ORU Annual Report  
Final Template for FY16/17  

Center for Circadian Biology (formerly Center for Chronobiology)  
Year of Establishment: 2009  
Location: UC San Diego  
Report Period: FY 2016/17  

ORU’s Major Activities  

Progress towards previous goals:  

1. Increasing diversity in CCB activities, both through invitations to future events that better  
   represent different groups, and targeted outreach. Increased diversity of invited speakers.  

2. Submitting group grant proposals. Submitted MRPI, Keck Foundation.  

3. Hosting successful workshops and symposia. Hosted fall trainee/faculty workshop, winter  
   symposium, public outreach workshop, all well-attended and well-received.  

4. Increasing corporate sponsorships to fund activities. Successful fundraising to enable planning  
   of subsequent year’s events; planned sponsored workshop for Philips Respironics.  

5. Continuing to encourage members to participate more and to submit grants through CCB.  

6. Increasing communication with members; added new members, improved website.  

7. Supporting media connections for interviews and articles, connecting media and journalists to  
   the best circadian specialists for their need. Added “Clocks in the News” section to website.  

8. Extended outreach by sponsoring trainee seminars at local California universities.  

9. Initiated international collaboration after trip to Australia organized by UCSD Office of Research  
   Affairs in December 2016.  

Highlights:  

Summer July-Aug 2016  

- Planning for 4th annual CCB “Workshop on Sleep, Health and Work Schedules” (Formerly  
  called “Workshop on Circadian Rhythms and Shiftwork”), held Feb 2017 in concert with the  
  “From Cells to Clinic” symposium (continued no registration fee policy).  

- Vigorous fundraising (Sonia Ancoli-Israel, Susan Golden, David Welsh, Terry Peters, Pattie  
  Magallanez).  

- 3 new members added, one member left UCSD.  

- Gorman and Golden deploy online tutorials for 250-student clocks class. Materials were created  
  by S. Golden HHMI Professor grant project “The BioClock Studio”  

- Panda’s lighting app (Myclocks) upgraded with funding from the Frontiers grant.
September 2016
- CCB trainee Bartlomiej Borek gave a seminar at Sonoma State as part of a training and outreach plan for the center launch program

November 2016
- CCB Fall Workshop with guest speaker Mitch Lazar (U Penn), guest trainees Tracey Hermanstyn (Wash U; URM), and Andrew Patton (Cambridge), plus 6 CCB trainees and 1 faculty speaker, and a professional development session
- CCB members Evans, Golden, Lamia, Panda appointed to organizing committee for 2018 Salk/Ipsen/Science Symposium on Biological Complexity: Biology of Time

December 2016
- UC Multicampus Research Programs and Initiatives proposal declined
- Dorothy Sears invited to Executive Committee (accepted)
- McCarthy joined Office of Research Affairs trip to Australia to explore collaboration possibilities (University of Sydney)

January 2017
- Golden - Keck Foundation concept paper with JCVI (J. Craig Venter Institute) was selected from across campus and with Keck deliberation for a full proposal, submitted through CCB (later notified not selected for funding)

February 2017
- Annual meeting of the External Advisory Board in conjunction with the CCB Symposium
- 8th annual CCB Symposium “From Cells to Clinic”. This event is an annual highlight of CCB, known throughout the international community as an exceptional meeting. Featured 18 speakers (six women, one Latin American, one African American), 160 attendees, from over 39 institutions and companies. Undergraduate students from the BioClock Studio participated as mic runners, interviewers, registration assistants, and poster presenters
- CCB “Workshop on Sleep, Health and Work Schedules” targeted for shiftworkers in the community. The workshop was held in concert with the symposium to leverage outside speakers. Featured 4 speakers, attracted 65 attendees, which included US Navy, firefighters, dentist, CEO, Nursing Instructor, UCSD medical students, and faculty from UCSD and other Institutions
- Trainees A. Kriebs and D. Duglan (Lamia lab) and member Brody initiate “Clocks in the News” contributions for CCB website, contributing 12 articles in 2017
- Indo-US program conference in India as part of the Indo-US Science and Technology Forum (Gorman/Panda)

March 2017
- CCB members of Salk/Ipsen/Science meeting organizing committee help to finalize program for January 2018 conference. Successfully negotiated for top trainee speaker from CCB fall workshop 2017 to have a speaking slot at the conference
- Initiated discussions with D. White to present workshop for Philips employees and collaborators on clinical topics relevant to circadian rhythms and health/disease

May 2017
- CCB offers support letters for grant submissions to CCB members (ten letters requested)
- Chronobiology Collaboration between Pharmacy and CCB initiated through meeting of Brody with Pharmacy Dean. Talks continued through summer with Brody and Sears meeting with
small group of PIs, followed by larger group. Profile of CCB member expertise in preparation for sharing with potential collaborators


**June 2017**

- Journalist Mark Kaufman of *Popular Science, Scientific American, Inverse*, reached out to CCB to help with his story about Sleep and Climate Change (distinct from L. Kaufman article)

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**ORU’s Committees**

**Executive Committee and Advisory Committee Meetings**


External Advisory Board Committee Meeting held on February 15, 2017. In attendance: Steve Kay (USC); Margaret Moline (Eisai pharmaceutical Co.); Joseph Takahashi (University of Texas Southwestern Medical Center); Michael Young (The Rockefeller University); Phyllis Zee (Northwestern); Susan Golden (UCSD); Sonia Ancoli-Israel (UCSD); Stu Brody (UCSD); Michael Gorman (UCSD); Katja Lamia (TSRI); Michael McCarthy (UCSD); Satchin Panda (SALK/UCSD); Dorothy Sears (UCSD); David Welsh (UCSD); and Erica Schoeller (UCSD)

**Executive Committee and Advisory Committee Recommendations**

Our external Advisory Board continues to praise our work. For example, at the 2017 meeting our acting Chair Dr. Joe Takahashi recognized that “CCB is a premier national circadian center”.

Specific recommendations of the Advisory Board included:

- For shiftwork workshops, seek sponsorship from sports teams, city, county, SANDAG, CalTrans, local utilities, or the Keck community outreach program.
- For a future workshop focusing on pharma topics, seek sponsorship from companies such as Reset Therapeutics.
- Look for NIH RFAs related to lighting.
- Consider adding non-scientific advisory board members as potential donors.

**Executive Committee and Advisory Committee Documentation**

Copies of CCB executive committee and external advisory board minutes are attached as a separate document.

**Diversity Efforts**

Individual members of CCB participate in various diversity efforts that are reported through their home departments. In an effort to make specific contributions as an ORU, CCB is incorporating practices to improve diversity and inclusion in all of our activities.

- The speaker invitation list for the 2017 symposium (18 total) included six women, one Latin American, one African American, and a postdoctoral trainee (winner of the speaking slot as top speaker at the fall workshop). Trainees from the CCB were tasked to think deeply and consider diversity in preparing their list of preferred speakers, and recommended women and URM speakers as top picks. A URM trainee from another institution was an invited speaker at the 2017 fall workshop.
CCB members’ contributions to diversity, presentations, and activities, July 2016 – June 2017:

Susan Golden
- Seminar, Washington University, St. Louis, MO
- Speaker, Microbiology Society (EU) Annual Conference, Edinburgh, Scotland
- Speaker, Cyanobacterial Circadian Workshop, Nagoya, Japan
- Plenary Speaker and session convener, American Society for Microbiology Microbe meeting

Diversity:
- Presentation to NSF START program students (provides summer research experience for incoming transfer students from underrepresented groups)
- Diversity committee, Division of Biological Sciences
- Lab tours for incoming transfer students
- Lab tour for undergrads from Cal State Dominguez Hills
- Lab tours for “overnight student” program to recruit diverse students
- Supervised summer student through HHMI EXROP program to provide research experiences to disadvantaged students
- Faculty leader for SACNAS mock grad school interview training
- CCB Postdoc Roger Tseng was a finalist for Howard Hughes Medical Institute (HHMI) Hanna H. Gray Fellows Program to promote diversity in science; he also Served as a judge for the Biophysical Society award at the greater San Diego Science and Engineering Fair, 2017

David Welsh:
- Society for Neuroscience, Washington, DC, November, 2017

Dorothy Sears:
- C3 Scientific Retreat – Sanford Burnham Prebys Medical Discovery Institute “Mechanisms Linking Prolonged Nightly Fasting with Cancer Risk” (2017)

Diversity & Mentoring:
- Scientista, UCSD Chapter – Faculty Advisor (2016-present)
- UCSD Women in Health Sciences Committee (2014-present)
  - Co-Chair, Spring Event Committee (2016-present)
  - Chair-Elect (2017-present)
- Washington State University College of Medicine – Faculty & Trainee Workshop
  - (with Cindy Simpson, Association for Women in Science) “Strategies for Addressing Biases and Barriers in Advancing to Positions of Leadership”
- Washington State University College of Medicine – Faculty & Trainee Workshop
  - (with Cindy Simpson, Association for Women in Science) “Importance of Mentoring Relationships for Sustained Career Success”
- Course - Transdisciplinary Research in Energetics & Cancer Training Course; NIH/NCI R25 CA203650 (2016-present)
- Week-long summer workshop and year-long mentorship of 2 trainees per year

Clinical Fellows:
- Ellen Lee, M.D. (2017-present) (Research co-advisor)

Postdoctoral Fellows/Visiting Scholars:
- Adriana Villaseñor, Ph.D. (2013-present) (Research co-advisor)
- Morgana Mongraw-Chaffin, Ph.D. (2013-2016) (Research co-advisor)
- Lorena Martin, Ph.D. (2013-2016) (Research co-advisor)
- Michelle Takemoto, PhD (2017-present) (Research co-advisor)

Junior Faculty:
- Sheri Hartman, Ph.D. (2013-present) (NIH/NCI K07 Award Research Mentor) – Currently Assistant Professor of Family Medicine and Public Health, UC San Diego

Medical Students:
- Torrey Czech (2016-present) - Independent Study Project (ISP) Committee Chair. Currently MS3.

Graduate Students:
- Lorena Pacheco (2016-present) - PhD thesis research co-advisor and committee member. UCSD/SDSU Joint Doctoral Program.
- Kristina Mardinian (2017) - M.P.H., lab research advisor. UCSD/SDSU Joint Program
- Benjamin Sarno (2018-present) - PhD thesis research co-advisor and Senate Exam Co-Chair; UCSD Nanobiology Graduate Program.
- Tiffany Gandolfo (2017-present) - PhD Thesis Committee Member; University of South Florida

Undergraduate and high school research students:
- Basma Abdellaoui Adams (2016-present) (Research advisor) – UC San Diego undergraduate
- Sabrina Aden (2016-present) (Research advisor) – SDSU undergraduate. NIH U54 UCSD/SDSU Partnership Program to reduce disparities in cancer research.
- Kaitlin Bessinger (2017-present) (Research advisor) - UC San Diego BS/MS program.
- Max Fang (2017-present) (Research advisor) – SDSU undergraduate. NIH U54 UCSD/SDSU Partnership Program to reduce disparities in cancer research.
- John Finkelman (Summer 2017) – Lab research advisor.
Sonia Ancoli-Israel  
- Past President, Congregation Beth El, La Jolla, California M. Larry Lawrence Jewish Community Center Advisory Board (2016)  
- Ken Budd, AARP’s Staying Sharp, Interviewed Jan 3, 2017  

Lisa Baik  
- 5 minute research talk on “Can You Feel the Light Tonight?” at the UC-Irvine NSF GRFP “Training for Tomorrow” Symposium, Irvine, CA, U.S.A.  

Bartlomiej Borek:  
- Circadian graduate seminar at Cal State Sonoma (Sep 2016)  
- "Engineering spatiotemporal patterns in biological systems", Cal State Sonoma (Sep 2016)  

Gena Glickman  
- Subjective report of light in the sleep environment: a cost-efficient enhancement of the sleep diary, SLEEP 2017, the 31st Annual Meeting of the Associated Professional Sleep Societies, Boston, Massachusetts (Jun 2017)  
- Sleep and neuroendocrine profiles in 3- and 9-month old infants with a family history of autism, SLEEP 2017, the 31st Annual Meeting of the Associated Professional Sleep Societies, Boston, Massachusetts (Jun 2017)  
- “Visiting Scientist” at a local elementary school (kindergarten-fifth graders) for their annual science fair, where I basically cheer on the kids, talk to them about science and give them a certificate.  

Liz Harrison  
- Sleep Education & Outreach, Healthy Kids Day, Peninsula YMCA (Apr 2017)  

William Joiner  
- Invited speaker, NIH National Center on Sleep Disorders Research Satellite meeting of the Society for Neuroscience (2016)  
- Invited speaker, Center for Functional Connectomics, KIST, Seoul, South Korea (2016)  
- Invited speaker, Janssen Research and Development (2017)
Diversity:
- Steering Committee member, UCSD IRACDA program (2016)
- Mock interviews with UCSD IRACDA trainees for faculty positions (2016)
- Panel discussion with UCSD IRACDA trainees on research ethics (2017)
- Admissions Committee member, UCSD IRACDA Program (2017)
- Mock interviews with UCSD IRACDA trainees for faculty positions (2017)

Katja Lamia:
- American Diabetes Association Annual Meeting, San Diego, CA, session chair (Jun 2017)
- University of California, Los Angeles, Jonsson Comprehensive Cancer Center (Apr 2017)
- The Bishops School, La Jolla, CA (Oct 2016)
- Radiation Research Society, Big Island, HI (Oct 2016)
- Lund University Diabetes Center, Malmo, Sweden (Sep 2016)
- Novo Nordisk, Copenhagen, Denmark (Sep 2016)
- Max Planck Research Institute, Munich, Germany (Sep 2016)
- 4th annual Helmholtz-Nature Medicine Conference on Diabetes, Munich, Germany (Sep 2016)
- Salk Meeting on Post-Translational Regulation of Cell Signaling (Aug 2016)
- SoCRA (Society of Clinical Research Associates) (Jul 2016)

Diversity:
- Hosted an undergraduate student in my lab this summer (2017) as part of Scripps Summer Undergraduate Research Fellowship program (SURF), which focuses on enhancing training and participation of underrepresented groups.
- I gave a talk to undergraduates visiting Scripps from the women’s college Scripps College.

Andy LiWang
- Talk @ Chronobiology Gordon Research Conference (Jul 2017): https://www.grc.org/chronobiology-conference/2017/
- Seminar @ UC Berkeley (Oct 2017): http://events.berkeley.edu/index.php/calendar/sn/chem.html?event_ID=112303&date=2017-10-30

Diversity:
- American Chemical Society’s Summer Experience for the Economically Disabled (ACS SEED) I coordinate the eight-week summer program at UC Merced for 7-9 high school students from families at or below the poverty line, and personally mentor 1-2 of these students every summer.
- I always mentor 1-4 undergrads doing research in my lab, at least one of whom is Hispanic. These students are encouraged to participate in numerous undergrad scientific conferences in California. I use my grants to pay for the cost of participating in these conferences.
- Annual Dinner with a Scientist hosted by the Merced County Office of Education. Local middle school students have dinner with me and other scientists to understand why scientists love their jobs, with the hope of inspiring these students.
Michael McCarthy:
• Navy Balboa Medical Center Grand Rounds (2017)
• Annual Meeting Society for Biological Psychiatry, San Diego, CA (May 2017)
• Annual Meeting Molecular Psychiatry Association, Maui, HI (Oct 2016)

Diversity & Mentoring:
UCSD Post-Doctoral Research Fellows
  o 2017-Present: Himanshu Mishra, Ph.D. – post-doctoral research fellow, primary supervisor
  o 2017-Present: Valerie Benner M.D. – post-doctoral research fellow, primary supervisor

UCSD Psychiatry Residents
  o 2016-2017 Natassia Gaznick - weekly supervision in outpatient psychiatry clinic

UCSD Medical Students & MSTP Research Trainees
  o 2017 Emily Ho B.S. - Medical Scientist Training Program research rotation

UCSD Undergraduate Research Trainees
  o 2017-present Noelle Ying - supervise undergraduate/masters research project
  o 2017-present Angelica Rose Luis - supervise undergraduate/masters research project
  o 2016-present Victoria Nudell - supervise undergraduate/masters research project

Pamela Mellon:
• Speaker and Lead Organizer, NICHD Steroids, Metabolism and Female Fertility Focus Group meeting for the National Centers for Research on Reproduction and Infertility, La Jolla
• Symposium Speaker, The Endocrine Society Annual Meeting, Orlando, Florida
• Speaker, Career Development Workshop, The Mentor-Mentee Relationship, The Endocrine Society Annual Meeting, Orlando
• Speaker, NICHD Translational Research In Reproduction National Meeting, Bethesda
• Mentoring Award Recipient, Society for Neuroscience, Washington, D.C.

Diversity & Mentoring:
• My URM students/postdocs in 2016-17:
  Postdoc:
  o Daquina Nicholas, Ph.D. 2017-present (Co-Mentor, Primary Mentor: Mark Lawson)
    ▪ Ph.D. from Loma Linda University, California.
    ▪ University of California President’s Postdoctoral Fellowship, 2017-2019

  PhD students:
  o Erica C. Pandolfi, 2014-present, Biomedical Sciences Program
    ▪ Initiative for Maximizing Student Diversity (IMSD) Training Program, 2013-2014
    ▪ NICHD Supplement for Diversity, 2014-2016
    ▪ National Institutes of Health NRSA Predoctoral Fellowship, 2017-2018, F31 HD089652
    ▪ “Homeodomain Proteins Six3 and Six6 in GnRH Neuron Development in Mice”
    ▪ The Future Leaders Advancing Research in Endocrinology (FLARE) program Awardee, The Endocrine Society
  o Shanna M. Newton, 2015-present, Biomedical Sciences Program
    ▪ Superfund P42 Training Program, 2015-2017
    ▪ Trainee of NIH Training Program in Genetics, 2016-2018
The Future Leaders Advancing Research in Endocrinology (FLARE) program Awardee, The Endocrine Society

Undergraduates:
- Rhea-Comfort Addo, Summer 2016
  - California State University at Long Beach
  - Summer Training Academy for Research Success (STARS) Program
- Sabrina Barreto, Summer 2017
  - Imperial Valley College
  - Summer Training Academy for Research Success (STARS) Program

Satchin Panda
- Salk Shiftwork Workshop (October 2016)
- University of San Diego (January 2017)
- Near Future Summit La Jolla, CA (March 2017)

Carrie Partch
- UC Davis, NIH Cell Biology Training Program Student Invitee
- University of Chicago, Dept. of Molecular Genetics and Cell Biology
- West Coast Protein Crystallography Workshop (Asilomar, CA)
- UC San Diego Center for Circadian Biology Symposium
- University of Pennsylvania, Dept. of Systems Pharmacology and Translational Therapeutics
- Johns Hopkins University, Dept. of Biology
- University of Massachusetts, Amherst, Dept. of Chemistry
- Colorado State University, Dept. of Cell and Molecular Biology
- Center for Chronobiology Inaugural Symposium, Cincinnati Children’s Hospital Medical Center (Cincinnati, OH)
- Google SciFoo Conference Lightning Talk (Mountain View, CA)

Diversity & Mentoring:
- “Workshop on the NSF Graduate Research Fellowship Program”, UC Santa Cruz Division of Physical and Biological Sciences (attended by 80+ graduate students and undergraduates from each department in the division, including a significant population of URMs – I could quantify the number of URM attendees if you need)
- “Mentoring–how to give it and how to get it” Session Co-Chair, UC Presidential Postdoctoral Fellowship Annual Meeting, Oakland, CA
- “Circadian rhythms: when biological clocks for bad”, Presentation to lay public for the UCSC Office of Development event “Cancer in the Crosshairs”
- Presentation on “Tenure and the Hierarchy of Academic Science” for the NIH IMSD (Initiative for Maximizing Student Development) Summer Research Internship Social Seminar Series
- Presentation on “How to find the right funding agency for your grant” for the UCSC STEM Postdoctoral Association “Grant Workshop”
- Faculty Panelist, UCSC STEM Scholars Transfer Day
- Protein Crystallography Workshop for the NIH-funded MARC (Maximizing Access to Research Careers) Summer Research Institute; this was a week-long lecture and lands-on lab focused on x-ray crystallography for underrepresented STEM undergraduates at UCSC (I have some beautiful pictures of crystals that the students made and a photo of one of my students looping the crystal at a microscope if you need good visuals!)
Barbara Parry

- Early vs. Late Wake Therapy Improves Mood in Antepartum vs. Postpartum Depression by Differentially Altering Melatonin and Sleep Timing. Sleep Research Society. Boston, MA. (Jun 2017)

Diversity & Mentoring:

- Supervision post-doctoral psychology fellow, Melissa Tarasenko, PhD: 20% effort on clinical assessment of women with mood disorders related to the reproductive cycle. January 1, 2016-July 23, 2016
- Supervision psychology graduate student Angela Buffington, M.A. July 2015-present in diagnostic and mood assessments of women’s mood disorders. She plans a postdoctoral fellowship in women’s mental health
- Supervision and mentor of undergraduate student Emily Judd, October 2015-present: recipient of a $5,000 research scholarship from the Doris A. Howell Foundation Women’s Health Research for her summer research proposal on subjective vs. objective sleep measures in women with perinatal depression vs. healthy controls. An abstract was submitted, and accepted for presentation at the Sleep Research Society in Denver, CO, June 2016. Poster presentation, Public Health Research Day, Treating Women’s Mood Changes with Sleep Alteration and Light Therapy. April 5, 2017. NAMI Walk/Run sponsorship April 29, 2017
- Supervision: undergraduate summer research laboratory rotation: Crystal Martinez. June 13-August 23, 2016 in premenstrual and peripartum depressions

Tokako Noguchi

- Association for Women in Science (AWIS), co-chair of a group to help women scientists to find jobs (Academia to Industry Coffee Club). Organizing monthly meetings and company tours.
- Science Fair Judge of The Greater San Diego Science and Engineering Fair (2013-present)

ORU Goals for the coming year

- Evaluate, prioritize, and implement recommendations from the external advisory board
- Continue to increase diversity in CCB activities
- Improve media coverage of CCB events
- Continue to host successful workshops and symposia
- Work with the campus development office to increase corporate and private fundraising
- Submit additional group grants, seeking center-level funding

Other Income

Refer to CCB Campus Data Report 2017
Comments on the Campus Data Report

The Campus Data report incorrectly reflects the space assigned to the Center for Circadian Biology. CCB is assigned two administrative offices and a conference room. The total is 558 square feet.

### STAFF & PARTICIPANTS

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<th>TYPE</th>
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VISITORS/VOLUNTEERS

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University-Industry and University-Government Activities

- Drs. David Welsh and Michael McCarthy work at the Veterans Affairs San Diego Healthcare System.
- Drs. Michael McCarthy and Michael Gorman – Australia Partnership
- Center for Circadian Biology – organized private workshop for Philips Respironics

Seminars, Lectures, Symposia and Conference programs

**Title: CCB Fall Workshop on Biological Timing**
**Date:** November 10, 2016
**Location:** The Great Hall, UCSD
**Presenter(s):**
Yong-Gang Chang - Postdoc in LiWang Lab, UC Merced
Eric Halgren - Professor of Radiology, UCSD
Tracey Hermanstyn - Postdoc in Herzog & Nerbonne Labs, Washington University, St. Louis
Anna Kriebs - Graduate Student in Lamia Lab, The Scripps Research Institute
Mitchell Lazar - Professor in Diabetes and Metabolic Diseases, University of Pennsylvania
Cindy Liu - Graduate Student in Panda Lab, Salk
Alicia Michael - Graduate Student in Partch Lab, UC Santa Cruz
Andrew Patton - Postdoc in Hastings Lab, Cambridge UK
David Welkie - Postdoc in Golden Lab, UCSD
Xuan Zhao - Postdoc in Evans Lab, Salk

**Title: 8th Annual CCB Symposium “From Cells to Clinic”**
**Date:** February 15-17, 2017
**Location:** Sanford Consortium Auditorium, UCSD
**Presenter(s):**
George Brainard - Thomas Jefferson University
Todd Coleman - UC San Diego
Charles Czeisler - Harvard Medical School
Davide Dulcis - UC San Diego
Ronald Evans - Salk Institute for Biological Studies
Ying-Hui Fu - UC San Francisco
Lance Kriegsfeld - UC Berkeley
Johanna Meijer - Leiden University, Netherlands
Jerome Menet - Texas A&M University
Christine Merlin - Texas A&M University
Alicia Michael - UC Santa Cruz
Carrie Partch - UC Santa Cruz
William Schwartz - University of Texas at Austin, Dell Medical School
Dorothy Sears - UC San Diego
David Welsh - UC San Diego
Kenneth Wright - University of Colorado Boulder
Marcelo Yanovsky - Institute Leloir Buenos Aires, Argentina
Amir Zarrinpar - UC San Diego

**Title:** CCB Workshop on Sleep, Health and Work Schedules
**Date:** Wednesday, February 15, 2017
**Location:** Sanford Consortium Auditorium, UCSD
**Presenter(s):**
Michael Gorman - Professor of Psychology, UC San Diego
Kenneth Wright - Professor of Integrative Physiology, University of Colorado Boulder
Sonia Ancoli-Israel - Professor Emeritus of Psychiatry and Medicine, UC San Diego
Phyllis Zee - Director of the Center for Sleep and Circadian Medicine, Northwestern University Feinberg School of Medicine

**Title:** CCB Special Seminar – “Circadian matters in health, safety and performance: The Alertness CRC and beyond on Sleep, Health and Work Schedules”
**Date:** Tuesday, March 21, 2017
**Location:** Center for Neural Circuits and Behavior (CNCB), Large Conference Room, UCSD
**Presenter:**
Professor Shantha M. Wilson Rajaratnam
Director, Research Translation (Industry Engagement)
Deputy Head, Monash School of Psychological Sciences

**ORU Publications**

**The 3 Most Cited Publications of the ORU**
To be provided at next 5-year review.

**Publications**

**CCB Publications – 7-1-2016 to 6-30-2017**

**Sonia Ancoli-Israel**
PMID: 27697577
The LITE study: Rationale and protocol for a randomized controlled trial of light therapy for cancer-related fatigue in cancer survivors.
Johnson JA, Garland SN, Carlson LE, Savard J, Simpson JS, Ancoli-Israel S, Campbell TS. 
PMID: 27394380

William Bechtel
Explicating Top-Down Causation Using Networks and Dynamics.
Bechtel W. 
Philosophy of Science. 2017 Apr 1. 84:2:253-274.

Top-Down 12 Causation in Biology and Neuroscience.
Bechtel W. 
Philosophical and Scientific Perspectives on Downward Causation. 2017 Feb 17.

Network analyses in systems biology: new strategies for dealing with biological complexity. 
Green S, Serban M, Scholl R, Jones N, Brigandt I, Bechtel W. 

Systems Biology: Negotiating Between Holism and Reductionism.
Bechtel, W 
Philosophy of Systems Biology. 2016 Dec 16:25-36. doi: https://doi.org/10.1007/978-3-319-47000-9_2

Diagrammatic Reasoning.
Bechtel, W 
Springer Handbook of Model-Based Science. 2017: 605-618. doi: https://doi.org/10.1007/978-3-319-30526-4_27

Mechanists Must be Holists Too! Perspectives from Circadian Biology.
Bechtel, W 

Joanne Chory
Dancing in the dark: darkness as a signal in plants. 
Seluzicki A, Burko Y, Chory J. 
PMID: 28044340

Nascent RNA sequencing reveals distinct features in plant transcription. 
Hetzel J, Duttke SH, Benner C, Chory J. 
PMID: 27729530

An histidine covalent receptor and butenolide complex mediates strigolactone perception. 
PMID: 27479744

Corrigendum: The epidermis coordinates auxin-induced stem growth in response to shade. 
Procko C, Burko Y, Jaillais Y, Ljung K, Long JA, Chory J. 
Brassinosteroid's multi-modular interaction with the general stress network customizes stimulus-specific responses in Arabidopsis.
Bjornson M, Dandekar AM, Chory J, Dehesh K.
PMID: 27457993

Mapping transcription factor interactome networks using HaloTag protein arrays.
PMID: 27357687

The epidermis coordinates auxin-induced stem growth in response to shade.
Procko C, Burko Y, Jaillais Y, Ljung K, Long JA, Chory J.

Christopher Colwell
Titanium biomaterials with complex surfaces induced aberrant peripheral circadian rhythms in bone marrow mesenchymal stromal cells.
PMID: 28817668

Development of diabetes does not alter behavioral and molecular circadian rhythms in a transgenic rat model of type 2 diabetes mellitus.
Qian J, Thomas AP, Schroeder AM, Rakshit K, Colwell CS, Matveyenko AV.

Neurocardiovascular deficits in the Q175 mouse model of Huntington's disease.
Cutler TS, Park S, Loh DH, Jordan MC, Yokota T, Roos KP, Ghiani CA, Colwell CS.
PMID: 28576852

Membrane Currents, Gene Expression, and Circadian Clocks.
Allen CN, Nitabach MN, Colwell CS.
PMID: 28246182

Circadian Rhythms: Does Burning the Midnight Oil Leave You Weak?
Colwell CS.

Paula Desplats
Circadian alterations during early stages of Alzheimer's disease are associated with aberrant cycles of DNA methylation in BMAL1.
Cronin P, McCarthy MJ, Lim ASP, … DA, Desplats P.
Combination of alpha-synuclein immunotherapy with anti-inflammatory treatment in a transgenic mouse model of multiple system atrophy.
PMID: 28057080

A de novo compound targeting α-synuclein improves deficits in models of Parkinson's disease.
*Brain.* 2016 Dec;139(Pt 12):3217-3236. Epub 2016 Sep 27.
PMID: 27679481

Neuropeptide Treatment with Cerebrolysin Enhances the Survival of Grafted Neural Stem Cell in an α-Synuclein Transgenic Model of Parkinson's Disease.
Rockenstein E, Desplats P, Ubhi K, …, Masliah E.
PMID: 27429559

**Pieter Dorrestein**

Multi-omics Analysis of Periodontal Pocket Microbial Communities Pre- and Posttreatment.
PMID: 28744846

A MALDI isotopic approach to discover natural products: Cryptomaldamide, a hybrid tripeptide from the marine cyanobacterium *Moorea producens*.
Kinnel RB, Esquenazi E, Leao T, Moss N, Mevers E, Pereira AR, Monroe EA, Korobeynikov A, Murray TF, Sherman D, Gerwick L, Dorrestein PC, Gerwick WH.
PMID: 28448144

Expanding the chemical repertoire of the endophyte *Streptomyces albospinus RLe7* reveals amphotericin B as an inducer of a fungal phenotype.
Chagas FO, Caraballo-Rodríguez AM, Dorrestein PC, Pupo MT.
PMID: 28375005

Digitizing mass spectrometry data to explore the chemical diversity and distribution of marine cyanobacteria and algae.

An elegant screen for drug-microbe interactions.
Vrbanac A, Debelius JW, Jiang L, Morton JT, Dorrestein P, Knight R.
PMID: 28494234
The WinCF Model - An Inexpensive and Tractable Microcosm of a Mucus Plugged Bronchiole to Study the Microbiology of Lung Infections.

Mass Spectrometry Based Molecular 3D-Cartography of Plant Metabolites.
Floros DJ, Petras D, Kapono CA, Melnik AV, Ling TJ, Knight R, Dorrestein PC.

Prioritizing Natural Product Diversity in a Collection of 146 Bacterial Strains Based on Growth and Extraction Protocols.
Crüsemann M, O'Neill EC, Larson CB, Melnik AV, Floros DJ, da Silva RR, Jensen PR, Dorrestein PC, Moore BS.

Integrating Molecular Networking and Biological Assays To Target the Isolation of a Cytotoxic Cyclic Octapeptide, Samoamide A, from an American Samoan Marine Cyanobacterium.

Antimicrobials from human skin commensal bacteria protect against Staphylococcus aureus and are deficient in atopic dermatitis.

From single cells to our planet-recent advances in using mass spectrometry for spatially resolved metabolomics.
Petras D, Jarmusch AK, Dorrestein PC.

Natural products as mediators of disease.
Garg N, Luzzatto-Knaan T, Melnik AV, Caraballo-Rodríguez AM, Floros DJ, Petras D, Gregor R, Dorrestein PC, Phelan VV.

Molecular Networking As a Drug Discovery, Drug Metabolism, and Precision Medicine Strategy.
Quinn RA, Nothias LF, Vining O, Meehan M, Esquenazi E, Dorrestein PC.

Erratum: Indexing the Pseudomonas specialized metabolome enabled the discovery of poaeamide B and the bananamides.
Nguyen DD, Melnik AV, Koyama N, Lu X, Schorn M, Fang J, …Dorrestein PC.
PMID: 28112718

Balance Trees Reveal Microbial Niche Differentiation.
Morton JT, Sanders J, Quinn RA, …, Dorrestein PC, Knight R.

Dereplication of peptidic natural products through database search of mass spectra.

Spatial Molecular Architecture of the Microbial Community of a Peltigera Lichen.
Garg N, Zeng Y, Edlund A, Melnik AV, Sanchez LM, … Dorrestein PC.

Antibiotic discovery is a walk in the park.
Nothias LF, Knight R, Dorrestein PC.

Lifestyle chemistries from phones for individual profiling.

Mass Spectrometry-Based Visualization of Molecules Associated with Human Habitats.
Petras D, Nothias LF, Quinn RA, Alexandrov T, Bandeira N, … Dorrestein PC.

SPLASH, a hashed identifier for mass spectra.

Indexing the Pseudomonas specialized metabolome enabled the discovery of poaeamide B and the bananamides.

Discovery of a Mosaic-Like Biosynthetic Assembly Line with a Decarboxylative Off-Loading Mechanism through a Combination of Genome Mining and Imaging.
Mir Mohseni M, Höver T, Barra L, Kaiser M, Dorrestein PC, Dickschat JS, Schäberle TF.

Ralstonia solanacearum lipopeptide induces chlamydospore development in fungi and facilitates bacterial entry into fungal tissues.

A metabolomics guided exploration of marine natural product chemical space.

Correction to 'Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence'.

Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease.

Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking.

Role of secondary metabolites in the interaction between Pseudomonas fluorescens and soil microorganisms under iron-limited conditions.

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