 11:00 pm. Each poster will be scheduled to be presented on a certain day:

Sunday, May 22, 8:30 pm – 10:30 pm	Poster numbers S1-S113
Monday, May 23, 8:30 pm – 10:30 pm	Poster numbers M1-M112
Tuesday, May 24, 8:30 pm – 10:30 pm	Poster numbers T1-T113

Lunchtime Table Discussions

Sunday, May 22 – Wednesday, May 25, starting at 12:45 pm

Lunchtime Table Discussions will be informal discussions of selected chronobiology topics nominated from the membership. These tables are meant to bring together researchers with common interests for informal introductions and discussions. To prepare for a lunchtime table, think about questions that you would like to ask or resources you would like to share with your colleagues. Pick up your lunch in the Edinburgh Ballroom East and go to Edinburgh Ballroom West where tables have been reserved for lunchtime chat participants. Seats are limited at each table.

Special Meetings

JBR Editors Meeting, SAGE Publishers

Monday, May 23, 2:00 pm – 3:00 pm

SRBR Board of Directors Meeting

Tuesday, May 24, 12:45 pm – 2:45 pm

SRBR Governmental Affairs Meeting

Tuesday, May 24, 6:45 pm – 7:45 pm

General Meeting of SRBR Members

Wednesday, May 25, 2:30 pm – 3:30 pm

This is the biennial meeting gathering the members of the Society. **All SRBR members are welcome to attend.** Members of the outgoing Board of Directors and representatives of the meeting organization team will do a brief report, and the new Board of Directors will be presented. Members will also be invited to comment and give ideas on the future of the Society.

Social Events and Ceremonies

Welcome Reception

Saturday, May 21, 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 will be served.

Cocktail Reception

Wednesday, May 25, 6:15 pm – 7:30 pm

Closing Banquet and Awards Ceremony

Wednesday, May 25, 7:30 pm

Regular meeting registration includes participation in the banquet. For accompanying guests, banquet tickets need to be purchased in advance at the SRBR registration desk.

Meeting at a Glance

All sessions of talks will take place in the Stirling Hall. Meals will be available in the Edinburgh Hall. Poster sessions will be in the Inverness Hall.

Saturday, May 21

9:00 am – 5:00 pm **Trainee Professional Development Day** | *Stirling Hall*

1:00 pm – 4:40 pm **Junior Faculty Workshops** | *Stirling Ballroom West*

3:00 pm – 7:00 pm **Poster Session Setup** | *Inverness Ballroom and Foyer*

7:00 pm – 9:00 pm **Opening Reception** | *Island Clubhouse*

Sunday, May 22

8:00 am – 4:00 pm **Poster Session Setup** | *Inverness Ballroom and Foyer*

8:15 am – 10:30 am **Symposium 1: *Konopka Symposium: Frontiers of Molecular Chronobiology*** | *Stirling Ballroom East*

Symposium 2: *Clock Flexibility and Plasticity: Genes, Neurons and Behavior* | *Stirling Ballroom West*

Symposium 3: *Chronopharmacology in Cancer, Shift Work Sleep Disorder and Beyond* | *Stirling Salon OPQ*

10:30 am – 11:00 am **Refreshment Break** | *Stirling Hall Foyer*

Exhibits | *Stirling Hall Foyer*

Meet the Professors | *Stirling Salon IJK*

11:00 am – 12:30 pm **Slide Sessions**

A: Clocks, Feeding and Metabolism | *Stirling Ballroom East*

B: Circadian Rhythms Across the Cell | *Stirling Ballroom West*

C: Light, Brain Function and Mental Health | *Stirling Salon OPQ*

D: Temperature and Cellular Stress | *Stirling Salon LMN*

12:45 pm – 1:45 pm **Lunchtime Table Discussions** | *Edinburgh Ballroom West*

4:15 pm – 6:30 pm **Symposium 4: *SRS-SRBR Symposium: Sleep and Circadian Rhythms*** | *Stirling Ballroom East*

Symposium 5: *Circadian Rhythms in Natural Environments* | *Stirling Ballroom West*

Symposium 6: *Time Perception and Non-Circadian Timers* | *Stirling Salon OPQ*

8:00 pm – 8:30 pm **Datablitz I** | *Stirling Ballroom East*

8:30 pm – 10:30 pm **Poster Session I (S1 – S113)** | *Inverness Ballroom and Foyer*

Monday, May 23

8:15 am – 10:30 am	**Symposium 7:** ***Epigenetics and Transcription Networks in Circadian Clocks*** | *Stirling Ballroom East*
	Symposium 8: ***New Facets of Microbiology in Chronobiology: From Microbiota-Host Interactions to Natural Populations*** | *Stirling Ballroom West*
	Symposium 9: ***Role of the Circadian System in Cardiovascular Health and Disease*** | *Stirling Salon OPQ*
10:30 am – 11:00 am	**Refreshment Break** | *Stirling Hall Foyer*
	Exhibits | *Stirling Hall Foyer*
	Meet the Professors | *Stirling Salon IJK*
11:00 am – 12:30 pm	**Slide Sessions**
	E: Clocks and Immunity | *Stirling Salon LMN*
	F: Post-Transcriptional Regulation in the Clock | *Stirling Ballroom East*
	G: Photoreception and Physiology | *Stirling Salon OPQ*
	H: Neurotransmitters, Channels and Neuronal Networks | *Stirling Ballroom West*
12:45 pm – 1:45 pm	**Lunchtime Table Discussions** | *Edinburgh Ballroom West*
2:00 pm – 3:00 pm	**JBR Editors Meeting, SAGE Publishers** | *Stirling Salon DEF*
3:15 pm – 4:15 pm	**Workshop I** | ***Is it Possible to Translate Chronobiology Findings to Real Life, Health and Society?*** | *Stirling Ballroom*
4:30 pm – 6:30 pm	**Presidential Symposium: Circuits, Genes and Behavior** | *Stirling Ballroom*
8:00 pm – 8:30 pm	**Datablitz II** | *Stirling Ballroom*
8:30 pm – 10:30 pm	**Poster Session II (M1 – M112)** | *Inverness Ballroom and Foyer*

Tuesday, May 24

8:15 am – 10:30 am	**Symposium 10: *Biological Rhythms in Immune Responses and Infectious Diseases*** | *Stirling Ballroom East* **Symposium 11: *Systems Chronobiology*** | *Stirling Ballroom West* **Symposium 12: *Rhythms Over the Lifespan*** | *Stirling Salon OPQ*
10:30 am – 11:00 am	**Refreshment Break** | *Stirling Hall Foyer* **Exhibits** | *Stirling Hall Foyer* **Meet the Professors** | *Stirling Salon IJK*
11:00 am – 12:30 pm	**Slide Sessions** **I: Consequences of Circadian Disturbance** | *Stirling Ballroom East* **J: Evolution, Synthetic Biology, Environment and Circadian Clocks** | *Stirling Salon LMN* **K: Clocks and Neuropeptides** | *Stirling Salon OPQ* **L: Sleep** | *Stirling Ballroom West*
12:45 pm – 1:45 pm	**Lunchtime Table Discussions** | *Edinburgh Ballroom West*
12:45 pm – 2:45 pm	**SRBR Board of Directors Meeting** | *Stirling Salon DEF*
3:15 pm – 4:15 pm	**Workshop II** | ***Big Data Sets: How Useful Are They and How to Mine for Gold?*** | *Stirling Ballroom East*
4:15 pm – 6:30 pm	**Symposium 13: *Neuronal Networks and Central Clock Function*** | *Stirling Ballroom East* **Symposium 14: *Circadian Rhythms in Metabolism, Diabetes and Obesity*** | *Stirling Ballroom West* **Symposium 15: *Non-traditional Models: What Do They Teach Us About Biological Rhythms?*** | *Stirling Salon OPQ*
8:00 pm – 8:30 pm	**Datablitz III** | *Stirling Ballroom East*
8:30 pm – 10:30 pm	**Poster Session III (T1 – T113)** | *Inverness Ballroom and Foyer*

Wednesday, May 25

8:15 am – 10:30 am	**Symposium 16:** ***Post-Transcriptional/Translational Circadian Mechanisms*** | *Stirling Ballroom East*
	Symposium 17: ***Non-visual Effects of Light and Other Zeitgebers*** | *Stirling Ballroom West*
	Symposium 18: ***Circadian Rhythms in the Context of Addiction, Mood and Neurodegenerative Disorders*** | *Stirling Salon OPQ*
10:30 am – 11:00 am	**Refreshment Break** | *Stirling Hall Foyer*
	Exhibits | *Stirling Hall Foyer*
	Meet the Professors | *Stirling Salon IJK*
11:00 am – 12:30 pm	**Slide Sessions**
	M: Micro-organisms, Cancer and Cell Cycle | *Stirling Ballroom West*
	N: Clock Outputs | *Stirling Ballroom East*
	O: Light and Neuronal Networks | *Stirling Salon OPQ*
	P: Human Health, Behavior and Society | *Stirling Salon LMN*
12:45 pm – 1:45 pm	**Lunchtime Table Discussions** | *Edinburgh Ballroom West*
1:15 pm – 2:15 pm	**Actigraphy Workshop** | *Stirling Salon DEF*
2:30 pm – 3:30 pm	**General Meeting of SRBR Members** | *Stirling Ballroom*
3:30 pm – 4:30 pm	**Workshop III** | ***Are Circadian Clocks Therapeutic Targets?*** | *Stirling Ballroom*
4:30 pm – 6:00 pm	**Pittendrigh/Aschoff Lecture** | *Stirling Ballroom*
6:15 pm – 7:30 pm	**Cocktail Reception** | *Inverness Ballroom Foyer*
7:30 pm	**Closing Banquet and Awards Ceremony** | *Inverness Ballroom*

Trainee Professional Development Day

Saturday, May 21

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 and Orientation** | *Stirling Ballroom East*

Karen Gamble, The University of Alabama at Birmingham

Paul Hardin, Texas A&M University

9:20 am – 10:00 am **Keynote Address** | *Stirling Ballroom East*

Joseph Takahashi, University of Texas Southwestern

10:10 am – 11:00 am **Session 1**

Asking the Right Questions & Designing the Right Experiments in a Biological Rhythms Project | *Stirling Salon IJK*

Eric Bittman, University of Massachusetts Amherst

Michael Menaker, University of Virginia

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 (light-dark cycle vs. skeleton photoperiod vs constant conditions), the number of time points, and the means of measurement (behavioral vs physiological vs molecular) will also take place.

Circadian Physiological and Behavioral Methods in Rodents | *Stirling Salon DEF*

Johanna Meijer, Leiden University

This workshop will describe experimental setups for the monitoring of circadian physiology in rodent models (mouse, rat, hamster, and diurnal rodents). Basic physiological and behavioral parameters and underlying protocols will be presented and discussed. At least 10 minutes will be saved for discussion and questions.

Smart-technology and Circadian Rhythms? | *Stirling Salon LMN*

Satchidananda Panda, Salk Institute for Biological Sciences

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.

Basic Molecular Clocks (Definition and Current Theory) | *Stirling Salon GH*

Hanzpeter Herzel, Humboldt University of Berlin

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. The presentation will be ~30-40 minutes, followed by a discussion of ~10-20 minutes.

Advanced Molecular Clocks (Current Open Questions and New Technical Strategies) | *Stirling Salon OPQ*

Carrie Partch, University of California, Santa Cruz

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. It will be a mix of lecture, ~30-40 minutes and discussion, ~10-20 minutes, about how to attack these new areas of research.

What Makes up the SCN? | *Stirling Salon BC*

Martha Gillette, University of Illinois at Urbana–Champaign

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. The presentation will be ~30-40 minutes, followed by a discussion of ~10-20 minutes.

11:15 am – 12:05 pm **Session 2**

Developing and Maintaining Records of Research | *Stirling Salon GH*

Horacio de la Iglesia, University of Washington

Multiple funding agencies require a plan for proper documentation of research that is not limited to the laboratory notebook. This session will stress the importance of data organization, storage, and sharing of research products; focusing on new electronic formats for record keeping. At least 10 minutes will be saved for discussion and questions.

Teaching Chronobiology | *Stirling Salon BC*

Martha Merrow, Ludwig Maximilian University of Munich

A common challenge for chronobiologists at the beginning of their careers is organising teaching. If you expect to teach chronobiology as a part of your future career, consider joining us to discuss some of the methods and models that have been developed and applied. Topics will include curricula, format and resources. If you sign up for this workshop, your 'homework' is to come with an example of a Chronobiology course curriculum that has been taught at the University or post-graduate level.

Mathematical Modeling | *Stirling Salon DEF*

Daniel Forger, University of Michigan

Decades of experimental research have revealed the immense complexity of the molecular and circuit-level construction of the circadian clock system. It is now difficult to appreciate the system in full without mathematical modeling. In this 50-minute workshop, we will discuss the basics of mathematical concepts and techniques relevant to various levels of physiology and molecular biology that make up the circadian clock system.

Zeitgebers: Entrainment of the Circadian Clock | *Stirling Salon IJK*

Jennifer Evans, Marquette University

The internal circadian clock synchronizes with the daily environmental cycles. This 50-minute workshop will introduce the basic concepts and theories of entrainment of the circadian clock as well as the common methodology that are used to study entrainment in bacteria, fungi, plants, flies, and rodents. The general principles will be the main focus, but we will also cover other aspects such as photoperiodic entrainment and non-photic entrainment.

Circadian Rhythms and Disease | *Stirling Salon LMN*

Florian Storch, Douglas Mental Health University Institute

Kenneth Wright, University of Colorado

The interplay between circadian rhythms and disease states is becoming more evident thanks to both animal and human research. This workshop is geared towards beginners in the field of chronobiology and will provide a brief background of recent findings from both the animal and human literature to help prepare the trainee for the meeting. At least 10 minutes will be saved for discussion and questions.

Questions and Controversies in Chronobiology | *Stirling Salon OPQ*

Carl Johnson, Vanderbilt University

Till Roenneberg, Ludwig Maximilian University of Munich

Despite the apparent simplicity of the circadian phenomena, their interpretations at different levels of analysis are not yet congruous. At a molecular level, does the post-translational oscillator (PTO) make a fundamental circadian oscillator even in eukaryotes? Is the entire expression of circadian transcripts driven by the transcription-translation feedback loop (TTFL) of the core clock genes? In oscillatory transcription, is the source of ultrasensitivity cooperative binding or protein sequestration? How does circadian organization in individuals emerge into circadian organization of groups? And do models add predictive power and explanatory value to our understanding of rhythmicity? These are a small sample of questions we will discuss in this 50-minute 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.

12:15 pm – 1:15 pm **Lunch** | *Stirling Ballroom East*

1:15 pm – 2:15 pm ***"Positive Feedback Looping"*** | *Stirling Ballroom East*

This activity will consist of random one-on-one blitz discussions. Participants are asked to pair randomly and discuss for seven minutes, after which they are asked to pair with another participant, and so on, for ~50 minutes. The aim of this activity is to stimulate interaction and exchanges, to allow participants to meet new people, and to "break the ice" before the SRBR conference starts.

2:25 pm – 3:55 pm **Session 3**

Statistical Methods for Time Series Analysis of Rhythms | *Stirling Salon OPQ*

John Hogenesch, University of Cincinnati

Tanya Leise, Amherst College

Analyses of time-series data sets, as frequently required in chronobiological research, can be challenging. This 90 minute workshop will cover various statistical methods that can be used to analyze periodic patterns in biological time-series data (e.g. rhythmicity, period, amplitude, phase, phase shifts). The respective strengths and limitations of each approach will also be discussed, including an overview of statistical software used for such analyses.

Publish or Perish: A Guide to When, Where, and How to Publish Your Work | *Stirling Salon LMN*

William Schwartz, University of Massachusetts Medical School

This 90-minute 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!

Grantsmanship: General Principles | *Stirling Salon IJK*

Douglas McMahon, Vanderbilt University

Eva Schernhammer, Harvard University

Learn the ropes of how to write a competitive grant. This 90-minute session will cover general do's and don'ts applicable to all grant writing, independent of the funding mechanism and country of application. Special emphasis is paid to the description of biological rhythms research for a wide audience of potential reviewers.

Interview Skills & Preparing for the Transition From Postdoc to Independent Research | *Stirling Salon DEF*

Lance Kriegsfeld, University of California, Berkeley

Rae Silver, Columbia University

This 90-minute workshop will discuss how to prepare for independent research positions. We will outline a) how to keep a strong CV, track academic performance and outreach activities, and use professional social media to maximize your marketability, b) how to prepare for a successful job interview, and c) how to initiate and prepare for an independent project. It will also address how the change in roles may affect mentoring relationships and how to handle them. This session will also comprise a mock interview situation and will allow for ample discussion time.

4:10 pm – 5:00 pm **Session 4**

Best Practices for Mentors and Mentees | *Stirling Salon GH*

Eric Mintz, Kent State University

This session will address how creating a mentoring strategy can help you effectively choose the right mentor and approach mentoring others. As a discussion based session, trainees will learn how to identify multiple mentors that they can include in their mentoring network and learn how each mentor/mentee relationship is different.

Transitioning to Non-academic Careers | *Stirling Salon DEF*

Tony Gotter, Merck Research Laboratories

Eric Mabery, Reset Therapeutics Inc.

This workshop will provide an overview of working in the industry following completion of your graduate/postdoc work, and a comparison of research in an industry situation vs. an academic setting. It will also cover where and how to find jobs outside of academia. In addition, insights into the work in a non-profit research institute will be provided in contrast to the industry and academia background. At least 10 minutes will be saved for a discussion.

STAR-PROM-and RT-Biolumicording: New Technologies to Find Transcriptional Regulators and to Study Circadian Gene Expression in Vivo | *Stirling Salon IJK*

Ueli Schibler, University of Geneva

In this workshop, Dr. Schibler will discuss two novel technologies developed during the past few years in his laboratory: STAR-PROM and RT-Biolumicording. These techniques identify transcription factors with unknown DNA-binding specificities and record circadian gene expression in peripheral organs of freely moving mice, respectively. This will be an interactive, 50-minute workshop that encourages open discussion among trainees and Dr. Schibler.

History of Chronobiology | *Stirling Salon BC*

Jay Dunlap, Dartmouth Medical School

This workshop will provide a brief sketch that describes the first observations and studies that pioneered the field of chronobiology. This session is tailored to introduce trainees to the people and key experiments that paved the way for research in circadian rhythms. The presentation will be ~30-40 minutes, followed by a discussion of ~10-20 minutes.

Translational Chronobiology in Humans | *Stirling Salon LMN*

Steven Brown, University of Zurich

Phyllis Zee, Northwestern University

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 be led by both a clinical and basic science researchers in order to 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 translational research.

Clocks and Mental Health (Rhythms & Blues) | *Stirling Salon OPQ*

Samer Hattar, Johns Hopkins University

Colleen McClung, University of Pittsburgh

We tend to get moody at night. We associate spring with excitement and autumn with contemplations. But it is still unclear how the rhythms of days and seasons modulate our mood states. In this 50-minute workshop, we walk through evidence for "rhythms and blues" at brain-circuit, molecular, and genetic levels. Emphasis will be placed on molecular approaches and behavioral assay methods in the rodent system.

5:00 pm **Conclusion of Trainee Professional Development Day**

(Trainee Committee members will wrap-up in each workshop.)

2016 Junior Faculty Workshops

Saturday, May 21

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.

1:00 pm – 2:00 pm **Panel Discussion 1** | *Stirling Ballroom West*

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

Moderator: Karyn Esser, University of Florida

Jake Chen, University of Texas Medical School

Stacey Harmer, University of California, Davis

Antonio (Tony) Nunez, Michigan State University

The panel will discuss the management skills needed to grow and run a successful lab, skills we are not usually formally trained in as scientists, but which are essential nonetheless.

2:20 pm – 3:20 pm **Panel Discussion 2** | *Stirling Ballroom West*

Navigating the Funding Environment: How to Optimize Your Efforts

Moderators: Ilia Karatsoreos, Washington State University and **Ryan Logan,** University of Pittsburgh

Charles Allen, Oregon Health and Sciences University

Hugh Piggins, University of Manchester

Mimi Shirasu-Hiza, Columbia University

Corinne Silva, National Institutes of Health, NIDDK

Funding is hard to come by in the best of times, and the current climate is very tough. This panel will help you learn strategies to optimize your efforts by specifically tailoring and targeting your proposals, and perhaps discover new sources of funding.

3:40 pm – 4:40 pm **Panel Discussion 3** | *Stirling Ballroom West*

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

Moderator: Carla Finkielstein, Virginia Tech

Carla Finkielstein, Virginia Tech

Mary Harrington, Smith College

Horacio de la Iglesia, University of Washington

Even in heavily research oriented institutions, a faculty member is expected to balance teaching, training, and research. This panel will discuss strategies to help in this balancing act. In addition, involvement of undergraduates in the research effort will be a specific focus, as they can be fantastic "junior trainees", and when properly managed contribute greatly to the lab's output.

SRBR 2016 Program Details

Saturday, May 21

9:00 am – 5:00 pm **Trainee Professional Development Day** | *Stirling Hall*
(see details on pages 21-27)

1:00 pm – 4:40 pm **Junior Faculty Workshops** | *Stirling Ballroom West*
(see details on pages 28-29)

3:00 pm – 7:00 pm **Poster Session Setup** | *Inverness Ballroom and Foyer*

7:00 pm – 9:00 pm **Opening Reception** | *Island Clubhouse*

Sunday, May 22

8:00 am – 4:00 pm **Poster Session Setup** | *Inverness Ballroom and Foyer*

8:15 am – 10:30 am **Symposium 1: *Konopka Symposium: Frontiers of Molecular Chronobiology*** | *Stirling Ballroom East*
Chair: Michael Rosbash, Brandeis University

8:15 Introduction

8:30 ***From Konopka's Flies to Human Sleep Behavior***
Ying-Hui Fu, University of California San Francisco

9:00 ***Cell Size Oscillations in the Liver***
Ueli Schibler, University of Geneva

9:30 ***Circadian Clock Regulation of Translation and the Ribosome Code***
Deborah Bell-Pedersen, Texas A&M University

10:00 ***Networks of Noisy Oscillators Make up the Drosophila Circadian Circuit***
Emi Nagoshi, University of Geneva

Symposium 2: *Clock Flexibility and Plasticity: Genes, Neurons and Behavior* | *Stirling Ballroom West*
Chair: Valerie Mongrain, Université de Montréal

8:15 Introduction

8:30 ***Circadian Behavior Relies on Glycinergic Transmission Onto Switching Partners***
Maria Fernanda Ceriani, Fundacion Instituto Leloir

9:00 ***Lessons From Microbial Circadian Systems: Regulation of Virulence, Synthetic Oscillators and Clock-Based Eidetic Memory***
Luis Larrondo, Pontifica Universidad Catolica De Chile

9:30 ***Plasticity in Daily Timing: About Mice and Men***
Roelof Hut, University of Groningen

10:00 ***Circadian Plasticity in Mammals: From Epigenetics to Synapses***
Steven Brown, University of Zurich

Symposium 3: ***Chronopharmacology in Cancer, Shift Work Sleep Disorder and Beyond*** | *Stirling Salon OPQ*
Chair: Francis Lévi, University of Warwick

8:15 Introduction

8:30 ***Circadian-based Anticancer Treatments***
Pasquale Innominato, University of Warwick, The Medical Centre

9:00 ***Chronopharmacology of Antitumor Drugs Focused on Biological Clock***
Shigehiro Ohdo, Kyushu University

9:30 ***Night Shift Work and Resetting of Human Circadian Clocks***
Diane B. Boivin, Douglas Mental Health University Institute, McGill University

10:00 ***Dynamical Coupling Between the Circadian Clock and the Cell Cycle Oscillators***
David Rand, University of Warwick

10:30 am – 11:00 am **Refreshment Break** | *Stirling Hall Foyer*

Exhibits | *Stirling Hall Foyer*

Meet the Professors | *Stirling Salon IJK*

William Schwartz (mammals, SCN, circuits, social entrainment)

Ueli Schibler (mammals, tissue clocks, metabolism, molecular mechanisms)

Martha Merrow (entrainment and rhythms in humans and Neurospora, research transitions to Europe)

Johanna Meijer (mammals, SCN, circuits, light)

Samer Hattar (rodents, retina, ipRGC subtypes, photic changes in mood, sleep, learning)

Daniel Forger (modeling, SCN circuitry, molecular to electrical mechanisms)

Alec Davidson (mammals, SCN, immune clocks, pathology)

Steven Brown (mammals, molecular mechanisms, neural mechanisms, chronotype, sleep)

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

11:00 am – 12:30 pm **Slide Session A:** ***Clocks, Feeding and Metabolism*** | *Stirling Ballroom East*
Chair: Richa Saxena, Massachusetts General Hospital

11:00 **SS1 • *Morning Circadian Misalignment During Insufficient Sleep is Associated With Changes in Plasma Metabolites Linked to Metabolic Dysregulation***
*Christopher Depner, University of Colorado Boulder

11:15 **SS2 • *A 5 Hour Delay in Meal Schedule Affects the Timing of the Human Circadian System***
*Skevoulla Christou, University of Surrey, UK

11:30 **SS3 • *Circadian Timing and Alignment in Healthy Adults: Associations With BMI, Body Fat, Caloric Intake and Physical Activity***
Kelly Baron, Feinberg School of Medicine, Northwestern University

11:45 **SS4 • *Natural Patterns of Food Intake Are a Weak Zeitgeber for the Liver***
Matthew Butler, Oregon Health & Science University

12:00 **SS5 • *Measuring the Physiological Cost of Circadian Desynchrony in Mammals***
David Bechtold, University of Manchester

12:15 **SS6 • *The Impact of Broad Spectrum Bright Light and Exogenous Melatonin on Plasma Glucose and Insulin in Healthy Male Participants***
Mohammed Albreiki, University of Surrey

11:00 am – 12:30 pm **Slide Session B:** ***Circadian Rhythms Across the Cell*** | *Stirling Ballroom West*
Chairs: Steven Brown, University of Zurich and Gad Asher, Weizmann Institute of Science, Israel

11:00 **SS7 • *Around the Clock Lipidomics: Insight Into Daily Oscillations in Subcellular Compartments***
***Philips Group Excellence Award* • Rona Aviram, Weizmann Institute of Science

11:15 **SS8 • *A Non-Classical Nuclear Import Pathway for Clock Proteins***
Achim Kramer, Charité - Universitätsmedizin Berlin

11:30 **SS9 • *Regulation of Second Messenger Pathways by Cryptochrome***
*Pagkapol Yhew Pongsawakul, University of California, San Diego

11:45 **SS10 • *Keeping Mitochondrial Network on Time***
Karen Schmitt, Neurobiology Lab for Brain Aging and Mental Health Transfaculty Research Platform, Molecular & Cognitive Neuroscience University of Basel

12:00 **SS11 • *BMAL1 Translation and Circadian Phenotypes in Mouse Models of Tuberous Sclerosis Complex***
Jonathan Lipton, Boston Children's Hospital, Harvard Medical School

12:15 **SS12 • *Some Rhythm, No Cry***
Marrit Putker, MRC Laboratory of Molecular Biology

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11:00 am – 12:30 pm **Slide Session C:** ***Light, Brain Function and Mental Health*** | *Stirling Salon OPQ*

Chair: Norman F. Ruby, Stanford University

11:00 **SS13 • *Independent Brain Circuits Mediate the Effects of Light on Mood and Learning***
**Vanda Pharma Excellence Award* • Diego Fernandez, Johns Hopkins University

11:15 **SS14 • *Melanopsin Regulates Both Sleep-Promoting and Arousal-Promoting Responses to Light***
Stuart Peirson, University of Oxford

11:30 **SS15 • *Light Modulates Spatial Learning and Memory in a Diurnal Rodent, the Nile Grass Rat (Arvicanthis Niloticus)***
#Joel Soler, Michigan State University

11:45 **SS16 • *Attention Deficits in Night Owls in the Morning***
Andrea Smit, Simon Fraser University

12:00 **SS17 • *Effects of Exercise Training on BMAL1 Knockout Mice***
*Sarah McLoughlin, University of Pennsylvania

12:15 **SS18 • *The Role of BMAL1 in Behavioral Responses to Pheromonal Stimuli***
*Erica Schoeller, University of California, San Diego

11:00 am – 12:30 pm **Slide Session D:** ***Temperature and Cellular Stress*** | *Stirling Salon LMN*

Chair: Leslie Griffith, Brandeis University

11:00 **SS19 • *A Calcitonin Receptor DH31R Regulates Temperature Preference Rhythm in Drosophila***
Fumika Hamada, Cincinnati Children's Hospital Medical Center

11:15 **SS20 • *Store-Operated Calcium Channels Stim and Orai Mediate Temperature Resetting of Circadian Clocks***
**Ron Konopka Excellence Award* • Ozgur Tataroglu, UMass Medical School

11:30 **SS21 • *Search for the Thermosensors Involved in Temperature Dependent Negative Masking Behavior in Mice***
Wataru Ota, Nagoya University

11:45 **SS22 • *Endogenous Temperature Cycles Impact the Formation of Pathological Aggregates***
*Bala Koritala, Institute of Medical Psychology, Ludwig Maximilians University, Munich

12:00 **SS23 • *Neurodegenerative Disease and Circadian Clock Dysfunction: Untangling the Role of Tauopathy***
Joshua Gamsby, USF Byrd Alzheimer's Institute

12:15 **SS24 • *The Chondrocyte Clock Gene BMAL1 Controls Cartilage Homeostasis and Integrity***
Qing-Jun Meng, University of Manchester

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12:45 pm – 1:45 pm **Lunchtime Table Discussions** | *Edinburgh Ballroom West*

Teaching of Chronobiology
Hosts: Luis Larrondo, Mary Harrington

Can We Distinguish Circadian Regulation From Sleep Regulation?
Hosts: Stuart Peirson, Kenneth Wright

Sex Differences in Biological Rhythms: How Extensive Are They? What Are the Challenges?
Hosts: Rae Silver, Francis Lévi

The Future for Chronobiology Research Funding
Host: Corinne Silva (NIDDK/NIH)

4:15 pm – 6:30 pm **Symposium 4: *SRS-SRBR Symposium: Sleep and Circadian Rhythms*** | *Stirling Ballroom East*
Chairs: Fred W. Turek, Northwestern University and Frank Scheer, Harvard Medical School

4:15 Introduction

4:30 ***Circadian Regulation of the Human Sleep-Wake Cycle: Some Recent Insights***
Derk Jan Dijk, University of Surrey

5:00 ***Sleep and Circadian Modulation of the Human Proteome***
Kenneth Wright, The University of Colorado Boulder

5:30 ***Clock Genes Regulate Cell Adhesion Molecules Shaping Sleep Amount and EEG***
Valérie Mongrain, Université de Montréal

6:00 ***Circadian Rhythms and Sleep in Drosophila***
Ravi Allada, Northwestern University

Symposium 5: *Circadian Rhythms in Natural Environments* | *Stirling Ballroom West*
Chair: Stacey Harmer, University of California, Davis

4:15 *Introduction*

4:30 ***Quantitative Variation in the Circadian Clock Confers Adaptation to Natural and Agricultural Settings***
Cynthia Weinig, University of Wyoming

5:00 ***Econeurogenetic Features of the Fly Circadian Clock***
Rodolfo Costa, University of Padova

5:30 ***In Search of Ancestral Sleep***
Horacio de la Iglesia, University of Washington

6:00 ***Foraging Activity Pattern is Shaped by Ecological Interactions and Water Loss Rates in a Diurnal Desert Rodent***
Noga Kronfeld-Schor, Tel Aviv University

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Symposium 6: ***Time Perception and Non-Circadian Timers*** | *Stirling Salon OPQ*
Chair: Diego Golombek, Universidad Nacional de Quilmes

4:15 Introduction

4:30 ***Regulation of Arousal Rhythms***
Kai-Florian Storch, McGill University

5:00 ***Functional and Neural Mechanisms of Interval Timing***
Warren Meck, Duke University

5:30 ***The Impact of the Moon on Bristle Worms and the Sun on Fish – The EMBO Young Investigator Lecture***
Kristin Tessmar-Raible, University of Vienna/ MFPL

6:00 ***Neuroendocrine Mechanisms Underpinning Long-Term Timing of Reproduction***
Valérie Simonneaux, CNRS INCI

8:00 pm – 8:30 pm **Datablitz I** | *Stirling Ballroom East*
Chair: #Adam Contreras, University of California, Davis

Temporal Restricted Feeding Induces Time-Dependent Behavioral Changes in Mice **(S15)**
*Victoria Acosta-Rodríguez

Individual Differences in the Rate of Re-Entrainment to a Phase Advance Predict Anxiety and Depression-Like Behavior **(S41)**
Jeff Anyan

Gravitational Loading at the Beginning of the Active Phase Attenuates Muscle Loss in Unloaded Mouse Hind Limb **(S58)**
*Shinya Aoyama

Beyond Body Weight: How Impaired Leptin Signaling Can Affect Sleep Disordered Breathing **(S94)**
Deanna Arble

Cryptochrome is a Direct Neuronal Ultraviolet Light Sensor **(S34)**
*Lisa Soyeon Baik

Circadian Misalignment and Risk-Taking in Night Shift Workers **(S21)**
*Philip Cheng

Tissue Specific Response of Clock Genes Expression in Peripheral Oscillators in a Rat Model of Shift-Work **(S71)**
*Cinthya Córdoba-Manilla

Aging Decreases Circadian Regulation of Alcohol Sensitivity and Increases Alcohol-Induced Tissue Injury and Mortality **(S38)**
*#Aliza De Nobrega

The Transcriptional Landscape Associated With Photoperiodism **(S93)**
*Laura Flavell

A Role for the Cationic Leak Channel NALCN in Daily Rhythms of Suprachiasmatic Nuclei Activity and Locomotor Behavior **(S102)**
Matt Flourakis

Abnormal PDF Expression Leads to Arrhythmicity in Vrille Mutants **(S11)**
Kushan Gunawardhana

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***Back to the Basics: A Simplified Model of Mammalian Circadian Rhythms* (S84)**
*Kevin Hannay

***ZeitZeiger: Supervised Learning for Oscillatory Data* (S98)**
*Jacob Hughey

***Endothelin-1 Regulates the Diurnal Variation of Sodium Excretion in Male and Female Rats* (S83)**
*#Jermaine Johnston

***Evaluation of Circadian Rhythms and Sleep in the APP/PS1 Mouse Model of Alzheimer's Disease* (S40)**
*Brianne Kent

***CRTC Potentiates Light-Independent timeless Transcription to Sustain Circadian Rhythms in Drosophila* (S6)**
*Mink Yung Kim

***Neuropeptide-F and Acetylcholine Mediate Photic Phase Resetting of Drosophila Circadian Behavior* (S7)**
*Pallavi Lamba

***Chronic Sleep Restriction Increases the Change in Systolic Blood Pressure Between Circadian Night and Day* (S113)**
Andrew McHill

***Photoperiod Interacts with Running Wheel Availability to Modulate Circadian Food Anticipatory Activity in Mice* (S14)**
**Mateusz Michalik

***Global and Hepatocyte-Specific Ablation of BMAL1 Induces Hyperlipidemia and Enhances Atherosclerosis* (S42)**
Xiaoyue Pan

***Nucleotide Variation in Drosophila cryptochrome Linked to Circadian Clock Function: An Association Analysis* (S12)**
Mirko Pegoraro

***Neural Correlates of Food Anticipatory Activity in Mice Subjected to Once or Twice-Daily Feeding Periods* (S16)**
**Ashutosh Rastogi

***Crosstalk Signaling Between Circadian Clock Components and Iron Metabolism* (S95)**
*Samuel Schiffhauer

***The Effect of Bmal1 Deletion in Gonadotropin-Releasing Hormone or Kisspeptin Neurons* (S91)**
*Karen Tonsfeldt

***Circadian Regulation in and by SCN Astrocytes* (S106)**
*Chak Foon Tso

***Time of Feeding Regulates Circadian Gene Expression in Mouse Peripheral Tissues* (S17)**
**Laura van Rosmalen

***The Relationship Between Light Exposure and Subsequent Sleep: What Happens Outside of the Lab?* (S30)**
*Emma Wams

8:30 pm – 10:30 pm **Poster Session I (S1 – S113)** | *Inverness Ballroom and Foyer*

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Monday, May 23

8:15 am – 10:30 am

Symposium 7: ***Epigenetics and Transcription Networks in Circadian Clocks*** | *Stirling Ballroom East*
Chair: Eva Wolf, IMB and University Mainz

8:15 Introduction

8:30 ***Competitive Mechanisms Control the Architecture of Circadian Regulatory Complexes***
Carrie Partch, University of California, Santa Cruz

9:00 ***Circadian Transcriptional Architecture in the Mouse***
Joseph Takahashi, University of Texas Southwestern

9:30 ***Structure/Function Analysis of WC-1 Reveals Mechanisms of Differential Activation of Light Versus Dark Regulation of Frequency and Clock-Controlled Genes***
Jennifer Loros, Geisel School of Medicine

10:00 ***Activation and Repression in Circadian Clock Networks***
Carl Troein, Lund University

Symposium 8: ***New Facets of Microbiology in Chronobiology: From Microbiota-Host Interactions to Natural Populations***|*Stirling Ballroom West*
Chair: Susan Golden, University of California

8:15 Introduction

8:30 ***Rhythmic Host-Microbe Signaling in Symbiosis***
Edward Ruby, Thomas Jefferson University Hospital

9:00 ***Microbiota and Circadian Rhythms***
Ali Keshavarzian, Rush University Medical Center

9:30 ***Insights From Bacterial Clocks to All Circadian Rhythms***
Carl Johnson, Vanderbilt University

10:00 ***New Perspectives on Frq-Less Rhythms in Neurospora***
Patricia Lakin-Thomas, York University

Symposium 9: ***Role of the Circadian System in Cardiovascular Health and Disease*** |*Stirling Salon OPQ*
Chair: Karen Gamble, The University of Alabama at Birmingham

8:15 Introduction

8:30 ***Role of the Circadian System in Cardiovascular Health and Disease in Humans***
Frank Scheer, Brigham and Women's Hospital, Harvard Medical School

9:00 ***Molecular Time. Consequences of Circadian Disturbances for Cardiovascular Health and Disease.***
Tami Martino, University of Guelph

9:30 ***Essential Roles of the Cardiomyocyte Circadian Clock***
Martin Young, The University of Alabama at Birmingham

10:00 ***Per1 and the Kidney Clock in the Regulation of Renal Sodium Transport***
Michelle Gumz, University of Florida

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10:30 am – 11:00 am **Refreshment Break** | *Stirling Hall Foyer*

Exhibits | *Stirling Hall Foyer*

Meet the Professors | *Stirling Salon IJK*

Kenneth Wright (humans, shift-work, metabolism, sleep)

Fred Turek (mammals, sleep, genetic mechanisms, seasonal rhythms, aging, metabolism)

Rae Silver (mammals, SCN, circuits, light)

Tanya Leise (modeling, circuits, mathematical approaches)

Achim Kramer (mammals, post-translational mechanisms, high throughput cell culture screens, immune clocks, CRIPSR/Cas9)

Carl Johnson (cyanobacteria, mammals, clock genes)

Vincent Cassone (avian clocks, photoentrainment, melatonin, bird song, GI clocks)

Ravi Allada (*Drosophila*, clock genes, genetics)

11:00 am – 12:30 pm **Slide Session E: *Clocks and Immunity*** | *Stirling Salon LMN*
Chair: Shigenobu Shibata, Waseda University

11:00 **SS25 • *Timing of Parasitic Helminth Infection is Critical in Determining Long-Term Adaptive Immune Responses***
**Thomas Hopwood, University of Manchester

11:15 **SS26 • *Achilles is a Circadian Clock Controlled Gene That Regulates Innate Immune Function in Drosophila***
Michael Hughes, UMSL

11:30 **SS27 • *Simulated Night Shift Disrupts Circadian Rhythms of Immune Functions in Humans***
Marc Cuesta, Douglas Mental Health University Institute, McGill University

11:45 **SS28 • *Characterization of the Circadian Control of Human Circulating Neutrophils***
Krisztina Ella, Semmelweis University

12:00 **SS29 • *Role of Inflammatory Signaling in the Mechanism by Which the Saturated Fatty Acid, Palmitate, Modulates Circadian Clock Properties***
***Reset Therapeutics Excellence Award* • Sam-Moon Kim, Texas A&M University

12:15 **SS30 • *A Novel Mechanism Links Inflammation to the Clock Through REV-ERBα Protein Stability***
**Marie Pariollaud, University of Manchester

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11:00 am – 12:30 pm **Slide Session F:** ***Post-Transcriptional Regulation in the Clock*** | *Stirling Ballroom East*
Chair: Seung-Hee Yoo, UT Health Science Center at Houston

11:00 **SS31 •** ***A Period2 Phosphoswitch Keeps the Beat in the Rising Heat***
Jae Kyoung Kim, Korea Advanced Institute of Science and Technology

11:15 **SS32 •** ***CNOT1 Promotes Phosphorylation of Mammalian Clock Proteins via PKA***
Guocun Huang, UT Southwestern Medical Center

11:30 **SS33 •** ***The E3-Ubiquitin Ligase Mdm2 Targets Period 2 for Degradation and Influences the Circadian Period Length***
Jingjing Liu, Virginia Tech

11:45 **SS34 •** ***Clock Transcription Factor CCA1 is Regulated Through Sumoylation***
Louise Hansen, University of Edinburgh

12:00 **SS35 •** ***Determining How CLK Promotes CYC Expression and Clock Function in Drosophila***
*Tianxin Liu, Texas A&M University

12:15 **SS36 •** ***Exploring the Connection Between Circadian Clock, Long Non-Coding RNA and Heterochromatin With Age***
Jinhee Park, Rutgers University

11:00 am – 12:30 pm **Slide Session G:** ***Photoreception and Physiology*** | *Stirling Salon OPQ*
Chair: Samer Hattar, Johns Hopkins University

11:00 **SS37 •** ***Rhodopsin 7 Reduces Light Sensitivity of the Eyes and Affects Circadian Photoreception in Fruit Flies***
Charlotte Helfrich-Förster, University Wuerzburg

11:15 **SS38 •** ***A Photoreceptor Clock is Required for Dorsal Suppression of S Opsin in the Mouse Retina***
Sujata Rao, Cleveland Clinic

11:30 **SS39 •** ***Opn5-Mediated Photoentrainment of Retinal Circadian Clocks***
Ethan Buhr, University of Washington

11:45 **SS40 •** ***Dichotomous Impact of Light Flashes on Circadian Phase Shifting and Melatonin Suppression in Humans***
Jamie Zeitzer, Stanford University

12:00 **SS41 •** ***Homeostatic Slow-Wave Sleep Response to Sleep Loss Depends on Age and Prior Light History***
Virginie Gabel, Centre for Chronobiology, Basel

12:15 **SS42 •** ***Probing Entrainment of Ostreococcus Tauri Circadian Clock by Green and Blue Light Through a Mathematical Modeling Approach***
Marc Lefranc, University of Lille

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11:00 am – 12:30 pm **Slide Session H: *Neurotransmitters, Channels and Neuronal Networks*** | *Stirling Ballroom West*
Chair: *Hugh Piggins, University of Manchester*

11:00 **SS43 • *Calcium Circadian Rhythmicity in the Suprachiasmatic Nucleus: Cell Autonomy and Network Reinforcement***
Takako Noguchi, University of California, San Diego

11:15 **SS44 • *Inferring the Functional Resynchronization Network in the Suprachiasmatic Nucleus***
**John Abel, Harvard University

11:30 **SS45 • *Inhibiting Matrix Metalloproteinases 2 and 9 Alters Circadian Neuronal Firing Patterns in the Suprachiasmatic Nucleus***
*Kathryn Abrahamsson, University of Tennessee

11:45 **SS46 • *Glial-Neuronal Signalling Controls Circuit-Level Coupling in the Suprachiasmatic Nucleus***
Marco Brancaccio, MRC Laboratory of Molecular Biology- Division of Neurobiology

12:00 **SS47 • *SCN Neurons of Cryptochrome-Deficient Mice Lack Circadian Timing in Intrinsic Excitability States and Do Not Gate Responses to Excitatory Input***
Mino Belle, University of Manchester

12:15 **SS48 • *BK Channel Inactivation Regulates Daytime SCN Excitability, Circuit and Behavioral Rhythmicity***
Andrea Meredith, University of Maryland School of Medicine

12:45 pm – 1:45 pm **Lunchtime Table Discussions** | *Edinburgh Ballroom West*

Is There Anything Left to Learn About the Circadian Timekeeping Mechanism?
Hosts: Seung-hee Yoo, Mary Cheng

Evolution of Circadian Clocks: When, How and Why Did Clock Arise?
Hosts: Eran Tauber, Cynthia Weinig

The Future for Chronobiology Research Funding – Table 1
Host: Janet He (NINDS/NIH)

The Future for Chronobiology Research Funding – Table 2
Host: Michael Sesma (NIGMS/NIH)

2:00 pm – 3:00 pm **JBR Editors Meeting, SAGE Publishers** | *Stirling Salon DEF*

3:15 pm – 4:15 pm **Workshop I** | ***Is it Possible to Translate Chronobiology Findings to Real Life, Health and Society?*** | *Stirling Ballroom*
Chair: Ellen Frank, University of Pittsburgh School of Medicine

Panelists: Francis Lévi, University of Warwick
Till Roenneberg, Institute for Medical Psychology
Eva Schernhammer, Harvard Medical School
Christopher Winrow, Merck Research Laboratories
Phyllis Zee, Northwestern University

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4:30 pm – 6:30 pm **Presidential Symposium:** ***Circuits, Genes and Behavior*** | *Stirling Ballroom*

Circuits, Genes and Behaviour: A View from the SCN
Michael Hastings, MRC Laboratory of Molecular Biology

The Circadian Brain Network and Behavior in Drosophila
Michael Rosbash, Brandeis University

8:00 pm – 8:30 pm **Datablitz II** | *Stirling Ballroom East*
Chair: Roelof Hut, University of Groningen

The MYC Oncogene Disrupts Circadian Rhythm and Metabolism in Cancer Through Modulation of REV-ERB and BMAL1 **(M2)**
*Brian Altman

Cold-Induced Period Transcription Links Environmental Temperature to the Drosophila Molecular Clock **(M12)**
**Akanksha Bafna

Genome-Wide Characterization of the Molecular Response of the Circadian Clockwork to Temperature in Drosophila **(M8)**
*Naveh Evantal

Diel Flight Activity Behavior of Wild Caught Anopheles farauti s.s and An. hinesorum Malaria Mosquitoes From Northern Queensland, Australia: Temporal Differences that Might Contribute to Speciation **(M98)**
*Gary George

Vasopressin Mediates Clock-Driven Anticipatory Thirst **(M105)**
*Claire Gizowski

Exploring Physiological Changes Underlying Protection from Severe Sleep Restriction in Migrating Birds **(M89)**
*William Horton

Circadian Rhythms in Actin Dynamics and Wound Healing **(M91)**
Ned Hoyle

24 H Metabolic Profiling in Obesity and Type 2 Diabetes (T2DM) **(M47)**
*Cheryl Isherwood

Circadian Regulation of Xenobiotic Metabolism **(M46)**
*Anna Kriebs

Diapause in Drosophila melanogaster **(M11)**
*Ane Martin Anduaga

Clock Genes Regulate Circadian Gating of Parturition and Gestation Length **(M4)**
*Carmel Martin-Fairey

4C-Seq in Mouse Liver Reveals Clock-Dependent Rhythmic Chromatin Contacts **(M50)**
*Jérôme Mermet

Molecular Description of the Poised CRY:CLOCK:BMAL1 Repressive Complex **(M51)**
*Alicia Michael

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Chloride Cotransporter KCC2 Essential for GABAergic Hyperpolarization in the SCN **(M101)**
Anneke Olde Engberink

Regulation of Mitochondrial Dynamics by the Circadian Deadenylase Nocturnin **(M72)**
*Yasemin Onder

CRY Acts as a Cofactor for the SCF-FBXL3 Mediated Degradation of Novel Substrates **(M53)**
*Stephanie Papp

Integration of Light Intensity Information Into the Clock Neuron Network of Drosophila melanogaster **(M6)**
*Matthias Schlichting

Ultradian Feeding in Mice Not Only Affects the Peripheral Clock in the Liver, But Also the Master Clock in the Brain **(M90)**
Satish Sen

Circadian Profiles of Light, Activity, and Body Temperature for Non-Invasive Physiology Prediction in Humans **(M22)**
*Benjamin Smarr

Regulation of the Mammalian Circadian Clock Transcriptional Output by CLOCK:BMAL1 **(M52)**
Alexandra Trott

The Effects of Circadian Misalignment During Adolescence on Mood and Alcohol Sensitivity **(M37)**
*Chelsea Vadnie

Trends in Self-Reported Hourly Lighting and Sleep in a Global Dataset of Travelers **(M21)**
Olivia Walch

Per1: Venus Arcuate Neurons Exhibit Robust Rhythms in Excitability **(M61)**
*Adam Watson

Circadian Translational Profiling of the Drosophila Head Fat Body Reveals Potential Novel Roles for a Peripheral Oscillator **(M10)**
*Amy Yu

Circadian Clock Control by Polyamine Levels Through a Mechanism That Declines with Age **(M96)**
*Ziv Zwighaft

8:30 pm – 10:30 pm **Poster Session II (M1 – M112)** | *Inverness Ballroom and Foyer*

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Tuesday, May 24

8:15 am – 10:30 am

Symposium 10: ***Biological Rhythms in Immune Responses and Infectious Diseases*** | *Stirling Ballroom East*
Chair: Andrew Loudon, University of Manchester

8:15 Introduction

8:30 ***How Immune Cell Clocks Regulate Inflammatory Responses***
Julie Gibbs, University of Manchester

9:00 ***Circadian Rhythms in Leukocyte Migration***
Christoph Scheiermann, Ludwig-Maximilians-University Munich

9:30 ***Circadian Modulation of the Innate and Adaptive Immune Response***
Ruud Buijs, Institute for Biomedical Research

10:00 ***Circadian Regulation of Allergic Reaction***
Atsuhito Nakao, University of Yamanashi

Symposium 11: ***Systems Chronobiology*** | *Stirling Ballroom West*
Chair: Felix Naef, EPFL

8:15 Introduction

8:30 ***Transcriptional Response of Neurospora to Light Cues***
Michael Brunner, Heidelberg University Biochemisty Center

9:00 ***The Rhythmic Transcriptome in Tissues of Aging Mice***
Pål Westermark, Charite-Universitatsmedizin Berlin

9:30 ***Time for Precision Medicine: From Big Data to Improved Therapeutics***
John Hogenesch, University of Cincinnati College of Medicine

10:00 ***Orchestration of Liver Proteome by Circadian and Feeding Rhythms***
Frédéric Gachon, Nestlé Institute of Health Sciences

Symposium 12: ***Rhythms Over the Lifespan*** | *Stirling Salon OPQ*
Chair: Elizabeth Klerman, Brigham and Women's Hospital

8:15 Introduction

8:30 ***Circadian Rhythms in Older Adults***
Jeanne Duffy, Brigham & Women's Hospital, Harvard Medical School

9:00 ***The Adolescent Central Circadian Clock and Its Response to Bright Light***
Stephanie Crowley, Rush University Medical Center

9:30 ***Entrainment of the Circadian Clocks During Early Developmental Stages***
Alena Sumova, Institute of Physiology, Czech Academy of Sciences

10:00 ***Circadian Rhythms in Long-Living Naked Mole Rat***
Roman Kondratov, Cleveland State University

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10:30 am – 11:00 am **Refreshment Break** | *Stirling Hall Foyer*

Exhibits | *Stirling Hall Foyer*

Meet the Professors | *Stirling Salon IJK*

Phyllis Zee (humans, translational-clinical rhythms, sleep)

Debra Skene (humans, aging, treatment of circadian disruption, light, melatonin)

Frank Scheer (humans, clinical rhythms, and sleep)

Till Roenneberg (sleep, chronotypes, entrainment, *Neurospora*)

Hugh Piggins (mammals, SCN, circuits, neuropeptide signaling, electrophysiology)

Satchin Panda (mammals, SCN, light, clock genes, tissue clocks, feeding rhythms)

Michael Hastings (rodents, SCN, molecular mechanisms, circuits)

Patrick Emery (*Drosophila*, behavioral genetics, light and temperature entrainment, circuitry)

11:00 am – 12:30 pm **Slide Session I: *Consequences of Circadian Disturbance*** | *Stirling Ballroom East*

Chair: Carolina Escobar, Universidad Nacional Autónoma de México

11:00 **SS49 • *"Of Islands and Pancakes": A Novel Method to Quantify and Visualize Mistimed Rhythms***
Dorothee Fischer, Harvard T.H and Chan School of Public Health

11:15 **SS50 • *Developmental Origin of Health and Disease (DOHaD) and the Circadian Clock: Later Life Health Effects of Gestational Circadian Rhythm Disturbance in Mice***
Gijsbertus van der Horst, University Medical Center

11:30 **SS51 • *Metabolic Consequences of Internal Desynchrony***
*Vincent van der Vinne, Umass Med School

11:45 **SS52 • *Circadian Rhythm De-Synchronization Exacerbates Pathological Outcomes in an Animal Model of Ischemic Stroke***
David Earnest, Texas A&M University Health Science Center

12:00 **SS53 • *Night Shift Work Disrupts Fractal Regulation of Human Motor Activity***
Kun Hu, Brigham & Women's Hospital/Harvard Medical School

12:15 **SS54 • *Unravelling the Mechanisms of Chronic Circadian Rhythm Disturbance Using Transcriptomics and Metabolomics Approaches***
Linda van Kerkhof, National Institute for Public Health and the Environment

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11:00 am – 12:30 pm **Slide Session J:** ***Evolution, Synthetic Biology, Environment and Circadian Clocks*** | *Stirling Salon LMN*
Chair: Charalambos Kyriacou, University of Leicester

11:00 **SS55 • *A Tunable Artificial Circadian Clock in Clock-Defective Mice***
Choogon Lee, Florida State University

11:15 **SS56 • *Circadian and Infradian Clocks in the Urochordate Botryllus schlosseri***
Rachel Ben-Shlomo, University of Haifa - Oranim

11:30 **SS57 • *Pollutant Affects on the Circadian Rhythm of Daphnia pulicaria***
Jennifer Hurley, Renssealer Polytechnic Institute

11:45 **SS58 • *New Insights Into the Genetics of Diurnal/Nocturnal Preference***
Eran Tauber, University of Leicester

12:00 **SS59 • *Codon Usage Affects Drosophila Period Protein Structure and Function***
Jingjing Fu, UT Southwestern Medical Center

12:15 **SS60 • *Circadian Genes, Photoperiodic Clock and Diapause in Insect, Pyrrhocoris apterus***
David Dolezel, Institute of Entomology

11:00 am – 12:30 pm **Slide Session K:** ***Clocks and Neuropeptides*** | *Stirling Salon OPQ*
Chair: Christopher Colwell, UCLA

11:00 **SS61 • *Synchronous Drosophila Circadian Pacemakers Display Non-Synchronous Ca2+ Rhythms in Vivo***
***Ron Konopka Excellence Award* • Xitong Liang, Washington University in St. Louis

11:15 **SS62 • *The Small GTPase RHO1 is Required in a Dosage-Dependent Manner to Align Peptidergic Control of Behavioural Rhythms With Clock-Controlled Gene Expression***
Miguel Ramírez Moreno, University of Southampton

11:30 **SS63 • *Reciprocal Communications of Clock Neurons via PDF and CCHa1 Neuropeptides in Drosophila***
Taishi Yoshii, Okayama University

11:45 **SS64 • *The PTTH Neuropeptide Couples Central and Peripheral Clocks in Drosophila***
John Ewer, CINV, Universidad de Valparaiso

12:00 **SS65 • *Decoding the Firing Patterns of SCN Vip Neurons***
*Cristina Mazuski, Washington University in St. Louis

12:15 **SS66 • *Doublecortin-Like Regulates Circadian Rhythms of Locomotor Activity by Controlling Vasopressin Signaling in the Suprachiasmatic Nucleus***
Erno Vreugdenhil, Leiden University Medical Center

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11:00 am – 12:30 pm **Slide Session L: *Sleep*** | *Stirling Ballroom West*
Chair: Martha Vitaterna, Northwestern University

11:00 **SS67 • *Cerebral Underpinnings of Human Circadian Performance Modulations During Sleep Loss***
Christian Cajochen, Centre for Chronobiology, Psychiatric Hospital of the University of Basel

11:15 **SS68 • *Social Regulation of Naturally Occurring Plasticity in Sleep and Circadian Rhythms in Bees***
Guy Bloch, Hebrew University of Jerusalem

11:30 **SS69 • *Light-Dependent Regulation of Sleep/Wake States by Prokineticin 2 in Zebrafish***
David Prober, California Institute of Technology

11:45 **SS70 • *The Lateral Line Confers Evolutionarily Derived Sleep Loss in the Mexican Cavefish***
Alex Keene, Florida Atlantic University

12:00 **SS71 • *Sexually Dimorphic Regulation of Sleep in Drosophila***
Kyunghee Koh, Thomas Jefferson University

12:15 **SS72 • *Dissection of the Downstream Circadian Circuitry Involved in Sleep Regulation***
Fang Guo, HHMI/Brandeis University

12:45 pm – 1:45 pm **Lunchtime Table Discussions** | *Edinburgh Ballroom West*

Circadian Outreach Strategies: How to Disseminate Chronobiology Knowledge to the Public and Medical Doctors?
Hosts: David Welsh, Susan Golden, Martha Merrow

Have We Forgotten Nonphotic Entrainment?
Hosts: Eric Mintz, Debra Skene

The Future for Chronobiology Research Funding – Table 1
Host: Janet He (NINDS/NIH)

The Future for Chronobiology Research Funding – Table 2
Host: Michael Sesma (NIGMS/NIH)

12:45 pm – 2:45 pm **SRBR Board of Directors Meeting** | *Stirling Salon DEF*

3:15 pm – 4:15 pm **Workshop II** | ***Big Data Sets: How Useful Are They and How to Mine for Gold?*** | *Stirling Ballroom East*
Chair: John Hogenesch, University of Cincinnati College of Medicine

Panelists: Michael Hughes, UMSL
Tami Martino, University of Guelph
David Rand, University of Warwick
Debra J. Skene, University of Surrey
Joseph Takahashi, University of Texas Southwestern/Howard Hughes Medical Institute

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4:15 pm – 6:30 pm

Symposium 13: ***Neuronal Networks and Central Clock Function*** | *Stirling Ballroom East*

Chair: Patrick Emery, University of Massachusetts Medical School

4:15 Introduction

4:30 ***Reciprocal Interactions Between Behaviour and SCN Electrical Activity***
Johanna Meijer, Leiden University Medical Center

5:00 ***Assembling a Clock System: Ontogeny of Circadian Synchrony in the SCN***
Erik Herzog, Washington University

5:30 ***Beyond Simple Timekeeping in the SCN***
Daniel Forger, University of Michigan

6:00 ***Physiological Effects of Temperature on a Circadian Clock Neuron Network***
Orie Shafer, University of Michigan

Symposium 14: ***Circadian Rhythms in Metabolism, Diabetes and Obesity*** |*Stirling Ballroom West*

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

4:15 Introduction

4:30 ***Behavioral and Dietary Chronotype: Predictors and Metabolic Consequences***
Kristen Knutson, University of Chicago

5:00 ***Obesity and the Clocks: Are We Predestinated?***
Marta Garaulet, Universidad de Murcia

5:30 ***Time-Restricted Feeding Imparts Pleiotropic Effects on Multiple Organs***
Satchidananda Panda, Salk Institute for Biological Studies

6:00 ***A Clock Mediated Trade-Off Between Growth and Starvation Tolerance in Cyanobacteria***
Michael Rust, University of Chicago

Symposium 15: ***Non-Traditional Models: What Do They Teach Us About Biological Rhythms?*** | *Stirling Salon OPQ*

Chair: Nicholas Foulkes, Karlsruhe Institute of Technology

4:15 Introduction

4:30 ***Monarch Butterfly CRYPTOCHROME 2 Represses Circadian Transcription Through BMAL1 C-Terminal Domain***
Christine Merlin, Texas A&M University

5:00 ***From Genome to Function: Timing Adaptations in the Intertidal Insect Clunio Marinus***
Tobias Kaiser, Center for Integrative Bioinformatics / Max F Perutz Laboratories

5:30 ***Diel and Circadian Timing in the Anopheles gambiae Malaria Mosquito***
Giles Duffield, University of Notre Dame

6:00 ***Life at Extremes: Circadian Clocks in the Dark and Cold***
Cristiano Bertolucci, University of Ferrara

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8:00 pm – 8:30 pm **Datablitz III** | *Stirling Ballroom East*

Chairs: Lisa Soyeon Baik, University of California Irvine and Yong Zhang, University of Nevada Reno

Lhx1-Regulated Transcriptional Networks Control Sleep/Wake Coupling and Thermal Resistance of the SCN Clockworks **(T103)**
*Joseph Bedont

Comparison of the Circadian Clock of Social and Solitary Bees **(T78)**
*Katharina Beer

Translation Across Time and Space **(T88)**
Violeta Castelo-Szekely

Circadian Clock Regulation of mRNA Translation Through the Eukaryotic Elongation Factor eEF-2 **(T55)**
Stephen Caster

Hepatic miRNA Loss Resulted in Altered Adaptation to Food Restriction in Mice **(T93)**
**Ngoc-Hien DU

A Functional Synthetic Hybrid Circadian Oscillator Generated Through Transcriptional Rewiring **(T53)**
*#Alejandra Goity

A Systems-Driven Experimental Approach Reveals the Complex Regulatory Distribution of p53 by Circadian Factors **(T96)**
Tetsuya Gotoh

Using Signal Processing to Explore Diversity: Analyses of Locomotor Activity and Core Body Temperature Reveal Sex Differences in Mice **(T82)**
*Azure Grant

A Piece of Chocolate in the Dark Phase Prevents Circadian Desyncrhony and Overweight in Male Shift-Worker Rats **(T15)**
#Mara Guzman-Ruiz

Novel Transcriptional Mechanisms of Muscle-Specific Clock Output **(T56)**
*Brian Hodge

Integrative Analysis of Multiple Genomics Datasets Reveals Key Networks and Pathways Underlying the Circadian and Homeostatic Regulation of Sleep **(T110)**
*Peng Jiang

TNF Signaling Regulates the Circadian Rhythm of Myogenic Responsiveness and Systemic Blood Pressure **(T83)**
*Jeff Kroetsch

Selective Inhibition of Casein Kinase I Delta Enhances Hippocampal Dependent Learning and Alters Expression of Circadian Clock Proteins in the Hippocampus **(T36)**
*Heather Mahoney

Ion Channels that Regulate Neuronal Physiology and Circadian Behavior in Drosophila melanogaster **(T7)**
Nara Ines Muraro

Circadian Control of CD8+ T Cell Response **(T28)**
*Chloé Nobis

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***Phase-Angle Differences Between Dim-Light Melatonin Onset and Sleep Onset in Patients Diagnosed With Delayed Sleep Phase Syndrome* (T22)**
*Catia Reis

***An Evolutionary Hotspot in CRYPTOCHROME's Structure Tunes the Period of the Mammalian Circadian Rhythm* (T52)**
*Clark Rosensweig

***Mice Are Able to Acquire Multiple Independent Time Memories* (T75)**
*Choden Shrestha

***Sleep and Circadian Regulation of Metabolic Rate in Drosophila* (T98)**
*Melissa Slocumb

***Transcriptional Regulatory Logic of the Diurnal Cycle in the Mouse Liver* (T77)**
*Jonathan Sobel

***Entrainment Ability of the Peripheral Circadian Clocks by Light, Food, Stress, and Exercise in Aged Mice* (T97)**
*Yu Tahara

***Differential Roles for Mammalian Cryptochromes in the Retinal Circadian Clock* (T32)**
*Jovi Wong

***Circadian Clocks Modulate Huntington's Disease via Stress Response Pathways* (T35)**
*Fangke Xu

***BMAL1 Deletion in Adulthood Facilitates Adaptation to Disrupted Light/Dark Schedules in Mice* (T87)**
Guangrui Yang

***Transgenerational Epigenetic Effects of Cocaine on Circadian Behavior and Cocaine Reward* (T40)**
*Alexandra Yaw

***Circadian Rhythm of Redox State in Hippocampal CA1 Regulates Neuronal Membrane Excitability* (T58)**
*Mia Yu

***A Dissociation Between Diurnal Cycles in Locomotor Activity, Feeding Behavior and Hepatic PERIOD2 Expression in Chronic Alcohol-Fed Mice* (T65)**
*Peng Zhou

8:30 pm – 10:30 pm **Poster Session III (T1 – T113)** | *Inverness Ballroom and Foyer*

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Wednesday, May 25

8:15 am – 10:30 am

Symposium 16: ***Post-Transcriptional/Translational Circadian Mechanisms*** | *Stirling Ballroom East*

Chair: Eun Young Kim, Ajou University School of Medicine

8:15 Introduction

8:30 ***Rhythmic Post-Transcriptional Control Mechanisms***
Carla Green, UT Southwestern Medical Center

8:55 ***Post-Transcriptional Modification Regulates Clock Oscillation and Extends mRNA Rhythms***
Yoshitaka Fukada, School of Science,The University of Tokyo

9:20 ***Alternative Splicing and Post-Transcriptional Regulation of Timeless mRNA is Essential for the Adaptation of the Circadian System to Temperature in Drosophila***
Sebastian Kadener, The Hebrew University of Jerusalem

9:45 ***Atomic-Resolution Mechanism of the Cyanobacterial Circadian Clock***
Andy LiWang, University of California, Merced

10:10 ***Novel Elements Effecting the Circadian Oscillator and Output in Neurospora***
Jay Dunlap, Geisel School of Medicine at Dartmouth

Symposium 17: ***Non-Visual Effects of Light and Other Zeitgebers*** | *Stirling Ballroom West*

Chair: Claude Gronfier, Inserm, Université Claude Bernard

8:15 Introduction

8:30 ***Visual Information Reaching the Mouse SCN***
Robert Lucas, University of Manchester

8:55 ***Non-Canonical Light Signalling Contributes to Drosophila Circadian Clock Entrainment***
Ralf Stanewsky, University of London, University College London

9:20 ***Circadian Rhythms and Light Response in Humans***
Charles Czeisler, Brigham & Women's Hospital

9:45 ***Chemical Integration of Circadian and Photoperiodic Clocks in Plants***
Brian Zoltowski, Southern Methodist Univerity

10:10 ***The Role of Pseudo-Response Regulators in Maintaining Cyclic Gene Expression in Arabidopsis***
Eva Farre, Michigan State University

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Symposium 18: ***Circadian Rhythms in the Context of Addiction, Mood and Neurodegenerative Disorders*** | *Stirling Salon OPQ*
Chair: Colleen McClung, University of Pittsburgh

8:15 Introduction

8:30 ***Ethanol-Induced Plasticity in the SCN***
Rebecca Prosser, University of Tennessee Knoxville

8:55 ***Late Life Cyclers: The Old Clock That Could***
Jadwiga Giebultowicz, Oregon State University

9:20 ***Evidence for Circadian Modulation of Reward in Humans and Its Relevance to Adolescent Substance Abuse***
Brant Hasler, University of Pittsburgh School of Medicine

9:45 ***Circadian Clocks in Fibroblast and Mouse Models of Mood Disorders***
David Welsh, University of California, San Diego

10:10 ***Sleep and Circadian Rhythm Characteristics Across the Psychosis Spectrum***
Katharina Wulff, University of Oxford

10:30 am – 11:00 am **Refreshment Break** | *Stirling Hall Foyer*

Exhibits | *Stirling Hall Foyer*

Meet the Professors | *Stirling Salon IJK*

Erik Herzog (rodents, SCN, astrocytes, neuronal circuits)

David Welsh (single cells, SCN, bioluminescence imaging)

Joseph Takahashi (mouse genetics, clock genes, SCN circuits)

Colleen McClung (rodents, role of clock mechanisms in neuropsychiatric disease)

Robert Lucas (retina, entrainment, responses to light)

Green Carla (rodents, clock output, metabolism, post-transcriptional mechanisms)

Charles Czeisler (humans, sleep and circadian rhythms)

Susan Golden (cyanobacteria, clock genes, functional genomics, biofuels)

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11:00 am – 12:30 pm **Slide Session M:** ***Micro-Organisms, Cancer and Cell Cycle*** | *Stirling Ballroom West*
Chair: Carla Finkielstein, Virginia Polytechnic Institute and State University

11:00 **SS73 • *A Human Gut Bacterium Express Circadian Rhythms and Swarming Response to Melatonin***
***Condor Instrument Excellence Award* • Jiffin Paulose, University of Kentucky

11:15 **SS74 • *Trypanosoma Brucei Infection Accelerates the Mouse Circadian Clock***
*Filipa Rijo-Ferreira, UT Southwestern / IMM

11:30 **SS75 • *Activating Circadian Clock Function in Cancer Cells Inhibits Tumor Growth***
Silke Kiessling, McGill / Douglas Mental Health University Institute

11:45 **SS76 • *Real-Time Bioluminescence Reporters of Circadian Rhythms and Signaling Pathways in Solid Tumours in Vitro and in Vivo***
Robert Dallmann, University of Warwick

12:00 **SS77 • *Intercellular Coupling of Cell Cycle and Circadian Clock in Adult Stem Cell Cultures***
Toru Matsu-ura, University of Cincinnati

12:15 **SS78 • *Cry2 and Fbxl3 Promote Circadian Destruction of c-Myc***
Katja Lamia, The Scripps Research Institute

11:00 am – 12:30 pm **Slide Session N:** ***Clock Outputs*** | *Stirling Ballroom East*
Chair: Han Wang, Soochow University

11:00 **SS79 • *Loss of ZBTB20 Causes Unimodal Behavioral Rhythms and Impairs Circadian Output***
Ying Xu, Nanjing University to Soochow University

11:15 **SS80 • *How Does the Mammalian Circadian Clock Generate Tissue-Specific Rhythmic Outputs?***
Joshua Beytebiere, Texas A&M University

11:30 **SS81 • *Integrating Functional Genomics Data Reveals Tissue-Dependent Mechanisms Underlying Circadian Gene Expression***
*Jake Yeung, EPFL

11:45 **SS82 • *Mining for Novel Candidate Clock Genes in the Circadian Regulatory Network***
Bharath Ananthasubramaniam, Charite Universitaetsmedizin Berlin

12:00 **SS83 • *Transcriptional Variation Across SCN Subregions***
Eric Mintz, Kent State University

12:15 **SS84 • *Altered Bile Acid Dynamics in Mice Lacking Nocturnin***
***DSI Excellence Award* • Jeremy Stubblefield, UT Southwestern Medical Center

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11:00 am – 12:30 pm **Slide Session O:** ***Light and Neuronal Networks*** | *Stirling Salon OPQ*
Chair: François Rouyer, CNRS

11:00 **SS85 •** ***Drosophila Clockwork Dynamics: Functional Contributions of Strong and Weak Neuronal Oscillators to Circadian Synchrony and Light Response***
Todd Holmes, University of California at Irvine School of Medicine

11:15 **SS86 •** ***Dual-Mode Control of Network Flexibility in the Drosophila Clock Circuit***
Abhishek Chatterjee, NeuroPSI, CNRS UMR-9197

11:30 **SS87 •** ***Optogenetic Investigation of SCN Communication and Photoperiodicity***
*Michael Tackenberg, Vanderbilt University

11:45 **SS88 •** ***Polarity of GABAA Signaling Influences the Dynamics of SCN Coupling***
Jennifer Evans, Marquette University

12:00 **SS89 •** ***Geniculohypothalamic GABAergic Signalling Modulates Suprachiasmatic Nuclei Responses to Retinal Input***
Lydia Hanna, University of Manchester

12:15 **SS90 •** ***Atypical Opsins in Photoentrainment and Development***
Richard Lang, Cincinnati Children's Hospital Medical Center

11:00 am – 12:30 pm **Slide Session P:** ***Human Health, Behavior and Society*** | *Stirling Salon LMN*
Chair: Phyllis Zee, Northwestern University

11:00 **SS91 •** ***Genome-Wide Association Analysis and Functional Follow-Up Identifies Novel Loci for Chronotype in 100,420 Individuals From the UK Biobank***
*Jacqueline Lane, Massachusetts General Hospital

11:15 **SS92 •** ***Differential DNA Methylation at Circadian Clock (Related) Gene Loci in Pre-Eclampsia***
Inês Chaves, Erasmus MC Rotterdam

11:30 **SS93 •** ***Ultradian Rhythms of Locomotor (In)Activity in a Real-World Sample of 120,000 Hours of Human Sleep***
Eva Winnebeck, Ludwig Maximilian University, Munich

11:45 **SS94 •** ***The Effect of Chronotype and Time of Year on School Attendance and Performance***
Giulia Zerbini, University of Groningen

12:00 **SS95 •** ***Sleep Hygiene and Academic Performance in College Undergraduates***
Gideon Dunster, University of Washington

12:15 **SS96 •** ***Long Weekly Work Hours Increase the Risk of Adverse Health and Safety Outcomes in First-Year and More Experienced Resident Physicians***
*Celine Vetter, Brigham and Women's Hospital and Harvard Medical School

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12:45 pm – 1:45 pm **Lunchtime Table Discussions** | *Edinburgh Ballroom West*

Melatonin: An Important Player too Often Overlooked in our B6 Mouse-Centric Research World?
Hosts: Vincent Cassone, Takashi Yoshimura

Human Chronotyping: How to Do It? Is It Relevant in Diseased Individuals as Well?
Hosts: Till Roenneberg, Martin Ralph

The Future for Chronobiology Research Funding
Host: Corinne Silva (NIDDK/NIH)

1:15 pm – 2:15 pm **Actigraphy Workshop**|*Stirling Salon DEF*
Organized by Condor Instruments
Chair: Till Roenneberg, Ludwig MaxMillian University

2:30 pm – 3:30 pm **General Meeting of SRBR Members** | *Stirling Ballroom*

3:30 pm – 4:30 pm **Workshop III** | ***Are Circadian Clocks Therapeutic Targets?*** | *Stirling Ballroom*
Chair: Thomas Burris, Saint Louis University School of Medicine

Panelists: Diane B. Boivin, Douglas Mental Health University Institute, McGill University
Zheng (Jake) Chen, UT Health Science Center at Houston
Steve Kay, The Scripps Research Institute
Colleen McClung, University of Pittsburgh
Travis Wager, Pfizer

4:30 pm – 6:00 pm **Pittendrigh/Aschoff Lecture** | ***The Time of Our (Cyanobacterial) Lives: elucidating the Kai oscillator*** | *Stirling Ballroom*
Susan Golden, University of California, San Diego

6:15 pm – 7:30 pm **Cocktail Reception** (Cash Bar) | *Inverness Ballroom Foyer*

7:30 pm **Closing Banquet and Awards Ceremony** | *Inverness Ballroom*

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Poster Titles

Sunday, May 22

S1 **Constant Light Promotes Tumor Development via Insulin Resistance and Altered Inflammatory Response** • Natalí N Guerrero-Vargas, Facultad de Medicina, Universidad Nacional Autónoma de México

S2 **Circadian Rhythm of Proteins in Breast Cancer Tissue Cultured Cells** • Sean-Patrick Scott, Tecnologico de Monterrey

S3 **Disruption of the Cardiomyocyte Circadian Clock Influences Myocardial Insulin Signaling** • Graham McGinnis, The University of Alabama at Birmingham

S4 #**Environmental Circadian Disruption Increases Ischemic Brain Damage** • Anne Ramsey, Morehouse School of Medicine

S5 **Developmental Regulation of the Narrow Abdomen Ion Channel in the *Drosophila* Circadian Pacemaker.** • Bridget Lear, University of Iowa

S6 ***CRTC Potentiates Light-Independent Timeless Transcription to Sustain Circadian Rhythms in *Drosophila*** • MinkYung Kim, KAIST

S7 ***Neuropeptide-F and Acetylcholine Mediate Photic Phase Resetting of *Drosophila* Circadian Behavior** • Pallavi Lamba, University of Massachusetts Medical School

S8 **Grooming Behavior of *Drosophila* is Under Circadian Regulation** • Bing Qiao, University of Miami

S9 **Igf-li mRNA-Binding Protein Regulates Night Sleep in *Drosophila*** • Xueyan Pang, University of Nevada

S10 **Light-Induced Plasticity of *Drosophila* Clock Function** • Charles Hurdle, University of Southampton

S11 **Abnormal PDF Expression Leads to Arrhythmicity in Vrille Mutants** • Kushan Gunawardhana, Texas A&M University

S12 **Nucleotide Variation in *Drosophila* Cryptochrome Linked to Circadian Clock Function: An Association Analysis.** • Mirko Pegoraro, University of Leicester

S13 **Identification and characterization of Genes Controlling Development of PDF-Positive Clock Neurons in the Fruit Fly *Drosophila melanogaster*** • Outa Uryu, Faculty of Life and Environmental Sciences, University of Tsukuba

S14 ****Photoperiod Interacts With Running Wheel Availability to Modulate Circadian Food Anticipatory Activity in Mice** • Mateusz Michalik, Simon Fraser University

S15 ***Temporal Restricted Feeding Induces Time-Dependent Behavioral Changes in Mice** • Victoria Acosta-Rodríguez, UTSW Medical Center Dallas

S16 ****Neural Correlates of Food Anticipatory Activity in Mice Subjected to Once or Twice-Daily Feeding Periods** • Ashutosh Rastogi, Kent State University

S17 ****Time of Feeding Regulates Circadian Gene Expression in Mouse Peripheral Tissues** • Laura van Rosmalen, UT Southwestern Medical Center

S18 **Phase Shifts in Circadian Peripheral Clocks Caused by Exercise Are Dependent on the Feeding Schedule in PER2::LUC Mice** • Shigenobu Shibata, Waseda University

S19 **Levofloxacin-Induced QT Prolongation Depends on the Time of Drug Administration** • Laura Kervezee, Leiden University Medical Center

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S20 **Automatic Scoring of Heart Rate and Wrist Movements to Assess Sleep Architecture** • Antoine Viola, PPRS-Research

S21 *__Circadian Misalignment and Risk-Taking in Night Shift Workers__ • Philip Cheng, Henry Ford Health System

S22 **Evaluation of Biomathematical Models in Predicting Cognitive Impairment Among Short-Haul Airline Pilots** • Siera Martinez, San Jose State University Research Foundation

S23 **Resetting of Human Peripheral Clocks by Phototherapy During Simulated Night Shift Work** • Marc Cuesta, Douglas Mental Health University Institute, McGill University

S24 **Chrono-Typing and Political Orientation: Evidence of Left-Leaning Owls and Right- Leaning Larks** • Christian Cajochen, Centre for Chronobiology, Psychiatric Hospital of the University of Basel

S25 **Gestational Day Length and Risk of Depression in Adulthood in Women** • Elizabeth Devore, Brigham & Women's Hospital

S26 #__Association of Allostatic Load and Shift Work Among Us Adults__ • Nicole Bowles, The Rockefeller University

S27 **EPd, a Clock Controlled Gene, Mediates Rhythmic Immune Response in *Drosophila*** • Jiajia Li, University of Missouri-St. Louis

S28 **Chronotoxicity of Everolimus on the Immune System** • Dilek Ozturk, Bezmialem Vakif University

S29 **Time of Day-Dependent Sensitivity to LPS: A Sensory Role for the Autonomic Nervous System** • Eva Soto-Tinoco, Universidad Nacional Autónoma de México

S30 *__The Relationship Between Light Exposure and Subsequent Sleep: What Happens Outside of the Lab?__ • Emma Wams, University of Groningen, NL

S31 **Constant Light During Lactation Programs Circadian and Metabolic Functions in Rat Pups** • Madahi Palma Gomez, UNAM

S32 **A New Standardized Method to Assess the Endogenous and Light–Response of the Retinal Clock in Mammals** • Hugo Calligaro, INSERM U1208

S33 **Pineal Serotonin Modulates Entrainment of Central Circadian Clock by Light** • Keisuke Ikegami, Kindai University Faculty of Medicine

S34 *__Cryptochrome is a Direct Neuronal Ultraviolet Light Sensor__ • Lisa Soyeon Baik, University of California- Irvine

S35 **Can a Poor Sleep/Wake Cycle Contribute to Hippocampal Malfunction in a Mouse Model of Neurodevelopmental Disabilities?** • Cristina Ghiani, David Geffen School of Medicine at UCLA

S36 **COMT Allelic Variation and Sleep Organization in Human Neonatal Opioid Withdrawal** • Marie Hayes, University of Maine

S37 **Diurnal Regulation of Cocaine Self-Administration** • Ian Webb, University of Mississippi Medical Center

S38 *#__Aging Decreases Circadian Regulation of Alcohol Sensitivity and Increases Alcohol-Induced Tissue Injury and Mortality__ • Aliza De Nobrega, Florida State University

S39 **Rev-Erbα Deficiency is Associated With Mixed Affective Behaviors in Mice.** • Tsuyoshi Otsuka, Wakayama Medical University

S40 *__Evaluation of Circadian Rhythms and Sleep in the APP/PS1 Mouse Model of Alzheimer's Disease__ • Brianne Kent, University of British Columbia

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S41 **Individual Differences in the Rate of Re-Entrainment to a Phase Advance Predict Anxiety and Depression-Like Behavior** • Jeff Anyan, Concordia University

S42 **Global and Hepatocyte-Specific Ablation of BMAL1 Induces Hyperlipidemia and Enhances Atherosclerosis** • Xiaoyue Pan, SUNY Downstate Medical Center

S43 **Interdisciplinary Approaches for Identification of Circadian-Controlled Glycogen Metabolism in Neurospora Crassa** • Lily(Mokryun) Baek, College of Medicine, University of Cincinnati

S44 **Effects of Wheel Running Exercise on Feeding Patterns and Glucose Tolerance in C57BL/6J Mice** • Eric McGann, Rider University

S45 **Mouse Strain Differences in Response to Glucose Tolerance Test.** • Bretton Nabit, Rider University

S46 **Dosing Time-Dependent Changes in Beneficial Effects of Sesamin on High Fat-Induced Hyperlipidemia in Rats** • Norifumi Tateishi, Suntory Wellness Limited

S47 **Circadian Control of Oscillations in Mitochondrial Rate-Limiting Enzymes and Nutrient Utilization by PERIOD Proteins** • Gad Asher, Weizmann Institute of Science, Israel

S48 **Characterizing DNA Binding Activities of Mammalian Circadian Clock Protein Complexes** • Alfred Tamayo, Harvard Medical School

S49 **Prolyl Isomerases-Flipping the Circadian Switch** • Hande Asimgil, UC Santa Cruz

S50 **HITS-CLIP Reveals a Role for the RNA-Binding Protein FBP3 in the Circadian Clock** • Peng Gao, UT Southwestern Medical Center

S51 #**Regulation of Reverbα by the Spsb1-4 E3 Ligase Family** • Tsedey Mekbib, Morehouse School of Medicine

S52 **Circadian Clock Regulation of Translation Initiation Through eIF2α Phosphorylation** • Shanta Karki, Texas A&M University

S53 **Applications of Machine Learning in the Processing and Analysis of Large Circadian Proteomics Time-Series Datasets** • Alexander Crowell, Dartmouth College

S54 **Roles for Period Binding Domain of dCLOCK in *Drosophila* Circadian Clock** • Euna Lee, Ajou University

S55 **Important Roles of the RNA Editing Enzyme in the Mammalian Circadian Clockwork** • Hikari Yoshitane, The University of Tokyo

S56 **A Slow Conformational Switch in the BMAL1 Transactivation Domain Modulates Circadian Cycling** • Chelsea Gustafson, University of California, Santa Cruz

S57 **Changes in Titin Isoform Composition Following Inducible Knockout of BMAL1 in Skeletal Muscle** • Lance Riley, University of Florida

S58 ***Gravitational Loading at the Beginning of the Active Phase Attenuates Muscle Loss in Unloaded Mouse Hind Limb** • Shinya Aoyama, Waseda University

S59 **Diurnal Variation in G-Protein-Coupled Inwardly Rectifying Potassium (GIRK) Channels in Hippocampus** • Venkata Tekumalla, UAB

S60 **Circadian Transcription Factor NPAS2 and Metabolic Redox Sensor SIRT1 Interact in the Mouse Striatum to Regulate Reward-Related Behavior** • Darius Becker-Krail, University of Pittsburgh

S61 **Alterations of the Circadian System with Chronic Administration of the Serotonin (1A) Mixed Agonist/Antagonist BMY7378** • Jhenkruthi Vijaya Shankara, University of Calgary

S62 **Chronic Sleep Deprivation Inhibits Short and Long Term Memory in Aplysia** • Harini Krishnan, Florida State University

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S63 **Daily and Annual Rhythms of Activity in the Alpine Chamois under Natural Conditions** • Cristiano Bertolucci, University of Ferrara

S64 **Clock-Modulation of Virulence in the Phytopathogenic Fungus *Botrytis cinerea* and the Evolution of Clock Negative Elements in Fungi** • Luis Larrondo, Pontifica Universidad Catolica De Chile

S65 **A Fear-Entrained Oscillator in the Mouse** • Horacio de la Iglesia, University of Washington

S66 #**Histone Demethylase JARID1a Regulates Hepatic Glucose Metabolism and Enables Rapid Transcriptional Response to Food Intake** • Kacee DiTacchio, University of Kansas Medical Center

S67 **Circadian Rhythms in the Sea Anemone *Nematostella vectensis*** • Rebecca Helm, Woods Hole Oceanographic Institution

S68 **The New Main Factor Influence on a Circannual Rhythm** • Dmitrii Borisov, Nizhniy Novgorod State Agricultural Academy, Russia

S69 **Red and Green Luciferases Reveal Phase-Dependent Protein Productivity During Metabolic Rhythms of Yeast** • James Robertson, Middle Tennessee State University

S70 **Is the Zugunruhe Oscillator Related to MASCO?** • Paul Bartell, Pennsylvania State University

S71 ***Tissue Specific Response of Clock Genes Expression in Peripheral Oscillators in a Rat Model of Shift-Work** • Cinthya Córdoba-Manilla, Universidad Nacional Autónoma de México

S72 **Cryptochromes Suppress Ppard and Limit Exercise Endurance** • Megan Vaughan, The Scripps Research Institute

S73 **The Arcuate Nucleus: Site for Time-Of-Day-Dependent Negative Feedback on Corticosterone Secretion** • Luis Abel León-Mercado, Universidad Nacional Autónoma de México

S74 **Circadian Clock Regulation of the Melatonin MTNR1B Receptor in Human Myometrial Cells** • James Olcese, Florida State University College of Medicine

S75 **Lack of Exercise Leads to Altered Activity Patterns in Wild-Type and Vip-Deficient Mice During Light-Dark Cycles** • Kun Hu, Brigham & Women's Hospital/Harvard Medical School

S76 **Differences in Circadian Light Response of Nasonia Wasps from Different Latitudes** • Theresa Floessner, University of Groningen

S77 **Same-Phase Circadian Rhythms of Trimethylated Lysine 4 on Histone 3 at Promoters of Diversely-Expressed Genes in the Green Alga *Chlamydomonas*** • Sigrid Jacobshagen, Western Kentucky University

S78 **Insulin Resets the Circadian Clock via Induction of Clock Gene PER2** • Priya Crosby, MRC Laboratory of Molecular Biology

S79 **Coupled Oscillators, Synchronization and (Photoperiodic) Entrainment of Circadian Clocks** • Christoph Schmal, ITB, Charité Berlin

S80 **How Can You Tell Your Signal Is Rhythmic?** • Andrey Lazopulo, University of Miami

S81 **Circadian Rhythms in Wound Healing in Female Siberian Hamsters** • Erin Cable, University of Chicago

S82 **Dosing-Time Dependent Reproductive Toxicity of Everolimus in Male Mice** • Narin Ozturk, Istanbul University

S83 *#**Endothelin-1 Regulates the Diurnal Variation of Sodium Excretion in Male and Female Rats** • Jermaine Johnston, The University of Alabama at Birmingham

S84 ***Back to the Basics: A Simplified Model of Mammalian Circadian Rhythms** • Kevin Hannay, University of Michigan

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S85 **Don't Luc Now: How Firefly Luciferase Behaves in Mammalian Cells** • John O'Neill, MRC Laboratory of Molecular Biology

S86 **The Adrenal Clock Limits Disruption of Circadian Glucocorticoid Rhythms by Aberrant Light Exposure.** • William Engeland, University of Minnesota

S87 **Chronopharmacology of Everolimus by Ubiquitin Pathway in Mouse Renal Cell Carcinoma** • Shigehiro Ohdo, Kyushu University

S88 **Effects of the Duper Mutation on Phase Shifts and Estrous Cycles.** • Eric Bittman, University of Massachusetts at Amherst

S89 **Aryl Hydrocarbon Receptor Deficiency Alters Circadian and Metabolic Rhythmicity** • Shelley Tischkau, Southern Illinois University

S90 **PRD-1, a Component of the Circadian System of Neurospora Crassa, is a Member of the Dead-Box RNA Helicase Family** • Di Wu, York University

S91 ***The effect of BMAL1 Deletion in Gonadotropin-Releasing Hormone or Kisspeptin Neurons** • Karen Tonsfeldt, University of California San Diego

S92 **A Mathematical Model of the Liver Circadian Clock Linking Feeding/Fasting Cycles to Clock Function** • Marc Lefranc, University of Lille

S93 ***The Transcriptional Landscape Associated With Photoperiodism** • Laura Flavell, University of Leicester

S94 **Beyond Body Weight: How Impaired Leptin Signaling Can Affect Sleep Disordered Breathing** • Deanna Arble, University of Michigan

S95 ***Crosstalk Signaling Between Circadian Clock Components and Iron Metabolism** • Samuel Schiffhauer, Virginia Tech University

S96 **Extensive Regulation of Diurnal Transcription and Metabolism by Glucocorticoids** • Meltem Weger, University of Birmingham

S97 **Daily Magnesium Fluxes Regulate Cellular Timekeeping and Energy Expenditure** • Gerben van Ooijen, University of Edinburgh

S98 ***ZeitZeiger: Supervised Learning for Oscillatory Data** • Jacob Hughey, University of California, San Francisco

S99 **Characterizing Core Clock Gene Dynamics in Mouse and Human Peripheral Blood Using Simulated Shift Work Protocols** • Shobhan Gaddameedhi, Washington State University

S100 **Examining the Contributions of the BrLKP2 Gene Family to the Circadian Clock in *Brassica rapa*** • Jin A. Kim, National Academy of Agricultural Science(NAAS)

S101 **Exposure to Long Photoperiods Induces Changes in Coupling Between Single Neurons of the Mouse Suprachiasmatic Nucleus** • Renate Buijink, Leiden University Medical Centre

S102 **A Role for the Cationic Leak Channel NALCN in Daily Rhythms of Suprachiasmatic Nuclei Activity and Locomotor Behavior** • Matt Flourakis, Northwestern University

S103 **Circadian Rhythms in the Expression and Function of Synaptic and Extrasynaptic GABAA Receptors in the Suprachiasmatic Nucleus.** • James Walton, Georgia State University

S104 **Clock Gene Expression in the SCN of Arctic Ground Squirrels** • Lily Yan, Michigan State University

S105 **AVP Signaling Reprograms SCN Organization** • Kayla Rohr, Marquette University

S106 ***Circadian Regulation in and by SCN Astrocytes** • Chak Foon Tso, Washington University in St. Louis

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S107 **Spatial Segregation of PER1 and PER2 Expression in the Mouse SCN** • Malini Riddle, Barnard College

S108 **Role of grk2 in Circadian Behavior and Molecular Rhythms** • Lucia Mendoza-Viveros, University of Toronto Mississauga

S109 **Examination of the Suprachiasmatic Nucleus Expression in Forebrain BMAL1 Knockout Mice** • Mariko Izumo, UT Southwestern Medical Center

S110 **Dim Light at Night Disturbs the Daily Sleep-Wake Cycle and Sleep Architecture in Rats** • Andries Kalsbeek, Netherlands Institute for Neuroscience

S111 **Deficits in Temporal Processing in a Mouse Model of Autism** • Diego Golombek, Universidad Nacional de Quilmes

S112 **Nitrergic Neural Communication for the Synchronization of the Mammalian Circadian Clock: A Putative Redox-Regulation** • Diego Golombek, Universidad Nacional de Quilmes

S113 **Chronic Sleep Restriction Increases the Change in Systolic Blood Pressure Between Circadian Night and Day** • Andrew McHill, Harvard Medical School/Brigham and Women's Hospital

Monday, May 23

M1 **Correlation of Between Circadian Rest Activity Rhythm and Nucleic Acid Turnover in Patients With Metastatic Colorectal Cancer** • Sandrine Dulong, INSERM

M2 ***The MYC Oncogene Disrupts Circadian Rhythm and Metabolism in Cancer Through Modulation of REV-ERB and BMAL1** • Brian Altman, University of Pennsylvania Perelman School of Medicine

M3 **Active-Phase Restricted Feeding Restores the Blood Pressure Circadian Rhythm in Type 2 Diabetic db/db Mice** • Tianfei Hou, University of Kentucky

M4 ***Clock Genes Regulate Circadian Gating of Parturition and Gestation Length** • Carmel Martin-Fairey, Washington University

M5 **Magnetic Field Effects in *Drosophila melanogaster*** • Giorgio Fedele, University of Leicester

M6 ***Integration of Light Intensity Information Into the Clock Neuron Network of *Drosophila melanogaster*** • Matthias Schlichting, Brandeis University

M7 **An RNAi Screen for RNA Binding Proteins Controlling *Drosophila* Circadian Behavior** • Lauren Foley, UMass Medical School

M8 ***Genome-Wide Characterization of the Molecular Response of the Circadian Clockwork to Temperature in *Drosophila*** • Naveh Evantal, Hebrew University of Jerusalem

M9 **Light Induced Bursts in *Drosophila* Locomotion** • Stanislav Lazopulo, University of Miami

M10 ***Circadian Translational Profiling of the *Drosophila* Head Fat Body Reveals Potential Novel Roles for a Peripheral Oscillator** • Amy Yu, Tufts Medical School

M11 ***Diapause in *Drosophila melanogaster*** • Ane Martin Anduaga, University of Leicester

M12 ****Cold-Induced Period Transcription Links Environmental Temperature to the *Drosophila* Molecular Clock** • Akanksha Bafna, University of Southampton

M13 **#The Dopamine Transporter is Not Required for Entraining Circadian Rhythms to Scheduled Feeding** • Jennifer Enriquez, California State Polytechnic University, Pomona

M14 **Mapping Dopaminergic-D1R Circuitry That Mediate Circadian Entrainment to Feeding** • Andrew Steele, California State Polytechnic University, Pomona

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M15 **Time-Restricted Feeding of a High-Fat Diet Attenuates Its Deleterious Effects on Middle-Aged Mice** • Marilyn Duncan, University of Kentucky Medical School

M16 **Role of Gonadal Hormones in Food Anticipatory Activity in Response to Timed Restricted Feeding** • Jessica Krizo, Kent State University

M17 #**Decreased Food Anticipatory Activity of Obese (Neotomodon Alstoni) Mice Relates to Changes in Hypothalamic Fos Expression** • César Luna Illades, UNAM

M18 **Time Perception Relates to Cognitive Performance, Anxiety and Subjective Reports of Well-Being** • Natalia Bobko, Institute for Occupational Health, Kyiv, Ukraine

M19 **Objectively Measured Late-Morning Physical Activity Predicts Mortality in the NHANES 2003-2006 Cohorts** • Vadim Zipunnikov, Johns Hopkins Bloomberg School of Public Health

M20 **MEQ Predicts Optimal Performance Time in Addition to Morning-Evening Preference** • Martin Ralph, University of Toronto

M21 **Trends in Self-Reported Hourly Lighting and Sleep in a Global Dataset of Travelers** • Olivia Walch, University of Michigan

M22 *__Circadian Profiles of Light, Activity, and Body Temperature for Non-Invasive Physiology Prediction in Humans__ • Benjamin Smarr, University of California, Berkeley

M23 **Molecular Basis for Chronotype and Time-Of-Day Effects on Decision-Making** • Krista Ingram, Colgate University

M24 **A Prospective Study of Rotating Night Shift Work and Incident Depression in the Nurses' Health Study 2** • Celine Vetter, Brigham and Women's Hospital and Harvard Medical School

M25 **Clock Regulation of Circadian Rhythms in the Human Neocortex** • Miles Fontenot, University of Texas Southwestern

M26 **TNF-Alpha and Ccl2 Mediate the Immune-Circadian Interaction in Inflammation and Cancer Animal Models** • Diego Golombek, Universidad Nacional de Quilmes

M27 **Circadian Rhythmicity in Bone Marrow-Derived Macrophages** • Shan Chen, Dartmouth College

M28 **Identifying CK1e/d Activity as a Potential Link Between Circadian Rhythm Disruption and CXCL-1 Mediated Neuroinflammation** • Jonathan Shelton, Janssen Pharmaceutical R&D

M29 **How Outer Retinal Photoreception and Melanopsin Phototransdcution Control Non-Image Forming Visual Functions** • Samer Hattar, Johns Hopkins University

M30 **Characterization of Non-Visual Responses to Light Using Spectral, Temporal and Spatial Properties of Rods/Cones and ipRGCs in Humans** • Abhishek Prayag, INSERM U1208

M31 **Red Light at Night Does Not Suppress Melatonin in the Horse** • Barbara Murphy, University College Dublin

M32 **Photoreceptor Weighted Light Intensities and Their Dose-Response Relationships for Non-Visual Effects of Light** • Luc Schlangen, Philips Lighting Research

M33 **Chronotype Differences in the Distribution of Excitatory and Inhibitory Cell Populations in ipRGC Target Areas** • Jennifer Langel, Johns Hopkins University

M34 **The Multifunctional Nature of Cryptochromes in the Mammalian Retina** • Nicola Smyllie, MRC Laboratory of Molecular Biology

M35 **Blue Light Therapy Improves Circadian Dysfunction in Two Mouse Models of Huntington's Disease** • Huei-Bin Wang, UCLA

M36 **Time-of-Day Disruption of GSK3β Phosphorylation and Cognitive Impairment in the Tg-SWDI Mouse Model of Alzheimer's Disease** • Jennifer Davis, The University of Alabama at Birmingham

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M37 ***The Effects of Circadian Misalignment During Adolescence on Mood and Alcohol Sensitivity** • Chelsea Vadnie, University of Pittsburgh

M38 **Treating Circadian Dysfunction Delays Disease Progression in Mouse Models of Huntington's Disease** • Dawn Loh, University of California Los Angeles

M39 **Constant Darkness and Constant Light Suppress Voluntary Alcohol Intake in Mice** • Alan Rosenwasser, University of Maine

M40 **Clock-HIF Interaction Establishes Rhythmic Skeletal Muscle Exercise Tolerance and the Hypoxic Response** • Clara Peek, Northwestern University

M41 **Disruption of Daily Rhythms by High-Fat Diet is Reversible** • Julie Pendergast, University of Kentucky

M42 **Short-Term Effect of Nocturnal Transportation Noise on Glucose Metabolism** • Laurie Thiesse, Centre for Chronobiology of Basel

M43 **The Liver Circadian Clock Modulates Blood Glucose Lowering Efficacy of Metformin** • Katja Lamia, The Scripps Research Institute

M44 **Effects of Photoperiod on Locomotor Activity and Glucose Regulation in C57BL/6J Male Mice** • Kevin Munoz, Rider University

M45 **Glucose Tolerance in Nocturnal Animals Experiencing Light-Dark Stimulus Patterns Mirroring Patterns Measured from Dayshift and Rotating Shift Workers** • Mariana Figueiro, Lighting Research Center, Rensselaer Polytechnic Institute

M46 ***Circadian Regulation of Xenobiotic Metabolism** • Anna Kriebs, The Scripps Research Institute

M47 ***24 H Metabolic Profiling in Obesity and Type 2 Diabetes (T2DM)** • Cheryl Isherwood, University of Surrey

M48 **Composition and Structure of Cytoplasmic PERIOD Complexes in Relation to the Nuclear PERIOD Complex** • Pieter Bas Kwak, Harvard Medical School

M49 **Determination of poly(A)-Tail Lengths and 3'-End Modifications of mRNAS by Tail-Seq in Circadian Systems** • Hua Jin, HHMI at Brandeis University

M50 ***4C-Seq in Mouse Liver Reveals Clock-Dependent Rhythmic Chromatin Contacts** • Jérôme Mermet, EPFL SV IBI UPNAE

M51 ***Molecular Description of the Poised CRY:CLOCK:BMAL1 Repressive Complex** • Alicia Michael, University of California, Santa Cruz

M52 **Regulation of the Mammalian Circadian Clock Transcriptional Output by CLOCK:BMAL1** • Alexandra Trott, Texas A&M University

M53 ***CRY Acts as a Cofactor for the SCF-FBXL3 Mediated Degradation of Novel Substrates** • Stephanie Papp, The Scripps Research Institute

M54 **Epigenetic Regulation of the *Drosophila* Circadian Clock Involves the Interaction of a SWI/SNF Chromatin-Remodeler with Histone Deacetylases to Repress Transcription** • Rosanna Kwok, University of California, Davis

M55 **CLOCKWORK ORANGE Enhances PER Mediated Circadian Transcriptional Repression by Competing with CLK-CYC for E-Box Binding** • Jian Zhou, Texas A&M University

M56 **CRY Drives Cyclic CK2-Mediated BMAL1 Phosphorylation to Control the Mammalian Circadian Clock** • Teruya Tamaru, Toho University School of Medicine

M57 **Selective Knockout of BMAL1 in Skeletal Muscle and Not the Brain Regulates Circadian Rhythms of Wheel Running and Sleep** • Allison Brager, Morehouse School of Medicine

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

M58 **Simulated Light Therapy Enhances Recognition Memory and Alters Daily Rhythms in Hippocampal Gene Expression** • Jennifer Evans, Marquette University

M59 **Integrated Multimodal Analysis of Cell- And Circuit-Specific Processes in Circadian Hippocampal Functions** • James Chu, University of Illinois Urbana Champaign

M60 **The Circadian Transcription Factor CLOCK Represses the Expression of the Dopamine Rate-Limiting Enzyme Tyrosine Hydroxylase via Recruitment of the Metabolic Sensor SIRT1** • Gabrielle Pittman, University of Pittsburgh

M61 ***'Per1::Venus Arcuate Neurons Exhibit Robust Rhythms in Excitability'** • Adam Watson, University of Manchester

M62 **Local Adaptation by Losing Circadian Control of Asexual Development in *Neurospora discreta*** • Kwangwon Lee Lee, Rutgers University - Camden

M63 **Regressive Evolution in the Somalian Cavefish *Phreatichthys andruzzii:* Loss of Selective Constraint on Circadian Opsin Genes** • Cristiano Bertolucci, University of Ferrara

M64 **Investigating Neural Correlates of Rhythm Deterioration in Seasonal Adaptive Behavior in Aging Mice** • Anneke Olde Engberink, Leiden University Medical Center

M65 **Does the Id2 Null Mouse Have a Disturbed Circadian Profile in Core Body Temperature?** • Peng Zhou, Harvard Medical School

M66 **Functional Segmentation of the Clock by Lim-Type** • Liu Zhihua, Harvard Medical School

M67 **Evaluation of Novel Methods to Non-Invasively Monitor Core Body Temperature Rhythms in the Horse** • Margaret Nolan, Equilume Ltd

M68 **Meta-Analysis of Transcriptomic Datasets Identifies Genes Enriched in the Circadian Pacemaker** • Laurence Brown, University of Oxford

M69 **Real-Time Ticking of a Biological Clock Assembled in a Test Tube** • Joel Heisler, UC Merced

M70 **Hyper-Flexible and Light-Driven Rest/Activity Rhythms Under Non-24h Conditions** • Thijs Johannes Walbeek, University of California San Diego

M71 **The Evolution of Neural Circuitry Regulating Sleep and Arousal in the Blind Mexican Cavefish** • Bethany Stahl, Florida Atlantic University

M72 ***Regulation of Mitochondrial Dynamics by the Circadian Deadenylase Nocturnin** • Yasemin Onder, UT Southwestern Medical Center

M73 **Aging and the Gastrointestinal Clock: Influence of Melatonin on the Gut Microbiome** • Jiffin Paulose, University of Kentucky

M74 **Isolated Retina Müller Cells Exhibit Sustained Circadian Rhythms in Culture** • Nadia Mazzaro, Institute for Cellular and Integrative Neurosciences

M75 **Effects of Chronic Alcohol + Binge on Liver Rhythms and Bile Acid Metabolism in Mice** • Jessica Ferrell, Northeast Ohio Medical University

M76 **The Role of Melatonin in the Photoperiodic Control of Bird Song Distribution and Repertoire in the House Sparrow, Passer Domesticus** • Clifford Harpole, University of Kentucky

M77 **Urokinase Plasminogen Activator (uPA) Regulates Phase Resetting of the Mammalian Circadian Clock** • Joanna Cooper, University of Tennessee

M78 **Polymorphisms in the Human Clock Gene Period3 Are Associated With Diurnal Preference, Subjective Sleepiness and the Response to Morning Light** • Gabriella Mazzotta, Università di Padova

M79 **Binge Eating Behavior for Sucrose is Time-Of-Day Dependent: Effects on Reward Brian Areas** • Rodrigo Osnaya Ramirez, National Autonomous University of Mexico

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

M80 **Removing the Brakes on Photic Entrainment in the Circadian System** • Ryan Chan, University of Calgary

M81 **JmjC Domain Protein JMJD5: A Repressor of the Mammalian Circadian Clock and a Potential Mediator of Circadian Control of Energy Metabolism.** • Anand Saran, University of Kansas Medical Center

M82 **Beyond *Drosophila*: Analysis of Cycling Genes in the Jewel Wasp *Nasonia,* An Emerging Model Organism** • Nathaniel Davies, University of Leicester

M83 **Zebrafish Liver Diurnal Gene Expression and Comparative Transcriptomics** • Ghislain Breton, University of Texas Health Science Center

M84 **An Assay to Characterize the Dampening Tendency of the Photo-Periodic Oscillator** • Koustubh Vaze, University of Wuerzburg

M85 **Quantitative Analysis of mRNA-Protein Flux in Circadian Rhythms by Ribosomal Profiling and Mass Spectrometry** • Arthur Millius, RIKEN Quantitative Biology Center

M86 **Long Term High-Fat Diet Consumption and Wheel-Running Access Produces Alterations in Circadian Locomotor Activity** • Joseph Seggio, Bridgewater State University

M87 **A Model-Based Analysis of Light-Induced Circadian Arrhythmia in the Siberian Hamster** • Andrew Phillips, Brigham and Women's Hospital / Harvard Medical School

M88 **CalfluxVTN, a New, Bright Bioluminescent Ca2+ Sensor That Can Be Coupled With Excitatory, Optogenetic Stimulation** • Derrick Cumberbatch, Vanderbilt University

M89 ***Exploring Physiological Changes Underlying Protection From Severe Sleep Restriction in Migrating Birds** • William Horton, Pennsylvania State University

M90 **Ultradian Feeding in Mice Not Only Affects the Peripheral Clock in the Liver, But Also the Master Clock in the Brain** • Satish Sen, University of Amsterdam and University of Strasbourg

M91 **Circadian Rhythms in Actin Dynamics and Wound Healing** • Ned Hoyle, MRC-Laboratory of Molecular Biology

M92 **Crystal Clear: Solving the Structures of Cyanobacterial KaiABC Subcomplexes** • Nicolette Goularte, UC Santa Cruz

M93 **Feedback Loops of the Mammalian Circadian Clock Constitute Repressilator** • Hanspeter Herzel, Institute for Theoretical Biology

M94 **Investigating the Role of Zinc in the Circadian System** • Mahtab Moshirpour, University of Calgary

M95 **Variability of Behavioral Chronotypes of 16 Mammalian Species Under Controlled Conditions** • Roberto Refinetti, Boise State University

M96 ***Circadian Clock Control by Polyamine Levels Through a Mechanism That Declines With Age** • Ziv Zwighaft, Weizmann Institute of Science

M97 **TTDP, a Primate-Specific Gene Exclusively Expressed in Testis Which Regulates the Circadian Rhythms** • Jinhu Guo, Sun Yat-sen University

M98 ***Diel Flight Activity Behavior of Wild Caught *Anopheles farauti* s.s. and *An. Hinesorum* Malaria Mosquitoes from Northern Queensland, Australia: Temporal Differences That Might Contribute to Speciation** • Gary George, University of Notre Dame

M99 **Open Board**

M100 **Natural Variation and Co-Expression Network Approaches to Assess the Contribution of the Circadian Clock to Plant Fitness** • Kathleen Greenham, Dartmouth College

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M101 **Chloride Cotransporter KCC2 Essential for GABAergic Hyperpolarization in the SCN** • Anneke Olde Engberink, Leiden University Medical Center

M102 **Does the Polarity of SCN GABAaR Signaling Regulate Phase Advances of the Behavioral Clock?** • John McNeill, Georgia State University

M103 **Phase it! Strength Isn't Everything, At Least in the Mammalian SCN** • Bharath Ananthasubramaniam, Charite Universitaetsmedizin Berlin

M104 **Stem-Like Cell Cultures of the Adult Mouse Suprachiasmatic Nucleus** • Michael Geusz, Bowling Green State University

M105 ***Vasopressin Mediates Clock-Driven Anticipatory Thirst** • Claire Gizowski, Research Institute of the McGill University Health Centre

M106 **Manipulating the Cellular Circadian Period of AVP Neurons Alters the Behavioral Circadian Period** • Michihiro Mieda, Kanazawa University

M107 **Rhythms in VIP Cell Output Within the Mouse Suprachiasmatic Nuclei** • Timothy Brown, University of Manchester

M108 **BK Channels Are Activated by Distinct Calcium Sources During Day and Night in SCN Neurons** • Andrea Meredith, University of Maryland School of Medicine

M109 **Sex Differences in Age-Related Sleep Changes in Mice** • Martha Vitaterna, Northwestern University

M110 **Identifying Neurons that Regulate Plasticity in Sleep Duration** • Seana Lymer, New York University

M111 **Open Board**

M112 **How Biological Clocks Yield Negative Entropy – A Novel Concept of Entrainment** • Manfred Goedel, Institute of Medical Psychology, University of Munich

Tuesday, May 24

T1 **The Circadian Clock Proteins BMAL1 and CLOCK Control G2/M Cell Cycle Transition** • Elham Farshadi, Erasmus University Medical Center, Rotterdam

T2 **Cardiovascular Dysfunction in a Mouse Model of Huntington's Disease** • Christopher Colwell, UCLA

T3 **Endogenous Circadian Rhythm in Vascular Function and Cardiovascular Risk** • Saurabh Thosar, Oregon Health and Science University

T4 **Determining the Ontogeny of Synchronization in the *Xenopus laevis* Embryo Using Gene Expression and Behavior** • Kristen Curran, University of Wisconsin Whitewater

T5 **MicroRNA-92a Acts as a Circadian Regulator of Neuronal Excitability in *Drosophila*** • Xiao Chen, Brandeis University

T6 ***Drosophila* DH31 Neuropeptide and PDF Receptor Control Night-Onset Temperature Preference** • Tadahiro Goda, Cincinnati Children's Hospital Medical Center

T7 **Ion Channels that Regulate Neuronal Physiology and Circadian Behavior in *Drosophila melanogaster*** • Nara Ines Muraro, Instituto de Investigación en Biomedicina de Buenos Aires (IBioBA)-CONICET-MPSP

T8 **Regulation of Chromatin Accessibility on CLOCK/CYCLE Direct Targets in *Drosophila*** • Katharine Abruzzi, Howard Hughes Medical Institute; Brandeis University

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T9 **Integration of Clock and Temperature Circuits Drives Pre-Dawn Temperature Preference in *Drosophila*** • Yujiro Umezaki, Cincinnati Children's Hospital Medical Center

T10 **The Expression of *period* and *timeless* in the Early Development of *Drosophila melanogaster*** • Jia Zhao, The University of Auckland

T11 **A *Drosophila apterous mutation* Uncouples Locomotor Activity From Circadian Clock Control** • Bernard Possidente, Skidmore College

T12 **How Does Electrical Activity Regulate Circadian Gene Expression in *Drosophila* Pacemaker Neurons?** • Zhonghua Zhu, New York University

T13 **Ovarian Hormones Prevent Disruption of Daily Rhythms From High-Fat Feeding in Female Mice** • Julie Pendergast, University of Kentucky

T14 **Oscillations in Circadian Gene Expression in Liver and Brain in Response to Scheduled, Calorie Restricted Feeding** • Charles Zhang, California State Polytechnic University, Pomona

T15 #**A Piece of Chocolate in the Dark Phase Prevents Circadian Desyncrhony and Overweight in Male Shift-Worker Rats** • Mara Guzman-Ruiz, Universidad Nacional Autónoma de México

T16 **Relationship Between Timing of Food Intake and Insulin Sensitivity** • Vittobai Rashika Rangaraj, University of Chicago

T17 **Circadian and Feeding Rhythms Differentially Affect Rhythmic mRNA Transcription and Translation in Mouse Liver** • Cédric Gobet, NIHS/EPFL

T18 **Circadian Fluctuations in Hemodynamic of Surgeons Under 24-Hour Duties** • Natalia Bobko, Institute for Occupational Health, Kyiv, Ukraine

T19 **The Effect of Daytime Napping Under Bright Light Condition After Simulated Night Work on Biological Rhythm in Healthy Human** • Shunsuke Nagashima, Human Health Sciences, Graduate School of Medicine, Kyoto University

T20 **Insights Into the Human Chronobiome** • Carsten Skarke, University of Pennsylvania

T21 **Human Circadian Timing After Weekend Exposure to the Modern Versus Natural Light-Dark Cycle** • Ellen Stothard, University of Colorado Boulder

T22 ***Phase-Angle Differences Between Dim-Light Melatonin Onset and Sleep Onset in Patients Diagnosed With Delayed Sleep Phase Syndrome** • Catia Reis, CENC - Sleep Medicine Center, Lisbon

T23 **Glucocorticoid Signalling is Disrupted by Mistimed Sleep** • Simon Archer, University of Surrey

T24 **Identifying Circadian Transcripts in Human Subcutaneous Adipose Tissue** • Skevoulla Christou, University of Surrey

T25 **Sleep-Wake Rhythms and Safety: Using a Meta-Analytic Risk Index Model to Predict Occupational Injuries** • Dorothee Fischer, Harvard T.H. Chan School of Public Health, Boston, MA, USA

T26 **Inflamatory Markers During Night Work and Vacation** • Leana Araujo, Adventist University of Health Sciences

T27 **Photoperiod Influences Circadian Rhythms of Adaptive and Innate Immune Responses of Male Siberian Hamsters** • Kenneth Onishi, University of Chicago

T28 ***Circadian Control of CD8+ T Cell Response** • Chloé Nobis, Douglas Mental Health University Institute

T29 **Cyclically Expressed Heme Oxygenase Protects the Fruit Fly's Retina Against Light-Induced Damage** • Milena Damulewicz, Jagielllonian University

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

T30 **Beta Arrestins Shape Melanopsin-Dependent Responses to Light** • Ludovic Mure, The Salk Institute

T31 **Colour Processing in the Non-Image Forming Visual System** • Lauren Walmsley, The University of Manchester

T32 ***Differential Roles for Mammalian Cryptochromes in the Retinal Circadian Clock** • Jovi Wong, University of Oxford

T33 **Are Intrinsically Photosensitive Retinal Ganglion Cells (ipRGCS) Necessary for Light Entrainment of Peripheral Clocks?** • Paulo Kofuji, University of Minnesota

T34 **Circadian Forced Desynchrony Leads to Behavioral Manifestations of Depression in Rats** • Horacio de la Iglesia, University of Washington

T35 ***Circadian Clocks Modulate Huntington's Disease via Stress Response Pathways** • Fangke Xu, Northwestern University

T36 ***Selective Inhibition of Casein Kinase I Delta Enhances Hippocampal Dependent Learning and Alters Expression of Circadian Clock Proteins in the Hippocampus** • Heather Mahoney, University of South Florida

T37 **Behavioral and SCN Neurophysiological Disruption in the Tg-SwDI Mouse Model of Alzheimer's Disease** • Jodi Paul, The University of Alabama at Birmingham

T38 **Circadian Abnormalities in the BTBR Mouse Model of Autism Spectrum Disorder** • Michael Antle, University of Calgary

T39 **Alcohol Abuse in Circadian Desynchrony: Impact of Age, Genetics, and Environment** • Danielle Gulick, University of South Florida

T40 ***Transgenerational Epigenetic Effects of Cocaine on Circadian Behavior and Cocaine Reward** • Alexandra Yaw, Kent State University

T41 **Measuring Time in Adipocytes-The Effect of Insulin on Clock Gene Expression** • Neta Tuvia, Charite University Medical Center Berlin

T42 **Circadian Rhythms Disturbances, Depression and Type 2 Diabetes: Possible Interrelationships** • Carmel Bilu, Ben-Gurion University

T43 **Effects of a Forced Desynchrony Protocol on Feeding Patterns and Glucose Tolerance in C57BL/6J Mice** • Melissa Rasimowicz, Rider University

T44 **Oscillations in Bat Thermogenesis Are Independent of the Adipocyte Circadian Clock** • Georgios Paschos, University of Pennsylvania

T45 **Circadian Rhythms of Triglyceride Accumulation in NIH3T3-L1 Cells** • Satomi Morita, Meiji University

T46 **Nocturnal Light Exposure Acutely Disrupts Glucose Metabolism** • Anne-Loes Opperhuizen, Netherlands Institute for Neuroscience

T47 **Metabolic Defects in BMAL1 Ko Mice** • Céline Jouffe, IDO, Helmholtz Zentrum München

T48 **Characterization and Behavior of Multimeric Protein Complexes of the Mammalian Circadian Clock Across the Circadian Cycle** • Rajindra Aryal, Harvard Medical School

T49 **Identification of RE-VERB-α Degradation Mechanisms** • Ting-Chung Suen, Morehouse School of Medicine

T50 **CNOT1 Promotes Phosphorylation of Mammalian Clock Proteins via PKA** • Zhang Yunfeng, Soochow University

T51 **Cry2 Suppresses Transformation by Destabilizing c-Myc** • Anne-Laure Huber, The Scripps Research Institute

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T52 *__An Evolutionary Hotspot in CRYPTOCHROME's Structure Tunes the Period of the Mammalian Circadian Rhythm__ • Clark Rosensweig, UT Southwestern Medical Center

T53 *#__A Functional Synthetic Hybrid Circadian Oscillator Generated Through Transcriptional Rewiring__ • Alejandra Goity, PUC

T54 #__Re-Evaluating the Roles of Protein Kinase a (PKA) and Camp Signaling in Circadian Core-Clock Mechanisms__ • Consuelo Olivares-Yañez, PUC

T55 __Circadian Clock Regulation of mRNA Translation Through the Eukaryotic Elongation Factor eEF-2__ • Stephen Caster, Texas A&M University

T56 *__Novel Transcriptional Mechanisms of Muscle-Specific Clock Output__ • Brian Hodge, University of Florida

T57 __Circadian Rhythm of Muscle Mitochondrial Metabolism__ • Paul de Goede, Academic Medical Center Amsterdam (AMC)

T58 *__Circadian Rhythm of Redox State in Hippocampal CA1 Regulates Neuronal Membrane Excitability__ • Mia Yu, University of Illinois at Urbana-Champaign

T59 __Altered Circadian Phenotype in Cannabinoid Receptor 1 Knockout Mice__ • Kirsten Maricic, Kent State University

T60 __Circadian Effects of Conditional Serotonin Knockdown in the Midbrain Raphe Nuclear Complex of Adult Mice__ • Ashley Shemery, Kent State University

T61 __Transcriptomic Study of Circadian Rhythm in Astrocytes__ • Shao'ang Wen, Institute of Neuroscience

T62 __Entrainment Pathways of *C. elegans* Circadian Rhythms__ • Diego Golombek, Universidad Nacional de Quilmes

T63 __Daily Changes in Opsin mRNA Levels in the Antarctic Krill__ • Cristiano Bertolucci, University of Ferrara

T64 __Stress Alters Adrenal Clock Function in a Sexually Dimorphic Manner__ • Jennifer Evans, Marquette University

T65 *__A Dissociation Between Diurnal Cycles in Locomotor Activity, Feeding Behavior and Hepatic PERIOD2 Expression in Chronic Alcohol-Fed Mice__ • Peng Zhou, Harvard Medical School

T66 __KaiA Mutant on Oxidized Quinone Binding Site Overcomes Jet Lag Faster__ • Yong-Ick Kim, New Jersey Institute of Technology

T67 __Cohabiting Grass Rats Synchronize Their Activity Bouts on a Non-Circadian Scale__ • Alexandra Castillo-Ruiz, Georgia State University

T68 __The Circadian Clock Regulates Autophagy Directly Through Nuclear Hormone Receptor Rev-Erbα and Indirectly via C/EBPβ in Zebrafish__ • Han Wang, Soochow University

T69 __Time Restricted Foraging Activity and Clock Gene Expression in Honey Bees__ • Rikesh Jain, National Centre for Biological Sciences-Tata Institute of Fundamental Research, Bangalore, India

T70 __The Bioclock Studio: Undergraduate Students Connecting Circadian Biology and Sleep Research from Laboratories to Classrooms and the Public__ • Pagkapol Yhew Pongsawakul, University of California, San Diego

T71 __Effects of Constant Bright Light and Heavy Water on Interval Timing in Rats__ • Christian Petersen, Simon Fraser University

T72 __Per2 Expression Rhythms in Mice with Early Senescence and Bimodal Locomotor Rhythms__ • Mugdha Mokashi, The University of Alabama at Birmingham School of Medicine

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

T73 **Does Duper Alter Pacemaker Function or the Core Molecular Clock?** • Ajay Kumar, University of Massachusetts Amherst

T74 **Aging of the Circadian System in Short and Long Circadian Period Mutant Mice** • Malgorzata Oklejewicz, Erasmus MC

T75 ***Mice Are Able to Acquire Multiple Independent Time Memories** • Choden Shrestha, University of Toronto

T76 **RAS2 is a Regulator of the Circadian Clock in *Neurospora crassa*** • Krisztina Káldi, Semmelweis University

T77 ***Transcriptional Regulatory Logic of the Diurnal Cycle in the Mouse Liver** • Jonathan Sobel, EPFL SV IBI UPNAE

T78 ***Comparison of the Circadian Clock of Social and Solitary Bees** • Katharina Beer, University of Wuerzburg

T79 **Entrainment Maps: A New Tool for Understanding Properties of Circadian Oscillator Models** • Casey Diekman, New Jersey Institute of Technology

T80 **Genome-Wide Profiling of Diurnal Rhythmic Gene Expression in the Water Flea *Daphnia pulex*** • Giles Duffield, University of Notre Dame

T81 **Open Board**

T82 ***Using Signal Processing to Explore Diversity: Analyses of Locomotor Activity and Core Body Temperature Reveal Sex Differences in Mice** • Azure Grant, UC Berkeley

T83 ***TNF Signaling Regulates the Circadian Rhythm of Myogenic Responsiveness and Systemic Blood Pressure** • Jeff Kroetsch, University of Toronto Faculty of Medicine

T84 **Phase of Circadian Entrainment: A Simple Theory Behind Complex Data?** • Grigory Bordyugov, Charite Berlin

T85 **Using MRI to Observe Migratory Related Neurophysiological Changes** • Bruce Langford, Pennsylvania State University

T86 **Testing Novel Objective Parameters for Alertness** • Renske Lok, University of Groningen

T87 **BMAL1 Deletion in Adulthood Facilitates Adaptation to Disrupted Light/Dark Schedules in Mice** • Guangrui Yang, University of Pennsylvania

T88 **Translation Across Time and Space** • Violeta Castelo-Szekely, Center for Integrative Genomics - University of Lausanne

T89 **Mitochondrial Network Morphology Changes With a Circadian Rhythm in Cell Lines** • Sarah Lueck, Humboldt University Berlin

T90 **Circadian Rhythms in *Neurospora crassa* Are Regulated by a Component of a Conserved Nutrient-Sensing Pathway** • Lalanthi Ratnayake, York University

T91 **Differences in the Circadian Phenotype Among Substrains of Cba Mice** • Suzuka Itoh, Meiji University

T92 **Understanding Timekeeping in an Intertidal Crustacean *Eurydice pulchra*** • Lin Zhang, University of Leicester, UK

T93 ****Hepatic miRNA Loss Resulted in Altered Adaptation to Food Restriction in Mice** • Ngoc-Hien Du, Center for Integrative Genomics

T94 **Secreted Proteins Exhibit Diurnal Profiles in Human Plasma** • Benjamin Weger, Netlé Institute of Health Sciences

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

T95 **Circadian Control of Global Proteomic Output in *Neurospora crassa*** • Jennifer Hurley, Renssealer Polytechnic Institute

T96 **A Systems-Driven Experimental Approach Reveals the Complex Regulatory Distribution of p53 by Circadian Factors** • Tetsuya Gotoh, Virginia Tech

T97 ***Entrainment Ability of the Peripheral Circadian Clocks by Light, Food, Stress, and Exercise in Aged Mice** • Yu Tahara, Waseda university

T98 ***Sleep and Circadian Regulation of Metabolic Rate in *Drosophila*** • Melissa Slocumb, Florida Atlantic University

T99 **Amplitude Response of Circadian Clock System to External Stimuli** • Tao Zhang, Soochow University

T100 **Neuronal Activity Induced Changes of Energy Metabolites in the Mouse Suprachiasmatic Nucleus** • Renate Buijink, Leiden University Medical Centre

T101 **SCN Phosphoproteomic Analysis Reveals GRK2 as an Important Modulator of Neuronal Structure and Cytoskeleton Organization** • Cheng-Kang Chiang, Ottawa Institute of Systems Biology, University of Ottawa

T102 **Ontogeny of Circadian Synchrony in the Suprachiasmatic Nucleus** • Vania Carmona-Alcocer, Washington University in St. Louis

T103 ***Lhx1-Regulated Transcriptional Networks Control Sleep/Wake Coupling and Thermal Resistance of the SCN Clockworks** • Joseph Bedont, University of Pennsylvania

T104 **Isoflurane Anaesthesia Phase Shifts the SCN: Recordings From PER2::LUC Mice** • Nicola Ludin, The University of Auckland

T105 **CRTC1-SIK1 Pathway is Significant to Light Adaptation Capability** • Yu Liu, Soochow University

T106 **Cannabinoid Signaling Alters Clock Phase and GABAergic Neurotransmission Within the SCN** • Lauren Hablitz, Oregon Health and Science University

T107 **GRK2 Regulates Nucleocytoplasmic Distribution of PERIOD1/2 and Major Ligand-GPCR Systems in Circadian Timekeeping** • Arthur Cheng, University of Toronto

T108 **Gpr176 is an SCN-Specific Gz-Coupled Orphan GPCR That Controls Circadian Behavior** • Masao Doi, Graduate School of Pharmaceutical Sciences, Kyoto University

T109 **Circadian Arrhythmia Disrupts Theta Oscillations in the EEG** • Adrienne Thom, Stanford University

T110 ***Integrative Analysis of Multiple Genomics Datasets Reveals Key Networks and Pathways Underlying the Circadian and Homeostatic Regulation of Sleep** • Peng Jiang, Northwestern University

T111 **Open Board**

T112 **Recovery of Circadian Time-Place Learning in Rats with Hippocampal Lesions** • Ralph Mistlberger, Simon Fraser University

T113 **Sex Differences in Circadian Food Entrainment Are Unrelated to Gonadal Sex Hormones** • Antonio Aguayo, California State Polytechnic University, Pomona

* = Merit Award Winner ** = Excellence Award Winner # = Diversity Travel Award Winner

Index of Authors

Legend
SS = Slide Session
S = Sunday Poster
M = Monday Poster
T = Tuesday Poster
SP = Symposium
W = Workshop

Index of Keywords

Participants

(as of April 21, 2016)

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Notes

Innisbrook Resort Information

Travel:

- Innisbrook offers complimentary on property transportation. Please dial '0' to arrange a pickup.
- Innisbrook Resort guests benefit from car rental special rates provided by Enterprise Rent-A Car. To take advantage of the special rates, call 727-942-3155.
- Innisbrook offers courtesy transportation to and from nearby Honeymoon Island Beach and Caladesi Island ferry. Please dial '0' for the operator from any house phone to inquire about times and availability.

Resort Dining:

Innisbrook hosts six restaurants on property with a diverse range of cuisine. Hours of operation vary slightly throughout the year; please call to check availability.

- Turnberry Pub (Breakfast, Lunch)
- Market Salamander Grill (Breakfast, Lunch, Dinner)
- Packard's Steakhouse (Dinner, Evening Bar)
- Loch Ness Bar & Grill (Mid Day to Early Evening)
- Osprey Bar (Lunch, Dinner, Evening Bar)
- Room Service (Breakfast, Lunch, Dinner)

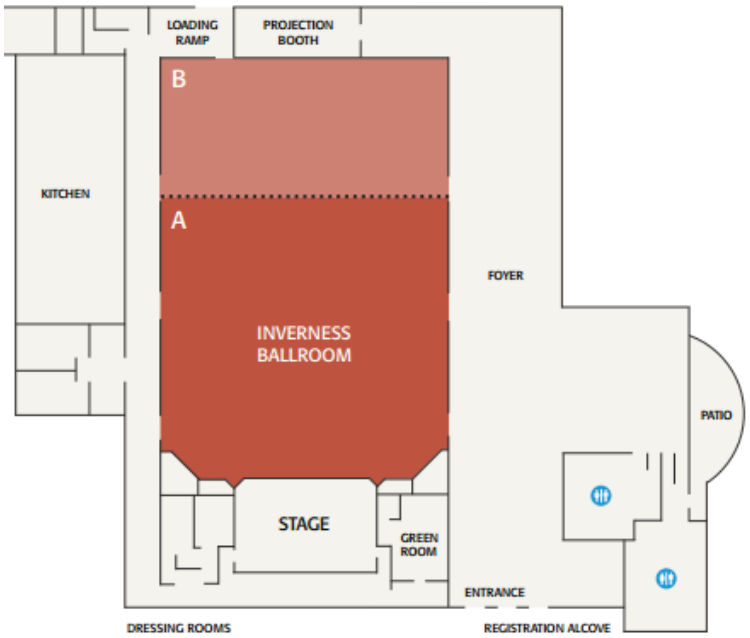
Resort Activities:

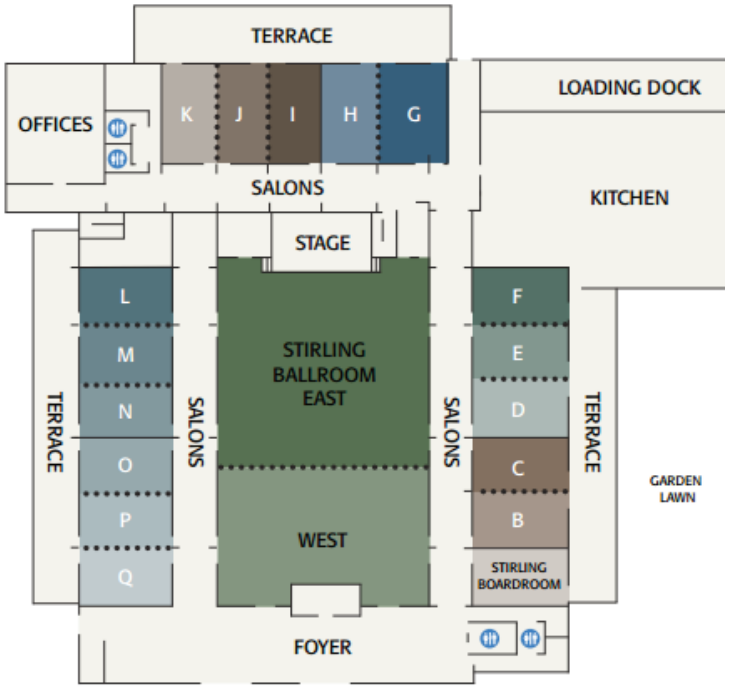
Please dial '0' from any house phone to inquire about availability and pricing.

- **Golf.** Innisbrook's four golf courses are considered some of the best in the world, including Copperhead Course, home to the PGA TOUR's Valspar Championship. Additional fees apply.
- **Retreat to Indaba Spa.** Innisbrook's new 18,000 square-foot spa, salon and fitness center. Reservations recommended.
- **Fitness Center.** The 4,800-square-foot facility features elliptical machines, exercise bikes, treadmills and free weight equipment and fitness classes. Access is complimentary for all guests.
- **Tennis.** Innisbrook's Tennis Center offers 11 Har-Tru® courts, with seven lighted for night play, a pro shop and 3 racquetball courts. Rental fees apply.
- **Water Activities.** The resort features six different pools and are temperature controlled. The Copperhead, Island and Loch Ness pools provide food and beverage service.
- **Resort's Natural Landscape.** 900 acres of undulating landscape, large expanses of open space and protected wetland areas. Take advantage of the nature trails and bike rental service.
- **Activities for Kids.**
  - Camp Nessie - offers a safe and enjoyable place for kids with great crafts, exciting games and lots of fun in the sun.
  - Camp Nessie Kids Night Out - Every Friday & Saturday night, 6pm - 10pm. $40 per child and includes dinner.
  - Enjoy other Family Activities including: basketball, volleyball, miniature golf, shuffle board, racquetball, bike rentals, fishing, nature trails and kid's camps.

Conference Center Floor Plans

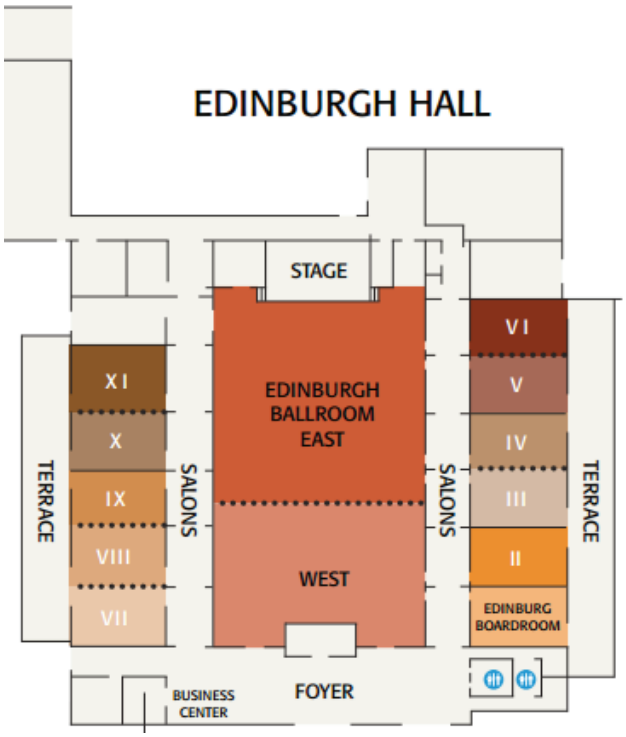
INVERNESS HALL

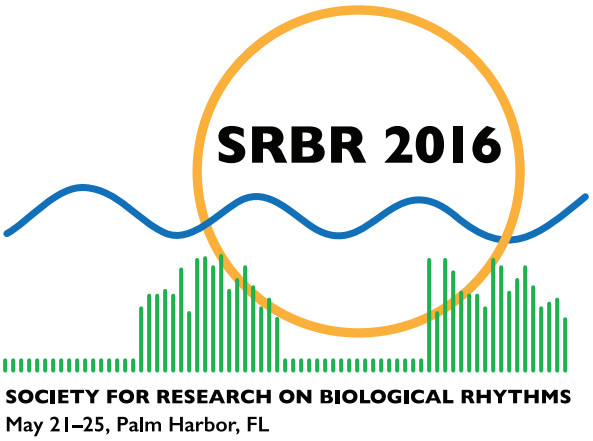




STIRLING HALL

EDINBURGH HALL





Logo Contest Winners

Winning Design (center)
Louise Hansen
Graduate Student
University of Edinburgh

1st Runner Up (left)
Alicia Michael
Graduate Student
University of California, Santa Cruz

2nd Runner Up (right)
Marie Pariollaud
Graduate Student
University of Manchester