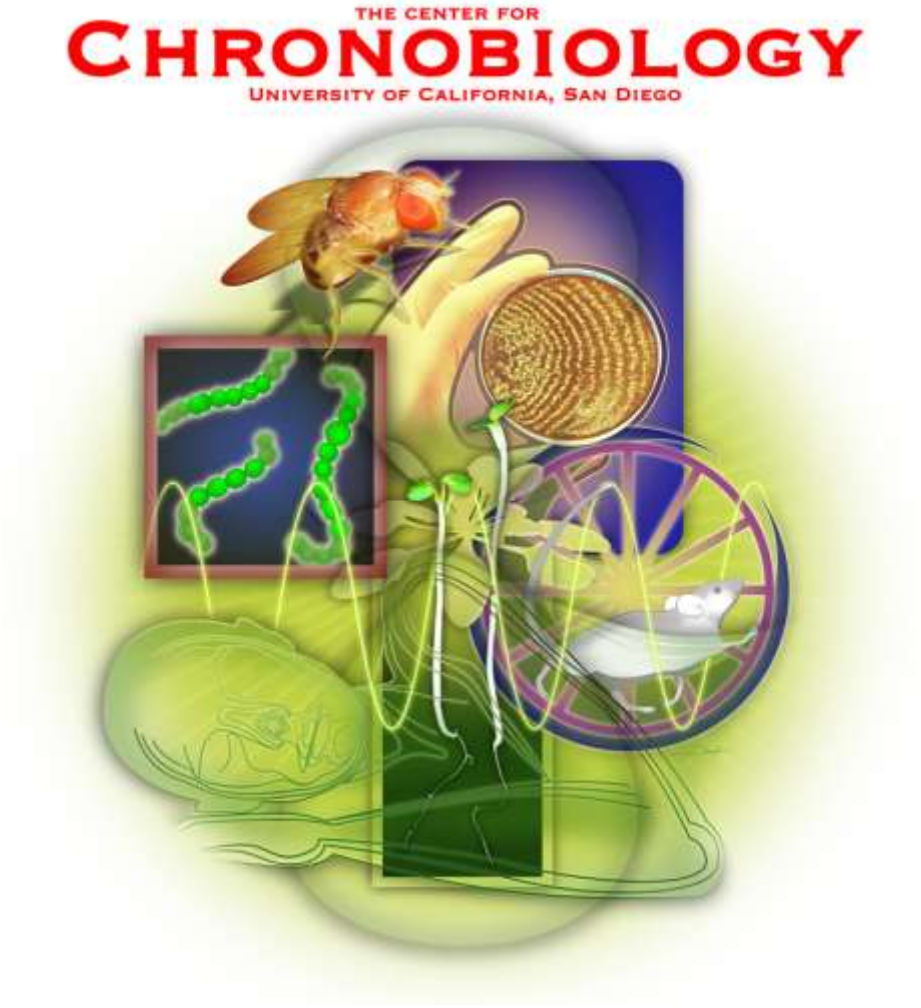
Center for Chronobiology

CCB

5 year Review of the Organized Research Unit
Fiscal Year 2010 thru 2013



The University of California, San Diego
Center for Chronobiology

Director's Statement

Center for Chronobiology (CCB)

The UCSD Center for Chronobiology (CCB) was established as an Organized Research Unit in 2009 to leverage the exceptional strength and breadth of circadian biology research that is conducted at UCSD. The Center brings together faculty from diverse disciplinary areas of the campus, including the Biological, Physical, and Social Sciences, Engineering, and the Schools of Medicine and Pharmacy. CCB focuses on questions in chronobiology - the study of biological timing – found at all levels of biological complexity and central to the organization of life, with an emphasis on circadian (~24 h) biological rhythms. With 34 members at UCSD, and affiliate members at the Scripps Research Institute, UC Santa Cruz, and UC Merced, CCB is the largest aggregate of circadian rhythms researchers in the world. CCB members span an exceptional range of research approaches and organisms, from *in vitro* rhythms and synthetic biology in micro-organisms, through plant and animal model organisms, to human clinical research. Moreover, members are, as individuals, leaders in their specific areas. Since the establishment of CCB, three members have been elected to the National Academy of Sciences (Golden, Sejnowski, and Spitzer). The establishment of this ORU in 2009 had the immediate effect of focusing both internal and international attention on our unique concentration of strength in circadian biology and placing UCSD on the map as a major center of research in this broad field. In subsequent years, the presence of this vibrant group has served to attract faculty, postdocs, and graduate students to UCSD who are interested in various aspects of circadian rhythms research, and to turn the eyes of the world to our campus for leadership in this field.

GOALS AND OBJECTIVES

CCB was established to provide infrastructure to foster interdisciplinary research in the broad area of biological timing. CCB hosts activities to facilitate synergistic activities among its members and provides administrative support for submitting and administering grant applications.

The mission of CCB is to:

- Foster innovative research that reveals the mechanisms, general principles, and applications of biological rhythms in diverse organisms.
- Provide support for investigators to incorporate the study of daily rhythmicity into their biological studies, particularly as it relates to behavior, physiology, and medicine.
- Form alliances among scientists working in basic and clinical aspects of chronobiology.
- Mentor undergraduate, graduate, and postdoctoral students in cross-disciplinary approaches through chronobiology research.
- Produce and disseminate materials for education and scientific advocacy on chronobiology, a topic of intrinsic interest and broad societal relevance.

In our inaugural year our major goal was to put CCB on the map both on campus and around the world as a premier center for chronobiology research. We met these goals by: establishing an active Executive Committee; hosting local activities and outfitting a conference room and offices to engage our members and encourage interaction; launching an attractive and informative website (ccb.ucsd.edu); and hosting a symposium with top chronobiology speakers from within CCB and across the nation. In subsequent years we have built on this model by: establishing a stellar external advisory committee; expanding our local workshop to provide more training opportunities; expanding the annual symposium to an international scale and incorporating outreach components; and working to encourage collaborative research. We have succeeded spectacularly in garnering an international reputation as a top – perhaps the top – circadian biology community in the world, and in providing a cohesive and stimulating environment for our trainees. Additional goals for the coming years include (1) strengthening our financial base through competitive grants, development, and revenue-generating workshops and (2) increasing our impact on public health through synergistic research endeavors and improved translation of research findings to effect public, medical, and community behaviors.

CCB Executive Committee Members

LEADERSHIP, ADMINISTRATION, AND GOVERNANCE

CCB is guided by a dedicated Executive Committee that meets monthly and directs the activities of the center. In addition to Director Susan Golden (Biological Sciences) and Associate Director David Welsh (Psychiatry), members include Michael Gorman (Psychology), Stuart Brody (emeritus, Biological Sciences), Sonia Ancoli-Israel (emeritus, Psychiatry and Medicine), Satchin Panda (Salk), and Colleen Doherty (postdoctoral representative). Additionally, an outstanding External Advisory Committee meets annually to review CCB. Members include Gene Block (UCLA Chancellor), Alexander Hoffmann (UCSD representative and Chair of Board, Co-director of the Bioinformatics and Systems Biology Graduate Program), Steve Kay (former CCB member, Dornsife Dean, USC, National Academy of Sciences member), Margaret Moline (Director of Clinical Research in the Medical Research Department at Purdue Pharma L.P.), Joseph Takahashi (Loyd B. Sands Distinguished Chair in Neuroscience, University of Texas Southwestern Medical Center, National Academy of Sciences member), Michael Young (VP for Academic Affairs, The Rockefeller University, National Academy of Sciences member), and Phyllis Zee, Associate Director, Center for Sleep and Circadian Biology and Professor, Northwestern University Institute for Neuroscience). (see letters of support, Appendix A)

ACCOMPLISHMENTS: RESEARCH ACTIVITIES

A central goal of CCB has been to foster interactions among circadian biologists at UCSD and outside of the university, stimulating synergisms that enhance the impact of individual programs that are already outstanding. The focal activity is an annual symposium, "*From Cells to Clinic*," that is cited by many participants as one of the best international meetings in this field, and which emphasizes our unique breadth of expertise from synthetic biology and single cell molecular mechanisms to translational and clinical research (See a selection of letters of support, Appendix B). The fifth annual meeting is scheduled for February 5-7, 2014. This symposium provides the faculty and trainees of CCB laboratories with a unique opportunity to interact with top circadian biologists in an intimate venue (approximately 120 in attendance). Each year, the symposium brings in approximately 12 outside experts in diverse areas of circadian rhythms biology to join approximately 6 CCB members as speakers. There is no other meeting

Collaboration – Invited speakers from around the world - 2013

in the field that covers such a breadth of topics while avoiding parallel sessions that would divide the clinicians from molecular biologists. The prominence of speakers invited to this annual meeting and the quality of the interactions and presentations quickly enhanced the international reputation of circadian researchers at UCSD. Interactions at other conferences and comments from grant reviewers indicate that the research environment at UCSD is acknowledged as outstanding in circadian biology. Support for this valuable meeting has shifted from initial ORA operating funds to a mix of grants, sponsors, and registration fees that will allow the meeting to be sustainable and remain accessible to trainees.

We are actively working to expand the impact and influence of CCB by developing collaborations with top circadian biologists throughout California. We recently secured a grant from UCOP to re-configure our fall workshop (November 8, 2013, see Training, below) to incorporate a UC System-wide planning meeting that includes chronobiology colleagues from other UC campuses (see proposal, Appendix C). Together, the California consortium has superior expertise in circadian aspects of: sleep, mood disorders, and behavior; metabolism and nutrition; reproduction; plant circadian rhythms; and molecular and structural mechanisms of clocks in cells. The workshop goal will be to identify "grand challenges" and special topics for which the California circadian research community can have an exceptional impact and will be especially competitive. A major goal of the workshop is to identify specific strengths among the approximately 50 California circadian biology laboratories that will make us competitive for a variety of funding mechanisms, including: a multi-campus center grant, such as NIH P50; W.M. Keck Science and Engineering, Medical Research, and Southern California Programs; multi-investigator R01 and P01 grants from NIH. In preparation for this workshop, we are developing a Research Web Portal, based on the CBAM

(Center for Brain Activity Mapping) site created by the Kavli Institute for Brain and Mind for the new BRAIN initiative, and expect to have it operational by October, 2013.

Some examples of collaborative efforts that would not have come together without CCB include: (1) A Chancellor's Interdisciplinary Collaboratories program grant from the Dean of Graduate Studies (Emergent circadian waveforms from multiple component oscillations: computational, biosynthetic, microbial, and vertebrate models) to support students from labs in Psychology, Bioengineering, and Philosophy (manuscripts in preparation); (2) A collaboration of the Golden and Bechtel groups on use of diagrams and other visual representations in scientific reasoning, using circadian research as an exemplar; (3) a collaboration between the S. Kay and LiWang labs to determine the molecular structure of a plant clock component; (4) a proposal to the Keck Science and Engineering Research Program (Golden, Hasty, Tsimring) which was a finalist for external submission.

Grants specifically submitted through CCB are listed in the Income section. CCB faculty members are well funded, although many submit their grants through their primary appointment units. A large fraction of our members have appointments in Health Sciences, and barriers remain for submission of those grants through CCB. Some other ORUs serve largely to provide a UCSD unit for researchers who otherwise would not have a home appointment. Although we expect growth in research faculty appointments in the future, this has not been a driving force for CCB. Rather, CCB provides an interactive network to synergize the activities of dozens of labs in diverse departments that would not otherwise come together and discuss common interests in circadian rhythms. Beyond specific new collaborations, the increased interaction among circadian scientists from different primary units has a stimulatory effect that inspires more creative research. We will focus in the coming years on nucleating group grants for collaborative efforts that extend beyond individual labs.

ACCOMPLISHMENTS: STUDENT RESEARCH TRAINING

Training is an area in which CCB shines. Just over 100 graduate and postdoctoral trainees work in CCB labs and participate in our activities. A postdoctoral trainee serves on the CCB executive committee. We strive to integrate our efforts from undergraduate education through graduate and postdoctoral mentoring, faculty research success, and community outreach. Each fall 300 upper-level undergraduate students enroll in a course called "Circadian Rhythms – Biological Clocks," which is cross-listed between Biology and Psychology and is taught by CCB members Gorman, Golden, and Panda, with guest lectures on their research specialties by Ancoli-Israel, Drummond, Welsh, and a graduate or postdoctoral CCB member (http://ccb.ucsd.edu/activities-and-events/courses.html). Graduate students from CCB labs serve as Teaching Assistants in the course. Because the content spans topics from the molecular interactions of circadian oscillators in cyanobacteria and plants, through the network properties of neurons in the suprachiasmatic nucleus of mammals, to the sleep/wake cycles of humans, the TAs expand their knowledge of circadian systems beyond that used in their own labs. This course is unique internationally in its size and scope of topics, requiring psychology

students, molecular biology students, and even professors to work outside their comfort zones. The course attracts undergraduate researchers to CCB laboratories and inspires students to continue in biomedical fields.

Our Clockwatchers journal club meets twice a month during the academic year to cover diverse papers of interest to the CCB community. Graduate students, postdocs, and faculty members participate in these meetings, and exchange ideas related to the field and their own research. The total annual participation is just under 300 in attendance.

The fall CCB workshop is an opportunity to highlight local circadian research, and for trainees to hone presentation skills. Approximately 100 participants per year attend this all-day workshop, which features presentations by 7 graduate and postdoctoral CCB scientists, 4 CCB faculty, and one outside faculty speaker, usually from another UC campus (http://ccb.ucsd.edu/activities-and-events/past-events/workshop-fall-2012.html). One of the trainee speakers from the fall workshop is selected for an invited spot in the "*From Cells to Clinic*" international symposium. The fall workshop is also used to disseminate information about CCB, and to solicit feedback from participants. A questionnaire distributed at the last workshop showed that the opportunity trainees most wanted from CCB is additional access to teaching experience. As a result, CCB worked with the organizers of the International Chronobiology Summer School for 2013 (https://my.vanderbilt.edu/chronobiologysummerschool/), held at Vanderbilt University, to incorporate three CCB postdoctoral trainees as instructors in the course. This week-long course (https://my.vanderbilt.edu/chronobiologysummerschool/) attracts students from all over the world to learn topics similar to those covered in our undergraduate course at UCSD. Meeting organizer Dr. Erik Herzog (see letter of support, Appendix D) indicated that the CCB instructors provided a creative and stimulating addition to the course, and that he will recommend that postdoctoral instructors be recruited in future years as well.

ACCOMPLISHMENTS: RELATIONSHIPS TO OTHER ACADEMIC UNITS

CCB membership spans the UCSD Health Sciences departments of Psychiatry, Reproductive Medicine, and Pharmacology, The Kavli and BioCircuits Institutes, the Division of Biological Sciences, and the departments of Philosophy, Physics, and Psychology. Three faculty members at other institutions are affiliate or associate members of CCB: C. Partch, UC Santa Cruz; A. LiWang, UC Merced; K. Lamia, The Scripps Research Institute. Additionally, former CCB member S. Kay is now the Dornsife Dean at the University of Southern California, and an External Advisory Board member. Thus, our connections to academic units outside UCSD are significant.

CCB is working closely with the Division of Biological Sciences CCE|Bio Center for Continuing Education in the BioSciences to increase our education and outreach efforts and to identify stakeholders and potential supporters in the community. CCE|Bio provides expert market analysis to identify constituencies that are interested in learning more about the field of circadian biology and to determine the scope, duration, and costs of workshops to fill the needs that are identified. As a result of this partnership, a half-day "*Workshop on Circadian Rhythms and Shiftwork*" will be offered in conjunction with the 2014 CCB Annual *"From Cells to Clinic"* symposium (see proposal, Appendix C). The half-day workshop will be targeted to industries that rely on shiftwork: transportation, hotels, hospitals, and information technologies. By timing the stakeholder workshop in conjunction with our scientific conference, we can incorporate some additional national and international experts in shiftwork from outside of CCB who will be on campus as invited speakers for our symposium.

As discussed in the Research section, we are actively seeking greater interaction with colleagues at other UCs. This may position us well to compete for a Multicampus Research Programs and Initiatives (MRPI) center grant to further enhance our research collaborations and other group activities.

ACCOMPLISHMENTS: PUBLIC SERVICE AND OUTREACH

In the past four years, CCB members have been very active in presentations to groups in local, national, and international venues. Appendix E Table 1 provides a partial list of presentations by members who responded with records of their activities. CCB members have worked with media outlets such as radio, TV, documentaries, newspaper articles, and online interviews to reach broad constituencies. Local media, including the La Jolla Light, San Diego Union Tribune, and KPBS, have publicized our symposia, workshops, and research publications. Some research highlights, which we post on our website ccb.ucsd.edu, have made major news stories, such as work from the Panda lab on the role of meal timing in obesity, and from the Kay lab on potential clock-resetting drugs. The Science Network covered the 2012 "*From Cells to Clinic"* symposium and posted talks and interviews online (http://thesciencenetwork.org/programs/ccb-symposium-2011). Students from San Diego's High Tech High attended a session of the symposium one year, and we have plans to extend invitations to students from High Tech High and the Preuss School for 2014. We have recently established a LinkedIn community to encourage information exchange: (http://www.linkedin.com/groups/UCSD-Center-Chronobiology-4189278/about).

ACCOMPLISHMENTS: DIVERSITY

CCB laboratories work to advance UCSD's goals of enhancing diversity in the research community by mentoring students from under-represented groups and joining conferences that attract diverse participants, such as SACNAS and MARC. Appendix E Table 2 lists some of these activities. Specific summer programs in which CCB members participate include UC-LEADS, STARS, and NIH MARC and ACCESS. CCB members Dmitri Nusinow and Susan Cohen were appointed as University of California President's Postdoctoral Fellows, in a program designed to promote equal opportunity among the UC faculty by encouraging a diverse candidate pool. CCB Director Golden is the new Faculty Equity Advisor for the Division of Biological Sciences.

ACCOMPLISHMENTS: JUSTIFICATION FOR CONTINUANCE

CCB is now firmly established and has an infrastructure that can support bold new initiatives. We seek to identify those areas in which we have special expertise and strength to lead the community. With many members who are leaders in the field, CCB has the stature and mandate to tackle transformational research, to transform public and medical awareness of circadian biology, and to stimulate student and granting agency enthusiasm for translational research in this area. Reaching these goals is our current mission. We are confident that we have the potential to stimulate new collaborations that have not yet been realized. In a pivotal time in which a range of medical fields, including cardiolology (http://www.keystonesymposia.org/index.cfm?e=web.Meeting.Program&meetingid=1211) and aging (http://web.mit.edu/newsoffice/2013/the-link-between-circadian-rhythms-and-aging-0620.html) acknowledge the importance of circadian rhythms for both research and clinical translation, CCB is poised to be the group that coordinates and translates these connections. Our new grant from UCOP will help us to coordinate these efforts among UC campuses (see proposal, Appendix C).

Market analysis by our partner group CCE|Bio has revealed that the term "chronobiology" is less familiar to non-chronobiologists than "circadian." Accordingly, our Executive Committee suggests that we rename as the "Center for Circadian Biology", while preserving our established brand recognition as "CCB." Although "chronobiology," literally the biology of time, is a more inclusive moniker than "circadian," which

focuses more specifically on a 24-h timescale, "chronobiology" is not recognized outside of the circadian biology community. As we seek to increase our outreach and development activities, we are burdened by having to define our name before people realize that they're interested in us. Thus, we request renewal of CCB for 5 years with the new name "Center for Circadian Biology".

ACCOMPLISHMENTS: SUCCESS METRICS

In the coming 5-year period we will formalize our tracking of the metrics by which to gauge our growth and success. Key metrics (2009-13 numbers in parentheses where available):

Research

The numbers of:
graduate students (49) and postdocs (54) working in CCB members labs
off-campus visitors to CCB labs
participants (internal and external) attending our Fall workshop(s) (381)
participants (internal and external) attending our international Symposia (738)
new collaborations among the CCB members
grants applied for through CCB (requested and funded amounts; current data in “Income”)
publications from CCB members (594)

Training

Attendance at Clockwatchers Journal Club sessions (~300/year)
Lectures presented by graduate and postdoctoral trainees on and off campus
Positions held by trainees after leaving CCB labs
Participation of CCB graduate students as TAs in “Circadian Rhythms – Biological Clocks”
Participation of CCB graduate students and postdocs as mentors of undergraduate students

Outreach

The numbers of and audiences for:
- lectures given by CCB members to audiences outside of UCSD
- workshops presented by CCB
- press releases, and articles about the activities of CCB and its members

Participation of elementary and secondary students in CCB events
The numbers and countries of origin for hits on our website (26k visits, 71k views, 10 countries)

Diversity

The numbers of students in CCB member labs from the URM population
The spectrum of programs in which CCB participates
The participation of CCB members in conferences and events that encourage diversity in the research enterprise
The participation of CCB faculty in programs that promote STEM careers to a broad community

Appendix C

UNIVERSITY OF CALIFORNIA

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

OFFICE OF THE VICE PRESIDENT FOR RESEARCH AND GRADUATE STUDIES

OFFICE OF THE PRESIDENT
1111 Franklin Street, 11th Floor
Oakland, California 94607-5200

August 6, 2013

Susan Golden, PhD
Director, UCSD Center for Chronobiology
University of California, San Diego
sgolden@ucsd.edu

Dear Professor Golden,

Thank you for your request to my office for Research Opportunity Funds to support the upcoming workshops focused on *Integrating Circadian Rhythms Research and Outreach to Change the Landscape of Public Health Policy*. Your proposal received a favorable review from our UCOP funding committee, and I am pleased to tell you that we will fund your request of $20,000 to support the workshops and the development of the related web-based coordination resource. Our review committee found your proposal to leverage the existing framework at UCSD and extend it to other interested researchers throughout the UC community to be compelling, and especially liked the emphasis on strategic planning and organization to collectively identify grand challenges in this area.

This funding is one-time only, and is intended to encourage the attraction of outside sponsorship for ongoing research in these areas. Annette Morrison-Politeo in my office will transfer the funds to a local campus account. Please have one of your local administrators contact her at Annette.Morrison-Politeo@ucop.edu to assist her in making the transfer.

Finally, we are very interested in hearing the outcomes of your project and will look forward to receiving a progress report from you at the end of this fiscal year (2013-14). Of course, we would welcome hearing news from you sooner, as well. We are particularly interested in any proposals submitted as a result of the proposed project and external funding secured for continued work in these areas.

Congratulations. We look forward to hearing from you on the success of your project.

Sincerely,

Steven Beckwith
Vice President
Research and Graduate Studies

cc: Vice Chancellor for Research Sandra Brown, sandrabrown@ucsd.edu
Vice Chancellor for Research Harris Lewin, lewin@ucdavis.edu
Vice Chancellor for Research John Hemminger, jchemmin@uci.edu
Vice Chancellor for Research James Economou, jeconomou@conet.ucla.edu
Vice Chancellor for Research Samuel Traina, straina@ucmerced.edu
Business Analyst Annette Morrison-Politeo, Annette.Morrison-Politeo@ucop.edu
RISA Analyst Emily Rader, Emily.Rader@ucop.edu

Integrating Circadian Rhythms Research and Outreach to Change the Landscape of Public Health Policy

Participating Faculty (key personnel; many others at most campuses)

UCSD Center for Chronobiology (CCB)

Susan S. Golden – CCB Director and Distinguished Professor of Molecular Biology
David K. Welsh – CCB Associate Director and Department of Psychiatry
Sonia Ancoli-Israel – Director, Gillin Sleep and Chronomedicine Research Center, and Departments of Psychiatry and Medicine
William Bechtel – Department of Philosophy, Interdisciplinary Program in Cognitive Science
Michael Gorman – Department of Psychology
Ralph Greenspan – Associate Director, Kavli Institute for Mind and Brain
Satchin Panda – Regulatory Biology Laboratory, Salk Institute

UC – Davis
Stacey Harmer – Department of Plant Biology

UC – Irvine
Paolo Sassone-Corsi – Center for Epigenetics and Metabolism, School of Medicine

UCLA Medical School
Christopher Colwell – Brain Research Institute, Psychiatry and Biobehavioral Sciences, Circadian and Sleep Medicine affinity group

UC – Merced
Andy LiWang – School of Natural Sciences, UCSD CCB Affiliate Member

UC – Santa Cruz
Carrie Partch – Department of Chemistry & Biochemistry, UCSD CCB Affiliate Member

UCSF
Louis J. Ptáček – Department of Neurology, Howard Hughes Medical Institute

Proposed Activities

This project will leverage the outstanding strength of UC system scientists in circadian biology research in order to change the public health landscape through synergistic research endeavors and improved translation of research findings to public, medical, and community behaviors. Research has shown that the timing of biological processes in humans and most other organisms is so extensive and significant that essentially all aspects of human enterprise – behavior, health, agriculture, environment, industry – are affected by biological clocks. For example, UC scientists have demonstrated that: the development of obesity in laboratory mice has as much to do with the time of day at which feeding occurs as with the total number of calories ingested [1]; the immune system responds differently to *Salmonella* infection at different times of day [2]; and circadian dysfunction is likely to be an integral part of the pathology associated with Parkinson's Disease [3]. With many leaders in the field, the UC chronobiology (biological timing) community has the stature and mandate to tackle transformational research, transform public and medical awareness of circadian biology, and stimulate student and granting agency enthusiasm for translational research in this area. A UCOP grant will support: (1) a workshop that will identify collaborative research initiatives for which the UC chronobiology community will be especially competitive; (2) development of a web-based resource for coordinating collaborative research efforts; and (3) a workshop to educate business and industry stakeholders on the biological implications of shift work on health.

The project leverages an existing framework: the UCSD Center for Chronobiology (CCB), an ORU that has 34 members at UCSD and affiliate members at UC Santa Cruz and UC Merced, and is the largest aggregate of circadian rhythms researchers in the world. Additional strength in this field is present throughout the UC community, such as the UCLA Circadian and Sleep Medicine affinity group. The UCOP grant will enable UC circadian researchers to identify grand challenges that can be more successfully approached through collaboration, and to identify smaller groups that will be nationally competitive in targeted research areas. Together, the UC consortium has superior expertise in circadian aspects of: sleep, mood disorders, and behavior; metabolism and nutrition; reproduction; plant circadian rhythms; and molecular and structural mechanisms of clocks in cells. A fall workshop will be used to identify strengths for new inter-UC research collaborations, and to align groups, topics, agencies, and funding mechanisms for effective targeting of effort. The workshop will prepare a roadmap for Center and multiple-PI grant proposals to be submitted to targeted agencies. A web-based portal will be developed to facilitate collaboration and exchange of data among campuses. These organizational efforts will result in increased extramural funding to UC researchers and transformational advances in circadian research.

Despite clear research demonstrating the negative health effects of circadian disruption, the public has little understanding of circadian rhythms and biological clocks beyond the recognition of jetlag as a travel annoyance, and physicians receive no training about the potential benefits of delivering therapies at times of day when they are more effective and have fewer side effects. A winter workshop will inform industry groups on the biology, pathology, and implications of shift work. Targeted stakeholders include airlines, hospitals, trucking companies, police and firefighters, railroads, hotels, and technology companies such as Qualcomm. The anticipated long-term impacts of outreach efforts are both tangible and far-reaching for California communities: *e.g.*, enhanced public safety from fewer industrial and traffic accidents; health benefits from optimally timed treatments and reduction in obesity; improved agricultural and industrial productivity through better environmentally adapted crops, and health-protecting labor practices.

Hatori, M., et al., *Time-restricted feeding without reducing caloric intake prevents metabolic diseases in mice fed a high-fat diet.* Cell Metab., 2012. **15**(6): p. 848-60.

Bellet, M.M., et al., *Circadian clock regulates the host response to Salmonella.* Proc. Natl. Acad. Sci. U S A, 2013. **110**(24): p. 9897-902.

Willison, L.D., et al., *Circadian dysfunction may be a key component of the non-motor symptoms of Parkinson's disease: insights from a transgenic mouse model.* Exp. Neurol., 2013. **243**: p. 57-66.

Anticipated project results and deliverables

1. Research Workshop

Results: UCOP Funding will allow an annual UCSD CCB workshop to be re-configured as a UC System-wide planning meeting that includes chronobiology colleagues from other UC campuses. The workshop goal will be to identify "grand challenges" and special topics for which the California circadian research community can have an exceptional impact and will be especially competitive. In the past, this workshop has featured the research of local PIs, postdocs, and graduate students, and hosted one invited speaker from another UC each year. This year, the timing of the workshop (November 8, 2013) has been chosen to be adjacent to the Society for Neuroscience meeting that will be held in San Diego, to encourage broad participation from other UC campuses. A major goal of the workshop is to identify specific strengths among the approximately 50 California circadian biology laboratories that will make us competitive for a variety of funding mechanisms, including: a multi-campus center grant, such as NIH P50; W.M. Keck Science and Engineering, Medical Research, and Southern California Programs; multi-investigator R01 and P01 grants from NIH.

Deliverables: A white paper will be developed from the November workshop to provide the framework for a variety of collaborative research initiatives, so that teams can be identified quickly in response to Requests for Proposals (RFPs) that arise.

2. Research Web Portal

Results: A secure web interface will be created, based on user-friendly, low-cost platforms, which can be used to share unpublished datasets among UC chronobiology researchers, organize materials for grant submissions, and facilitate collaborative discussion. Our consortium will also benefit greatly from the impending development of a similar resource by participants in the new BRAIN initiative (http://www.whitehouse.gov/infographics/brain-initiative), which includes members of the UCSD CCB.

Deliverables: The portal, accessible by colleagues throughout the UC system, will be operational by August 2014, with continuous improvements to be made as needed.

3. Community Stakeholder Workshop on Shift Work

Results: A half-day workshop will be hosted in February 2014 to inform diverse stakeholders about the biology, health implications, and industrial hazards of shift work. The workshop will coincide with an annual international symposium, "*From Cells to Clinic*," that is hosted by UCSD CCB and highlights work of researchers from several UCs, as well as national and international speakers. By coordinating the workshop with the annual symposium, outside speakers will be present to augment the expertise of local experts on shift work. Networking opportunities will be organized to facilitate interaction among scientists at the symposium and regional stakeholders. Targeted audiences for the workshop include human resources personnel and managers from airlines, hospitals, trucking companies, police and firefighters, railroads, hotels, and technology companies such as Qualcomm. Interaction with the community will be catalyzed by partnering with CONNECT (http://connect.org), a regional program that has worked successfully since 1985 to link San Diego research organizations, inventors, entrepreneurs, professional service providers, policymakers, and venture capital investors.

Deliverables: The half-day workshop will be held in February 2014. Diverse stakeholders will be enlightened regarding research in circadian rhythms as it relates to shift work and the heath effects of circadian desynchrony. Opportunities for interactions among stakeholders and circadian rhythms researchers will stimulate additional industrial and community partnerships.

UNIVERSITY OF CALIFORNIA, SAN DIEGO

UCSD

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

OFFICE OF RESEARCH AFFAIRS

9500 GILMAN DRIVE
LA JOLLA, CALIFORNIA 92093-0043
PHONE: (858) 534-3526
FAX: (858) 534-3868

July 16, 2013

Re: UC Research Opportunity Fund

To whom it may concern:

The University of California, San Diego strongly supports the attached proposal, originating from the UCSD Center for Chronobiology (CCB), to strengthen the system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus multi-investigator grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

The CCB is a formal Organized Research Unit (ORU) at UC San Diego and, as such, will receive over $108,000 in budgetary and administrative support from UC San Diego during the coming year, in addition to space to enhance linkages of research faculty from across campus.

The Office of Research Affairs also provides central administrative services at no cost to CCB, including an Academic Personnel Analyst, an HR Specialist, Timekeeping, DSA, and IT services, on an as needed basis.

I am very pleased to be able to lend my support to this request. Please let me know if you have any questions I can answer.

Sincerely,

Sandra A. Brown
Vice Chancellor for Research
University of California, San Diego

Budget/Budget Justification – Total request: $20,000

The project is built upon existing infrastructure of the UCSD Center for Chronobiology (CCB), an ORU which provides administrative and business support for circadian rhythms researchers at UCSD ($108,502 allocation FY2014). UCSD does not provide an operating budget for CCB. However, we anticipate raising at least $25,000 in corporate sponsorships and registrations for the "*Cells to Clinic*" workshop and have funds in hand from previous year budgets for meeting expenses other than the UC-wide scope expansion and stakeholder workshop proposed here. Thus, two meetings which are already in planning stages for the 2013-14 academic year can be expanded with UCOP support to achieve the goals of the project.

Research Workshop Expenses
Justification: The workshop is a key feature of the planning project. It will bring together PIs, students, and postdocs from many UC campuses to set the priorities for our joint research efforts.

Travel for participants from other UCs to UCSD (lodging, mileage, and/or airfare)	
Los Angeles area (5 X $400)	$2,000
UCSF, UCD, UCSC, UCM (4 X $750)	3,000
Food (breakfast, breaks, lunch, reception)	
$40 per person X 50 participants	2,000
miscellaneous (venue charges, A/V, nametags, parking)	1,000

Shift Work Stakeholder Workshop Expenses:
Justification: The stakeholder workshop benefits from the existing infrastructure of the "*Cells to Clinic*" symposium, which is organized by UCSD CCB and will attract scientists from partner UCs and international speakers. The faculty participating on this proposal from other UCs have all been invited presenters at the symposium in the past or for 2014. Registration scholarships will enable trainees from other UCs to participate in the 2014 symposium. The workshop and symposium joint reception will build partnerships among UC scientists and regional industry, and will help to communicate the impact of our research on the community. Stakeholder Workshop participants will be charged a registration fee, which will provide funds for future workshops.

Travel for faculty from other UCs to UCSD for workshop and "*Cells to Clinic*" symposium	
(lodging, mileage, and/or airfare) (5 X $400)	$2,000
honoraria for 3 non-UC speakers to present in workshop	900
Food (breakfast, breaks, lunch)	
$30 per person X 40 participants	1,200
networking joint reception for Workshop and Symposium participants	900
miscellaneous (venue charges, A/V, nametags, parking)	1,000
Registration scholarships for students from other UCs to attend the	
"*Cells to Clinic*" symposium (8 X $125)	1,000

Web Portal Expenses
Justification: Funds are requested to develop a low-cost, user-friendly collaborative work environment for participants, based on Google or Microsoft platforms for online document sharing, chat, and email. An additional feature will be secure hosting of large, unpublished datasets with capabilities for password-enabled data sharing. Such an environment is necessary to plan and coordinate collaborative research and grant proposals.

Website and portal development	3,000
Data hosting (SDSC Cloud)	2,000

UNIVERSITY OF CALIFORNIA, DAVIS

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO • SANTA BARBARA • SANTA CRUZ

OFFICE OF RESEARCH

1850 RESEARCH PARK DRIVE, SUITE 300
DAVIS, CALIFORNIA 95618

HARRIS A. LEWIN
VICE CHANCELLOR FOR RESEARCH

TELEPHONE: (530) 754-7764
FAX: (530) 752-7269

July 16, 2013

Office of Research and Graduate Studies
UC Research Opportunity Fund
Office of the President, University of California

RE: UC Research Opportunity Fund Proposal: *"Integrating Circadian Rhythms Research and Outreach to Change the Landscape of Public Health Policy"*

UCOP Research Opportunity Fund Selection Committee Members:

The University of California at Davis strongly supports the attached proposal, originating from the UCSD Center for Chronobiology, to strengthen the system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus multi-investigator grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

Sincerely,

Harris A. Lewin, Ph.D.
Vice Chancellor for Research

/pk

UNIVERSITY OF CALIFORNIA, IRVINE

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

JOHN C. HEMMINGER
VICE CHANCELLOR FOR RESEARCH
OFFICE OF RESEARCH
160 ALDRICH HALL

IRVINE, CALIFORNIA 92697
Phone 949-824-5796 Fax 949-824-2095
JCHEMMIN@UCI.EDU
HTTP://SURFSCI.PS.UCI.EDU

22 July 2013

Vice President Steven Beckwith
Office of Research and Graduate Studies
University of California
Office of the President
1111 Franklin Street, 11th Floor
Oakland, CA 94607

Re: UC-wide clock activities support letter

Dear Vice President Beckwith:

The University of California, Irvine supports the attached proposal, originating from the UCSD Center for Chronobiology, to strengthen the UC system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus, multi-investigator grant proposals. The proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field and will help to engage ties between UC researchers and industry partners.

Sincerely,

John C. Hemminger
Vice Chancellor for Research
Professor of Chemistry

UCLA *Office of the Vice Chancellor for Research*

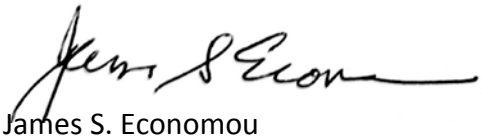
James S. Economou
2147 Murphy Hall
140501
Phone: (310) 825-7943
Fax: (310) 206-6030
Email: jeconomou@conet.ucla.edu

July 15, 2013

Dear UCOP,

The University of California at Los Angeles strongly supports the attached proposal, originating from the UCSD Center for Chronobiology, to strengthen the system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus multi-investigator grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

Cordially,



James S. Economou

UNIVERSITY OF CALIFORNIA

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT

UNIVERSITY OF CALIFORNIA, MERCED
Mailing Address:
P.O. BOX 2039
MERCED, CALIFORNIA 95344
(209) 228-7964
(209) 228-6906 - Fax

July 15, 2013

Vice President Stephen Beckwith
Office of Research and Graduate Studies
University of California
Office of the President
11 Franklin Street
Oakland, CA 94607

Dear Vice President Beckwith;

The University of California at Merced strongly supports the proposal entitled "Integrating Circadian Rhythms Research and Outreach to Change the Landscape of Public Health Policy", originating from the UCSD Center for Chronobiology, to strengthen the system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus multi-investigator grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

Sincerely,

Samuel D. Traina

Dr. Samuel Traina
Professor of Natural Science and Engineering
Vice Chancellor for Research and Economic Development

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

22 July, 2013

The University of California at San Francisco strongly supports the attached proposal, originating from the UCSD Center for Chronobiology, to strengthen the system-wide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus multi-investigator grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

Sincerely,

Louis J. Ptáček, M.D.
Coleman Distinguished Professor of Neurology
Investigator, Howard Hughes Medical Institute

Ying-Hui Fu, Ph.D.
Professor of Neurology

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

BERKELEY • DAVIS • IRVINE • LOS ANGELES • MERCED • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

SANTA BARBARA • SANTA CRUZ

OFFICE OF THE CAMPUS
PROVOST AND
EXECUTIVE VICE CHANCELLOR

1156 High Street
Santa Cruz, California 95064
831-459-3885

July 24, 2013

University of California Research Opportunity Fund Committee
Office of Research and Graduate Studies
University of California
1111 Franklin Street
Oakland, CA 94607

Re: Research Opportunity Fund Proposal: Integrating Circadian Rhythms Research and Outreach to Change the Landscape of Public Health Policy

Dear Committee Members:

The University of California at Santa Cruz strongly supports the attached proposal, originating from the UCSD Center for Chronobiology, to strengthen the systemwide collaboration of circadian rhythms researchers. The proposed efforts will enhance the rates of submission and competitiveness of UC multi-campus, multi-investigator, grant proposals. Moreover, the proposed outreach efforts will help to communicate to the public the impact of research discoveries in the circadian rhythms field, and will help to engage ties between UC researchers and industry partners.

Sincerely,

Alison Galloway
Campus Provost and
Executive Vice Chancellor

cc: Vice Chancellor for Research Brandt

Appendix E

Public Service and Outreach (2009-2013)

	Presenter	Venue	Topic	Audience
1	Stu Brody	UCSD Emeritis Assoc.	Biological Rhythms	60
2	Stu Brody	OSHER (Senior Learners)	Biological Rhythms	60
3	Stu Brody	Univ. San Diego OSHER	Biological Clocks	100
4	Stu Brody	12:30 Club - La Jolla Country Club	Biological Clocks	60
5	Stu Brody	Newcomers Club - La Jolla Country Club	Biological Clocks	80
6	Stu Brody	La Jolla Rotary Club	Biological Clocks	50
7	Dan Kripke	TV - US Networks ABC	Sleeping Pills	
8	Dan Kripke	Radio - US Networks	Sleeping Pills	
9	Dan Kripke	Canadian Broadcasting	Sleeping Pills	
10	Dan Kripke	BBC Radio	Sleeping Pills	
11	Carrie Partch	UC Santa Cruz - Women in Science & Engineering	Science on Top	100
12	Carrie Partch	Scott's Valley Science & Technology Club	Biological Rhythms	50
13	Andy LiWang	Evening Dinner with Scientist Programs	Higher Edu Science	50
14	William Joiner	NARSAD	Sleep / Chronobiology	30
15	William Joiner	San Diego High School URM Students	Brain Fair	50
16	Pam Mellon	Magee-Womens Research Institute	Clocks / Endocrine	30
17	Susan Golden	Pt. Loma Nazarene University	Perspectives on Science	50
18	Susan Golden	La Jolla Women in Science and Technology	Perspectives on Science	30
19	Susan Golden	U.T. Pan American	HESTEC science symposium	200
20	Susan Golden	Torrey Pines High School	Careers in Science	15
21	Barbara Parry	St. Paul's Anglican Cathedral, San Diego	Hormones/Rhythms/Blues	50
22	S. Ancoli-Israel	UCSD - Women in Science & Engineering	Sleep / Work	30
23	S. Ancoli-Israel	Health Wellness Symposium	Insomnia	30
24	S. Ancoli-Israel	Daytimers Enrichment Program for Adults, SD	Sleep	25
25	S. Ancoli-Israel	San Diego Cancer Care Group	Sleep	30
26	S. Ancoli-Israel	The Stein Institute for aging, San Diego	Cancer / Sleep	40
27	S. Ancoli-Israel	The Stein Institute for aging, San Diego	Aging / Sleep	30
28	S. Ancoli-Israel	Better Breather's Club, San Diego	Insomnia / Sleep	30
29	S. Ancoli-Israel	San Diego Psychological Society	Insomnia / Sleep	30
30	S. Ancoli-Israel	SD Union-Tribune Aging Seminar	Aging / Sleep	30
31	S. Ancoli-Israel	SD Union-Tribune Aging Seminar	Aging / Sleep	30
32	S. Ancoli-Israel	NPR AM edition with Patricia Neighmond	Sleep	
33	S. Ancoli-Israel	San Deigo Police Department	Shiftwork	50
34	S. Ancoli-Israel	UCSD Library Lecture Series	Insomnia	30
35	S. Ancoli-Israel	PKPBS Producers Club	Sleep	
36	S. Ancoli-Israel	Community Clinics Webinar	Insomnia	
37	S. Ancoli-Israel	Qualcomm	Shiftwork	50
38	S. Ancoli-Israel	Qualcomm	Insomnia	50
39	S. Ancoli-Israel	Qualcomm	Insomnia	50
40	Colleen Doherty	Nifty-Fifty -Univirstiy City High School	GMO genetically modified organism	45
41	Colleen Doherty	Nifty-Fifty -Univirstiy City High School	Clocks	60

Diversity Contributions (2009-2013)

	CCB Member	Program	Status / Name
1	Susan Golden	Faculty Equity Advisor, Division of Biological Science, UCSD	
2	Susan Golden	UC leadership Excellence	Undergraduate Student - Yohan Penny
3	Susan Golden	UC leadership Excellence	Undergraduate Student - Darae June
4	Susan Golden	STARS Program	MS Student - Guadalope Aguirre
5	Susan Golden	STARS Program	Undergraduate Student - Abel Duarte
6	Susan Golden	UC LEADS symposium poster judge	UC-wide conference Santa Cruz
7	Susan Golden	Hispanic Engineering, Science, & Technology (HESTEC)	Speaker at conference Univ. of TX - Pan American
8	William Joiner	STARS Program	Danielle Perry
9	A. Kauffman	Initiative for Maximizing Student Diversity Society	Graduate Student - Azim Khan
10	A. Kauffman	Initiative for Maximizing Student Diversity Society	Undergraduate Researcher - Christian Garcia
11	Carrie Partch	MARC - Minority Access to Research Program	Annual hosting of students
12	Carrie Partch	ACCESS	Annual hosting of students
13	David K. Welsh	Mentoring	Undergraduate student Kevin Kinyanjuwi from Kenya
14	Andy LiWang	American Chemical Society - SEED Program	Annual host of High School Students
15	Pam Mellon	Mentor Award	BMS PhD Student - Sol Reyna
16	Pam Mellon	Mentor Award	Research Student - Adaku Uzo-Okereke
17	Pam Mellon	Mentor Award	BMS PhD Student - Navarre Gutierrez-Reed
18	Colleen Doherty	UCSD - Biological Sciences	First generation URM college students
19	Susan Cohen	UC President's Postdoctoral Fellowship	Fellowship
20	Dmitri Nusinow	UC President's Postdoctoral Fellowship	Fellowship

STAFFING

ADVISORY COMMITTEE

(16)

First Name	Last Name	Home Department	Appt. Date	End Date
Joseph	Amaral	Corporate Office of Science & Technology, Johnson & Johnson	05/01/2011	12/01/2011
Sonia	Ancoli-Israel	PSYCHIATRY	07/01/2009	
Gene	Block	UCLA, Psychiatry and Biobehavioral Sciences	05/01/2011	
Stuart	Brody	DIV BIOLOGICAL	07/01/2009	
Colleen	Doherty	DIV BIOLOGICAL	07/01/2012	
Susan	Golden	DIV BIOLOGICAL	07/01/2009	
Michael	Gorman	PSYCHOLOGY	07/01/2009	
Alexander	Hoffmann	CHEMISTRY	05/01/2011	
Steve	Kay	Univ of Southern California	07/01/2012	
Michael	McCarthy	Department of Psychiatry	05/01/2011	06/30/2012
Margaret	Moline	Purdue Pharma L.P.	09/01/2012	
Satchidananda	Panda	DIV BIOLOGICAL	07/01/2009	
Joseph	Takahashi	Univ. Texas Southwestern, Neurosciences	05/01/2011	
David	Welsh	PSYCHIATRY	07/01/2009	
Michael	Young	Rockefeller University, Academic Affairs and Genetics	05/01/2011	
Phyllis	Zee	Northwestern Univ., Neurobiology	05/01/2011	

DIRECTORS

(3)

First Name	Last Name	Home Department	Appt. Date	Appt. End
Stuart	Brody	Biological Sciences	7/1/2009	6/30/2010
Susan	Golden	Biological Sciences	7/1/2009	6/30/2014
David	Welsh	Psychiatry	7/1/2010	6/30/2014

AFFILIATED FACULTY

(44)

First Name	Last Name	Home Department	Affiliation Date	End Date
Joseph	Amaral	Corporate Office of Science & Technology, Johnson & Johnson	05/01/2011	
Sonia	Ancoli-Israel	PSYCHIATRY	07/01/2009	
William	Bechtel	PHILOSOPHY	07/01/2009	
Gene	Block	UCLA, Physiological Science	05/01/2011	
Stuart	Brody	DIV BIOLOGICAL	07/01/2009	
Joanne	Chory	DIV BIOLOGICAL	07/01/2009	
Colleen	Doherty	DIV BIOLOGICAL		
Sean	Drummond	PSYCHIATRY	07/01/2009	
Jeffrey	Elliott	PSYCHIATRY	07/01/2009	
Ronald	Evans	DIV BIOLOGICAL	07/01/2009	
Sylvia	Evans	SCH PHARM/PHARM	07/01/2009	
Susan	Golden	DIV BIOLOGICAL	07/01/2009	
Michael	Gorman	PSYCHOLOGY	07/01/2009	
Ralph	Greenspan	KAVLI INST BRAI	07/01/2009	
Jeff	Hasty	DIV BIOLOGICAL	07/01/2009	
Alexander	Hoffmann	CHEMISTRY	05/01/2011	
Andrew	Huberman	NEUROBIOLOGY	01/01/2011	
Terence	Hwa	PHYSICS	07/01/2009	
William	Joiner	PHARMACOLOGY	07/01/2009	
Alexander	Kauffman	REPRO MED	07/01/2009	
Steve	Kay	Univ of Southern California	07/01/2012	
John	Kelsoe	PSYCHIATRY	09/01/2011	
Daniel	Kripke	PSYCHIATRY	07/01/2009	
Katja	Lamia	TSRI, Chemical Physiology and Molecular Medicine	09/01/2010	
Andy	LiWang	UC Merced, Quantitative and Systems Biology	09/01/2010	
Michael	McCarthy	Department of Psychiatry	05/01/2011	
Sara	Mednick	PSYCHIATRY	07/01/2009	
Pamela	Mellon	REPRO MED	07/01/2009	
Margaret	Moline	Purdue Pharma L.P.		
Marc	Montminy	DIV BIOLOGICAL	07/01/2009	
Caroline	Nievergelt	PSYCHIATRY	05/01/2011	
Satchidananda	Panda	DIV BIOLOGICAL	07/01/2009	
Barbara	Parry	PSYCHIATRY	07/01/2009	
Carrie	Partch	UC Santa Cruz	07/01/2012	
Jose	Pruneda-Paz	DIV BIOLOGICAL	07/01/2009	
Timothy	Rickard	PSYCHOLOGY	07/01/2009	
Nikolai	Rulkov	BioCircuits Institute	11/01/2010	
Terry	Sejnowski	DIV BIOLOGICAL	09/01/2010	

Nicholas	Spitzer	DIV BIOLOGICAL	05/01/2012	
Joseph	Takahashi	Univ. Texas Southwestern, Neurosciences	05/01/2011	
Lev	Tsimring	BioCircuits Institute	07/01/2010	
David	Welsh	PSYCHIATRY	07/01/2009	
Michael	Young	Rockefeller University, Academic Affairs and Genetics	05/01/2011	
Phyllis	Zee	Northwestern Univ., Neurobiology	05/01/2011	

RESEARCHERS

(21)

First Name	Last Name	Payroll Title	Appt. Date	End Date
Adele	Abrahamsen	Project Scientist (Non-Business/Engineering)	07/01/2009	
Manuel	Campos	Assistant Research Scientist (Non-Business/Engineering)	04/27/2011	
Amandine	Chaix	Associate Research Scientist (Non-Business/Engineering)	09/20/2011	
Anne-Laure	Huber	Associate Research Scientist (Non-Business/Engineering)	01/06/2012	
Earl	Kang	Associate Research Scientist (Non-Business/Engineering)	07/05/2011	
Takeo	Katsuki	Assistant Project Scientist (Non-Business/Engineering)	07/01/2009	
Sheena	Keding	Research Scientist (Non-Business/Engineering)	07/01/2009	06/30/2012
Claudia	Lainscsek	Assistant Project Scientist (Non-Business/Engineering)	09/29/2011	
Susan	Lawton	Project Scientist (Non-Business/Engineering)	02/19/2010	11/01/2012
Hiep	Le	Assistant Research Scientist (Non-Business/Engineering)	07/01/2009	
Lee	Lichter	Assistant Research Scientist (Non-Business/Engineering)	01/06/2012	
Lianqi	Liu	Associate Project Scientist (Non-Business/Engineering)	07/01/2009	
Jeanne	Maglione	Assistant Specialist	07/01/2009	
Genevieve	McConnell	Associate Research Scientist (Business/Engineering)	01/09/2013	
Elizabeth	McDevitt	Research Scientist (Non-Business/Engineering)	04/27/2011	
Charles	Meliska	Associate Project Scientist (Non-Business/Engineering)	07/01/2009	
Loki	Natarajan	Associate Specialist	07/01/2009	
Stephanie	Papp	Research Scientist (Non-Business/Engineering)	09/01/2010	
Stephanie	Ravelo	Associate Research Scientist (Non-Business/Engineering)	07/05/2011	10/01/2012
Lexie	Wang	Assistant Research Scientist (Non-Business/Engineering)	09/28/2011	
Susanna	Wang	Assistant Specialist	07/01/2009	10/01/2012

POST DOCS

(54)

First Name	Last Name	Payroll Title	Appt. Date	End Date
Dawn	Adin	Postdoctoral Scholar-Employee	07/01/2009	09/01/2011

Sophie	Aimon	Postdoctoral Scholar-Employee	09/27/2012	
Kenyon	Applebee	Postdoctoral Scholar-Fellow	06/30/2011	
Bridget	Baumgartner	Postdoctoral Scholar-Employee	07/01/2009	
Stephen	Beesley	Postdoctoral Scholar-Employee	04/12/2011	
Katia	Bonaldi	Postdoctoral Scholar-Employee	07/05/2011	
Juliana	Bordowitz	Postdoctoral Scholar-Fellow	07/01/2009	
Bart	Borek	Postdoctoral Scholar-Employee	01/03/2012	
Joseph	Boyd	Postdoctoral Scholar-Employee	10/11/2011	
Melissa	Brayman	Postdoctoral Scholar-Employee	06/30/2011	01/03/2012
John	Buchner	Postdoctoral Scholar-Employee	07/01/2009	09/01/2011
Marcela	Carvallo-Pinto	Postdoctoral Scholar-Employee	07/01/2009	10/01/2012
You	Chen	Postdoctoral Scholar-Employee	02/19/2013	
Brenda	Chow	Postdoctoral Scholar-Employee	04/27/2011	10/01/2012
Susan	Cohen	Postdoctoral Scholar-Fellow	07/01/2009	
Andriy	Didovyk	Postdoctoral Scholar-Employee	12/13/2011	
Stacie	Dilks	Postdoctoral Scholar-Employee	12/28/2011	10/01/2012
Luciano	DiTacchio	Postdoctoral Scholar-Employee	07/01/2009	06/30/2012
Colleen	Doherty	Postdoctoral Scholar-Employee	07/01/2009	
Erin	Dunn	Postdoctoral Scholar-Employee	06/29/2011	11/28/2011
Joshua	Gendron	Postdoctoral Scholar-Employee	07/01/2009	
Christine	Glidewell-Kenney	Postdoctoral Scholar-Employee	06/30/2011	
Megumi	Hatori	Postdoctoral Scholar-Employee	07/01/2009	
Anne	Helfer	Postdoctoral Scholar-Employee	07/01/2009	05/03/2012
Tsuyoshi	Hirota	Postdoctoral Scholar-Employee	07/01/2009	
Hanne	Hoffmann	Postdoctoral Scholar-Employee	06/30/2011	
Meng	Jin	Postdoctoral Scholar-Employee	09/28/2012	
Sabine	Jordan	Postdoctoral Scholar-Employee	06/29/2011	
Minsu	Kim	Postdoctoral Scholar-Employee	07/01/2009	
Yong Ick	Kim	Postdoctoral Scholar-Fellow	07/01/2009	
Elsebeth	Kolmos	Postdoctoral Scholar-Employee	07/01/2009	
Dominic	Landgraf	Postdoctoral Scholar-Employee	01/06/2012	
Andrea	Manzo	Postdoctoral Scholar-Employee	09/27/2012	
William	Mather	Postdoctoral Scholar-Employee	07/01/2009	
Faruck	Morcos	Postdoctoral Scholar-Employee	07/01/2010	
Ludovic	Mure	Postdoctoral Scholar-Employee	03/29/2011	
Dawn	Nagel	Postdoctoral Scholar-Employee	07/01/2009	
Marian	Nohales Zafra	Postdoctoral Scholar-Employee	05/11/2012	10/01/2012
Dmitri A	Nusinow	Postdoctoral Scholar-Employee	07/01/2009	06/01/2013
Henry	Orff	Postdoctoral Scholar-Fellow	07/01/2009	

Mariko	Sawa	Postdoctoral Scholar-Employee	07/01/2009	10/01/2012
Erica	Schoeller	Postdoctoral Scholar-Employee	08/30/2013	
Glen	Seidner	Postdoctoral Scholar-Employee	02/09/2011	
Sheila	Semaan	Postdoctoral Scholar-Employee	07/01/2009	
Ryan	Shultzaberger	Postdoctoral Scholar-Employee	07/01/2009	
Ryan	Simkovsky	Postdoctoral Scholar-Employee	04/26/2011	
Tim	Sonntag	Postdoctoral Scholar-Employee	07/05/2011	10/01/2012
Gabriele	Sulli	Postdoctoral Scholar-Employee	11/30/2012	
Arnaud	Taton	Postdoctoral Scholar-Employee	04/26/2011	
Francisco	Uribe Romeo	Postdoctoral Scholar-Employee	11/30/2012	
Meilin	Wu	Postdoctoral Scholar-Employee	07/01/2009	
Huimin	Xie	Postdoctoral Scholar-Employee	06/30/2011	
Amir	Zarrinpar	Postdoctoral Scholar-Employee	04/27/2011	
Xuan	Zhao	Postdoctoral Scholar-Employee	07/11/2013	

STAFF

(27)

First Name	Last Name	Payroll Title	Start Date	End Date
Anna	Bree	Staff Research Assoc II	07/01/2009	09/01/2011
Kellie Breen	Church	_____Assistant I	06/30/2011	
Daniel	Clark	_____Assistant I	07/01/2009	
Sangeeta	Dhamija	Staff Research Assoc II	07/01/2009	
Tanja	Diemer	Staff Research Assoc II	07/27/2011	
Elizabeth	Hamilton	Staff Research Assoc II	07/01/2009	10/01/2012
Stacey	Huynh	Assistant III	11/18/2009	09/18/2011
Darae	Jun	Assistant Iv	04/26/2011	08/10/2013
Joshua	Kim	Staff Research Assoc II	06/30/2011	
Jonathan	Lam	Assistant III	04/26/2011	11/10/2011
Yvonne	Lee	Assistant III	03/12/2013	
Sunamita	Leming	Staff Research Assoc II	06/30/2011	
Ana M.	Lopez	Staff Research Assoc II	07/01/2009	
Patricia	Magallanez	Admin. Specialist	01/20/2010	99/99/9999
Luis Fernando	Martinez	Staff Research Assoc II	07/01/2009	
Jason	Meadows	Staff Research Assoc II	06/30/2011	
Natalia	Navarro Moreno	Staff Research Assoc II	07/05/2011	10/01/2012
Takako	Noguchi	_____Assistant I	07/01/2009	
Mark	Paddock	_____Assistant I	11/11/2011	

Terry	Peters	Management Services Officer II	7/1/2009	99/99/9999
Lily	Quiroz	Staff Research Assoc I	07/01/2009	11/01/2012
Diane	Sorenson	Staff Research Assoc I	07/01/2009	
Jonathan	Sun	Laboratory Asst II	03/18/2013	
Blake	Trial	Staff Research Assoc I	07/01/2009	
Jenee	Wagner	_____Assistant I	07/01/2009	
Connie	Wang	Staff Research Assoc II	07/01/2009	09/01/2011
Heather (Hongbing)	Wei	Staff Research Assoc II	01/07/2012	

STUDENTS

(49)

First Name	Last Name	Home Department	Status	Begin Date	End Date
Ann	Atwood	Div Biological Sciences	Graduate Student Volunteer	07/01/2009	10/01/2012
Julie	Avanzino	Department of Psychiatry	Undergraduate	01/07/2012	
Daniel	Burnston	Philosophy	Graduate Student Volunteer	07/29/2011	
Jason	Chen	Div Biological Sciences	Undergraduate	06/29/2011	
Natalie	Cookson	BioCircuits Institute	Graduate Student Volunteer	07/01/2009	
Anthony	Daulo	Div Biological Sciences	Undergraduate	07/01/2009	12/30/2012
Barrett	Deris	Division of Physical Sciences	Graduate Student Volunteer	07/01/2009	
Keval	Desai	Div Biological Sciences	Undergraduate	04/26/2011	
Spencer	Diamond	Div Biological Sciences	Graduate Student Volunteer	04/26/2011	
Malcom	Fernandes	Psychiatry	Undergraduate	06/29/2011	
Mike	Ferry	BioCircuits Institute	Graduate Student Volunteer	07/01/2009	
Shubhroz	Gill	Salk Institute	Graduate Student Volunteer	07/01/2009	
Paula	Gitis	Psychiatry	Undergraduate	01/27/2011	10/01/2012
Andrew	Gross	Bioinformatics Department	Undergraduate	01/07/2012	10/01/2012
Elizabeth	Harrison	Psychology	Graduate Student Volunteer	07/01/2009	
Michelle	Hoang	Div Biological Sciences	Undergraduate	04/26/2011	
Polly	Huang	Reproductive Medicine	Graduate Student Volunteer	06/30/2011	
Jeremy	Johnson	Department of Psychology	Undergraduate	02/07/2012	
Darae	Jun	Div Biological Sciences	Undergraduate	04/26/2011	
Shannon	Kang	Div Biological Sciences	Undergraduate	06/29/2011	
Azim	Khan	Psychology & Reproductive Medicine	Graduate Student Volunteer	07/01/2009	
David	Kochman	Pharmacology	Graduate Student Volunteer	06/29/2011	
Martin	Kolnik	Bioengineering	Graduate Student Volunteer	07/01/2009	
Stephen	Leung	Div Biological Sciences	Undergraduate	04/26/2011	
Joyce	Luke	Bioengineering	Graduate Student Volunteer	07/01/2009	

Zachary	Marnoy	Department of Psychiatry	Undergraduate	01/24/2012	
Ben	McKenna	Psychiatry	Graduate Student Volunteer	07/01/2009	
Octavio	Mondragon	Bioengineering	Graduate Student Volunteer	07/01/2009	
Ariel	Neikrug	Psychiatry	Graduate Student Volunteer	07/01/2009	02/30/2013
Jeff	Nelson	Div Biological Sciences	Graduate Student Volunteer	07/01/2009	06/01/2013
Matthew	Poling	Reproductive Medicine	Graduate Student Volunteer	07/01/2009	
Pagkapol	Pongsawakul	Div Biological Sciences	Graduate Student Volunteer	07/01/2009	
Qays	Poonawala	Department of Psychology	Undergraduate	11/22/2011	
Arthur	Prindle	Bioengineering	Graduate Student Volunteer	07/01/2009	
Evan	Raiewski	Psychology	Graduate Student Volunteer	07/01/2009	
Ivan	Razinkov	Bioengineering	Graduate Student Volunteer	07/01/2009	
Jim	Robinson	Pharmacology	Graduate Student Volunteer	06/29/2011	
Jangir	Selimkhanov	Bioengineering	Undergraduate	07/01/2009	
Benjamin	Sheredos	Philosophy	Graduate Student Volunteer	07/01/2009	
Susan	Sinning	Psychology	Graduate Student Volunteer	07/01/2009	
Ruichen	Sun	Kavli Inst for Brain & Mind	Graduate Student Volunteer	09/27/2012	
Karen	Tang	Div Biological Sciences	Undergraduate	06/29/2011	
Brooks	Taylor	Bioengineering	Graduate Student Volunteer	07/01/2009	
Andrewston	Ting	Div Biological Sciences	Undergraduate	06/29/2011	
Minh	Tong	Kavli Inst for Brain & Mind	Undergraduate	07/01/2009	
Federico	Unglaub	Div Biological Science	Graduate Student Paid	11/30/2012	
Shabnam	Vahidpour	Department of Pharmacology	Graduate Student Volunteer	01/07/2012	
Emily	Witham	Reproductive Medicine	Graduate Student Volunteer	06/30/2011	11/01/2012
Simone	Yassear	Div Biological Sciences	Undergraduate	06/29/2011	

VISITORS

(9)

First Name	Last Name	Home Institution	Begin Date	End Date
Rozi	Andretic	Croatia	03/12/2012	
Javier	Espinosa	Universidad de Alicante - Spain	06/05/2013	09/02/2013
Gena	Glickman	Naval Health Research Center (NHRC)	05/14/2013	
Maria Jose	Iglesias Sanchez	Centro Universitario De Plasencia, Spain	06/18/2012	09/30/2012
Yohko	Kitayama	Nagoya University, Japan	10/01/2010	11/30/2010
Martin	Mulligan	Memorial University of Newfoundland, Canada	03/01/2012	03/20/2012
Michael	Rae	University of Houston	01/01/2011	06/01/2011
Suzette	Ruiz	Volunteer with Dept of Psychiatry, UCSD	06/29/2011	
Jun	Zhang	Xiamen University, China	01/24/2012	02/24/2013

ORGANIZATION CHART

UC San Diego Center for Chronobiology
Organization Chart

PPS Head Count

	2011	2012	2013
Career Staff	2	2	2
Graduate Students	2	2	2
Other - In Residence	0	0	0
Other Academics	0	0	1
Postdoc Fellow/Postdoc Grad Res	5	8	7
Regular Faculty	0	0	0
Researchers	0	0	1
TA/Reader/Tutor	0	0	0
Temp Faculty	0	0	0
Temporary Staff	1	3	5
Total	**10**	**15**	**18**

FACILITIES

	2010	2011	2012	2013
Academic Office	755	755	755	
Administrative Office	281	281	281	281
Conference Room	270	270	270	270
Research Lab / Studio Service	454	454	454	
Research Laboratory / Studio	7,657	7,657	7,657	
Research Office	2,170	2,170	2,170	
Research Office Service	195	195	195	
Study Room	786	786	786	
Totals (assignable sq. ft.)	**551**	**12,568**	**12,568**	**12,568**

INCOME

Balance Forward

	2011	2012	2013	3 year avg.

418833 —*Oru-Center For Chronobiology*	16,514	370,048	259,260	**215,274**
Total	**16,514**	**370,048**	**259,260**	**$661,443**

Permanent Budget

	2010	2011	2012	2013	Total
418833 —*Oru-Center For Chronobiology*	85,000	85,000	86,350	63,177	**319,527**
Total	**85,000**	**85,000**	**86,350**	**63,177**	**$319,527**

Transfers

	2013	Total
418833	99,100	**99,100**
Total	**99,100**	**$99,100**

Contract and Grant Allocations - Unit Code: 432

Direct and Indirect Costs by Year - Unit Code: 432

	Transactions	Direct	Indirect	Total
2013	9	871,841	399,569	**1,271,410**
2012	1	200,000	109,750	**309,750**
2011	1	200,000	109,000	**309,000**
2010	0	0	0	**0**
Totals	**11**	**1,271,841**	**618,319**	**$ 1,890,160**

Sponsor Category Totals - Unit Code: 432

	Transactions	Direct	Indirect	Total
Federal	10	1,221,841	618,319	**1,840,160**
Other Charitable	1	50,000	0	**50,000**
Interest Group	0	0	0	**0**
Higher Education	0	0	0	**0**
UC Campus	0	0	0	**0**
Foundation	0	0	0	**0**

	0	0	0	**0**
Other Government	0	0	0	**0**
Business	0	0	0	**0**
State	0	0	0	**0**
DOE Labs	0	0	0	**0**
Totals	**11**	**1,271,841**	**618,319**	**$ 1,890,160**

User Reported Income

	418833	**Total**
CEC contract-fund 18797A - 2012	50,000	**50,000**
CEC contract-fund 18797A - 2013	36,000	**36,000**
DOE grant-fund 28475A - 2011	154,500	**154,500**
DOE grant-fund 28475A - 2012	154,750	**154,750**
DOE grant-fund 28475A - 2013	70,544	**70,544**
Fellowships	0	**0**
Fellowships - 2011	75,000	**75,000**
Fellowships - 2012	102,090	**102,090**
Gifts	0	**0**
Gifts - 2011	52,810	**52,810**
Gifts - 2012	17,390	**17,390**
Gifts - 2013	6,580	**6,580**
Life Technologies contract-fund 87925A - 2012	143,717	**143,717**
Other income	0	**0**
Registration fees - 2012	3,733	**3,733**
Registration fees - 2013	8,829	**8,829**
Service Agreements	0	**0**
Service Agreements - 2011	0	**0**
Service Agreements - 2012	0	**0**
Totals	**875,943**	**$ 875,943**

EXPENSE

Expense Summary

	418833	**Total**
Academic Salaries	735,397	**735,397**
Benefits	352,688	**352,688**

Equipment	57,182	**57,182**
General Assistance	31,489	**31,489**
Indirect Costs	607,417	**607,417**
Recharge Income	0	**0**
Staff Salaries	331,244	**331,244**
Supplies	336,645	**336,645**
Transfers In	3,676	**3,676**
Travel	86,887	**86,887**
Totals	**2,542,625**	**$ 2,542,625**

Expense By Program

	2010	**2011**	**2012**	**2013**	**Total**
Core Account Research	110,499	420,868	940,785	1,138,130	**2,610,281**
General Instruction	0	0	1,263	(1,612)	**(349)**
Totals	**110,499**	**420,868**	**942,048**	**1,136,518**	**$2,609,932**

EVENTS

SEMINARS (59)

Title: The Transcriptional Repressor DEC2 Regulates Sleep Length in Mammals
Date: 2009-10-01
Presenter(s): Dan Kripke
Location: UCSD Liechtag, 2A05

Title: Diurnally Entertained Anticipatory Behavior in Archaea
Date: 2009-10-15
Presenter(s): Colleen Doherty
Location: Leichtag 2A05

Title: Dissociation of Circadian and Light Inhibition of Melatonin Release Through Forced Desynchronization in the Rat
Date: 2009-11-05
Presenter(s): Gena Glickman
Location: Leichtag 2A05

Title: Cyanobacterial Daily Life with Kai-based Circadian and Diurnal Genome-Wide Transcriptional Control in Synechococcus elongatus

Date: 2009-11-19
Presenter(s): John Buchner
Location: Leichtag 2A05

Title: AMPK Regulates the Circadian Clock by Cryptochrome Phosphorylation and Degradation
Date: 2009-12-03
Presenter(s): Yhew Pongsawakul
Location: Leichtag 2A05

Title: Circadian Rhythms in Neurospora crassa: Dynamics of the Clock Component Frequency Visualized Using a Fluorescent Reporter
Date: 2009-12-17
Presenter(s): Michael Ferry
Location: Leichtag 2A05

Title: Correlation with Behavioral Activity and Rest Implies Circadian Regulation by SCN Neuronal Activity Levels
Date: 2010-01-07
Presenter(s): Michael Gorman
Location: Leichtag 2A05

Title: The Implications of Multiple Circadian Clock Origins
Date: 2010-01-21
Presenter(s): Ralph Greenspan
Location: Leichtag 2A05

Title: Millisecond Light Pulses Make Mice Stop Running, then Display Prolonged Sleep-Like Behavior in the Absence of Light
Date: 2010-02-04
Presenter(s): Jeff Elliott
Location: Leichtag 2A05

Title: Elevated ATPase Activity of KaiC Applies a Circadian Checkpoint on Cell Division in Synechococcus elongatus
Date: 2010-02-18
Presenter(s): Guogang Dong
Location: Leichtag 2A05

Title: Small-World Network Models of Intercellular Coupling Predict Enhanced Synchronization in the Suprachiasmatic Nucleus
Date: 2010-03-04
Presenter(s): Bill Bechtel
Location: Leichtag 2A05

Title: The methamphetamine-sensitive circadian oscillator does not employ canonical clock genes
Date: 2010-04-04
Presenter(s): Mike McCarthy
Location: Leichtag 2A05

Title: Animal cryptochromes mediate magnetoreception by an unconventional photochemical mechanism
Date: 2010-04-15
Presenter(s): Ann Atwood
Location: Leichtag 2A05

Title: Genetic suppression of the circadian Clock mutation by the melatonin biosynthesis pathway
Date: 2010-05-06
Presenter(s): Evan Raiewski
Location: Leichtag 2A05

Title: PSEUDO-RESPONSE REGULATORS 9, 7, and 5 Are Transcriptional Repressors in the Arabidopsis Circadian Clock
Date: 2010-05-20
Presenter(s): Colleen Doherty
Location: Leichtag 2A05

Title: Circadian Clock Gene Bmal1 Is Not Essential; Functional Replacement with its Paralog, Bmal2
Date: 2010-06-03
Presenter(s): Takako Noguchi
Location: Leichtag 2A05

Title: Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes
Date: 2010-10-07
Presenter(s): Katja Lamia
Location: AP&M, 2840

Title: Widespread Changes in Synaptic Markers as a Function of Sleep and Wakefulness in Drosophila
Date: 2010-10-21
Presenter(s): Bill Joiner
Location: AP&M, 2840

Title: Enhanced phase and period control of mammalian circadian rhythms with manipulations of rhythm waveform
Date: 2010-11-04
Presenter(s): Jeff Elliott
Location: AP&M, 2840

Title: Dual KaiC-based oscillations constitute the circadian system of cyanobacteria
Date: 2010-11-18
Presenter(s): Yohko Kitayama
Location: AP&M, 2840

Title: 1. Reproductive biology of female Bmal1 null mice. 2. Impaired Steroidogenesis and Implantation Failure in Bmal1-/- Mice.
Date: 2010-12-02
Presenter(s): Dan Clark
Location: AP&M, 2840

Title: Oscillations in supercoiling drive circadian gene expression in cyanobacteria
Date: 2010-12-16
Presenter(s): John Buchner
Location: AP&M, 2840

Title: Perinatal photoperiod imprints the circadian clock
Date: 2011-01-06
Presenter(s): Michael Gorman
Location: AP&M, 2840

Title: Three major output pathways from the KaiABC-based oscillator cooperate to generate robust circadian kaiBC expression in cyanobacteria
Date: 2011-01-20
Presenter(s): Ralph Greenspan
Location: AP&M, 2840

Title: Noninvasive method for assessing the human circadian clock using hair follicle cells
Date: 2011-02-03
Presenter(s): Yhew Pongsawakul
Location: AP&M, 2840

Title: Temperature as a universal resetting cue for mammalian circadian oscillators
Date: 2011-03-03
Presenter(s): Takako Noguchi
Location: AP&M, 2840

Title: Photoadaptation in Neurospora by Competitive Interaction of Activating and Inhibitory LOV Domains
Date: 2011-03-17
Presenter(s): Dmitri A. Nusinow

Location: AP&M, 2840

Title: Delay in Feedback Repression by Cryptochrome 1 Is Required for Circadian Clock Function
Date: 2011-04-07
Presenter(s): Luciano DiTacchio
Location: AP&M, 2840

Title: New ideas from an old "timer"
Date: 2011-04-21
Presenter(s): Stu Brody
Location: AP&M, 2840

Title: Light-Driven Changes in Energy Metabolism Directly Entrain the Cyanobacterial Circadian Oscillator
Date: 2011-05-12
Presenter(s): Julie Bordowitz
Location:

Title: Specific Role of VTA Dopamine Neuronal Firing Rates and Morphology in the Reversal of Anxiety-Related, but not Depression-Related Behavior in the Clock?19 Mouse Model of Mania
Date: 2011-05-19
Presenter(s): Mandy Sinning
Location:

Title: A blind circadian clock in cavefish reveals that opsins mediate peripheral clock photoreception
Date: 2011-10-05
Presenter(s): David Welsh
Location: AP&M, 2840

Title: Flexibility of the C-terminal, or CII, ring of KaiC governs the rhythm of the circadian clock of cyanobacteria
Date: 2011-10-19
Presenter(s): Yong-Ick Kim
Location: AP&M, 2840

Title: Development, maturation, and necessity of transcription factors in the mouse suprachiasmatic nucleus
Date: 2011-11-02
Presenter(s): Dan Clark
Location: AP&M, 2840

Title: Evolutionary principles of design in the cyanobacterial clock

Date: 2011-11-16
Presenter(s): Rama Ranhanathan
Location: AP&M, 2840

Title: The period of the circadian oscillator is primarily determined by the balance between casein kinase 1 and protein phosphatase 1
Date: 2011-12-07
Presenter(s): Stephen Beesley
Location: AP&M, 2840

Title: Tuning the mammalian circadian clock: robust synergy of two loops
Date: 2012-01-04
Presenter(s): Bill Bechtel
Location: AP&M, 2840

Title: Timing of plant immune responses by a central circadian regulator
Date: 2012-01-18
Presenter(s): Anne Helfer
Location: AP&M, 2840

Title: A molecular mechanism for circadian clock negative feedback
Date: 2012-02-01
Presenter(s): Yhew Pongsawakul
Location: AP&M, 2840

Title: NaV1.1 channels are critical for intercellular communication in the suprachiasmatic nucleus and for normal circadian rhythms
Date: 2012-03-07
Presenter(s): Takako Noguchi
Location: AP&M, 2840

Title: Arabidopsis circadian clock protein, TOC1, is a DNA-binding transcription factor
Date: 2012-03-21
Presenter(s): Joshua Gendron
Location: AP&M, 2840

Title: Circadian transcriptional regulation by the posttranslational oscillator without de novo clock gene expression in Synechococcus
Date: 2012-04-19
Presenter(s): Susan Cohen
Location: AP&M, 2840

Title: Two papers will be presented: A molecular switch for photoperiod responsiveness in mammals AND Acute induction of Eya3 by late-night light stimulation triggers TSHbeta expression in photoperiodism
Date: 2012-05-03
Presenter(s): Dan Kripke
Location: AP&M, 2840

Title: Phase-dependent generation and transmission of time information by the KaiABC circadian clock oscillator through SasA-KaiC interaction in cyanobacteria
Date: 2012-05-17
Presenter(s): Julie Bordowitz
Location: AP&M, 2840

Title: Nature paper about evolutionary conservation of peroxiredoxin rhythms
Date: 2012-06-07
Presenter(s): Tanja Diemer
Location: AP&M, 2840

Title: Circadian rhythm of redox state regulates excitability in suprachiasmatic nucleus neurons
Date: 2012-10-04
Presenter(s): Takako Noguchi
Location:

Title: Rhythmic ring?ring stacking drives the circadian oscillator clockwise
Date: 2012-10-18
Presenter(s): Yong-Ick Kim
Location:

Title: Circadian-related heteromerization of adrenergic and dopamine D(4) receptors modulates melatonin synthesis and release in the pineal gland
Date: 2012-11-04
Presenter(s): Dominic Landgraf
Location:

Title: Ultraviolet light provides a major input to non-image-forming light detection in mice
Date: 2012-12-06
Presenter(s): Michael Gorman
Location:

Title: Specificity and pleiotropy in genetic effects on the clock
Date: 2013-01-10
Presenter(s): Ralph Greenspan

Location:

Title: Circadian regulation of olfaction and an evolutionarily conserved, nontranscriptional marker in Caenorhabditis elegans
Date: 2013-01-17
Presenter(s): Joseph Boyd
Location:

Title: Topological specificity and hierarchical network of the circadian calcium rhythm in the suprachiasmatic nucleus
Date: 2013-02-07
Presenter(s): Dan Burnston
Location:

Title: Transcriptional corepressor TOPLESS complexes with pseudoresponse regulator proteins and histone deacetylases to regulate circadian transcription
Date: 2013-02-21
Presenter(s): Federico Unglaub
Location:

Title: Effect of network architecture on synchronization and entrainment properties of the circadian oscillations in the suprachiasmatic nucleus
Date: 2013-03-07
Presenter(s): Bill Bechtel
Location:

Title: Circadian clock adjustment to plant iron status depends on chloroplast and phytochrome function AND Iron is involved in the maintenance of circadian per
Date: 2013-03-21
Presenter(s): Colleen Doherty
Location:

Title: Non-optimal codon usage affects expression, structure and function of clock protein FRQ. and Non-optimal codon usage is a mechanism to achieve circadian cloc
Date: 2013-04-18
Presenter(s): Susan Cohen
Location:

Title: Scientific diagrams as traces of group-dependent cognition: A brief cognitive-historical analysis
Date: 2013-05-02
Presenter(s): Ben Sheredos
Location:

Title: The photoperiodic regulation of circadian photic phase response curves
Date: 2013-05-16

Presenter(s): Jeff Elliott
Location:

Title: A Gq-Ca2+ Axis Controls Circuit-Level Encoding of Circadian Time in the Suprachiasmatic Nucleus
Date: 2013-06-06
Presenter(s): Tanja Diemer
Location:

LECTURES (0)

CONFERENCES (9)

Title: Mini-Symposium on Circadian Rhythms
Date: 2009-10-23
Presenter(s): Susan Golden-UCSD, David Welsh-UCSD, Ying-Hui Fu-UCSF, Joanne Chory-Salk, Satchin Panda-Salk, Steve Kay-UCSD, and Ron Evans-Salk
Location: Frederic de Hoffman Auditorium, Salk Institute for Biological Studies

Title: Mini-Symposium on Circadian Rhythms
Date: 2009-11-13
Presenter(s): Stu Brody-UCSD, Michael Gorman-UCSD, Sasha Kauffman-UCSD, Sonia Ancoli-Israel-UCSD, William Bechtel-UCSD, Barbara Parry-UCSD, Timothy Rickard-UCSD, Jeff Hasty-UCSD, and Susan Golden-UCSD
Location: Atkinson Pavilion, UCSD Faculty Club

Title: CCB Symposium: From Cells to the Clinic
Date: 2010-05-10
Presenter(s): H.de la Iglesia, F.Doyle, J.Dunlap, R.Greenspan, S.Harmer, L.Hasher, J.Hasty, S.Hattar, E.Herzog, S.Kay, E.Klerman, C.R.McClung, R.Nelson, M.Nitabach, E.O'Shea, P.Sassone-Corsi, and P.Zee
Location: Institute of the Americas, UCSD

Title: CCB Fall Workshop on Biological Timing
Date: 2010-11-08
Presenter(s): William Joiner-UCSD, John Buchner-UCSD, Katja Lamia-SRI, Terry Hwa-UCSD, Luciano DiTacchio-Salk, Gena Glickman-UCSD, Sean Drummond-UCSD, Takako Noguchi-UCSD, Lev Tsimring-UCSD, Dmitri Nusinow-UCSD, an
Location: UCSD Faculty Club - Atkinson Pavilion

Title: CCB Symposium: From Cells to Clinic February 9-11, 2011
Date: 2011-02-09
Presenter(s): Deborah Bell-Pedersen-Texas A&M Univ., Susan Golden-UCSD, Andrew Millar-Univ. of Edinburgh, Satchin Panda-Salk, Chris Colwell-UCLA, Alec Davidson-Morehouse SOM, John O'Neill-Univ. of Cambridge, David

Location: Institute of Americas, UCSD

Title: CCB Fall Workshop on Biological Timing
Date: 2011-11-09
Presenter(s): B.Deris, A.Neikrug, M.McCarthy, C.Lainscsek, J.Maglione, C.Nievergelt, C.Doherty, B.McKenna, E.Tobin, S.Ancoli-Israel, S.Golden, S.Brody, S.Kay
Location: Leichtag Biomedical Bldg. Rm 107 - School of Medicine Campus, UCSD

Title: CCB Symposium: From Cells to Clinic Feb 15-17, 2012
Date: 2012-02-15
Presenter(s): A.Webb, A.Huberman, A.LiWang, G.Block, H.Ueda, R.Anafi, J.Takahashi, K.Obrietan, K.Lamia, M.Rosekind, M.Carskadon, M.Harrington, M.Gorman, M.Young, R.Tsien, S.Mednick, S.Brown, Y.Liu
Location: Institute of Americas, UCSD

Title: CCB Fall Workshop on Biological Timing
Date: 2012-11-16
Presenter(s): S.Gill, M.Hatori, H.Tsuyoshi, J.Kelsoe, S.Beesley, A.Prindle, S.Golden, C.Partch, J.Gendron, Y.Kim, P.Bourne, N.Spitzer
Location:

Title: CCB Symposium: From Cells to Clinic Feb 13-15, 2013
Date: 2013-02-13
Presenter(s): m.Brunner, J.Pruneds-Paz, M.Do, L.Ptachek, C.Doherty, M.Rust, S.Drummond, U.Schibler, J.Duffy, W.Schwartz, F.Gage, A.Sehgal, C.Green, N.Spitzer, A.Hoffmann, P.Taghert, C.McClung, D.Welsh
Location:

OTHER (4)

Title: Faculty Club Lunch Meetings to Introduce the Center for Chronobiology to CCB Faculty Members
Date: 2009-09-09
Presenter(s): Susan Golden and Stu Brody
Location: Faculty Club

Title: Faculty Club Lunch Meetings to Introduce the Center for Chronobiology to CCB Faculty Members
Date: 2009-09-17
Presenter(s): Susan Golden and Stu Brody
Location: Faculty Club

Title: Reception for CCB Research Staff
Date: 2009-12-02
Presenter(s): Susan Golden and Stu Brody

Location: Mandeville Suite, Tioga Hall, UCSD

Title: CCB Open House
Date: 2010-07-20
Presenter(s): Hosted by: Susan Golden and Stu Brody
Location: AP&M, 2840

PUBLICATIONS

JOURNALS (441)

5 Year Review ? Journals (2009-2013)

A 12-Week, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Effect of Eszopiclone 2 Mg on Sleep/Wake Function in Older Adults with Primary and Comorbid Insomnia - S Ancoli-Israel, AD Krystal, WV McCall, K Schaefer, A Wilson, R Claus, R Rubens& T Roth (2010) In Sleep, Vol. 33, 225-234

A Computational Model for the Modulation of the Prepulse Inhibition of the Acoustic Startle Reflex - DF Ramirez-MorenoTJ Sejnowski (2012) In Biological Cybernetics, Vol. 106, 169-176

A Conserved Behavioral State Barrier Impedes Transitions between Anesthetic-Induced Unconsciousness and Wakefulness: Evidence for Neural Inertia - EB Friedman, Y Sun, JT Moore, HT Hung, QC Meng, P Perera, WJ Joiner, SA Thomas, RG Eckenhoff, A Sehgal& MB Kelz (2010) In Plos One, Vol. 5,

A Functional Genomics Approach Reveals Che as a Component of the Arabidopsis Circadian Clock - JL Pruneda-Paz, G Breton, A Para& SA Kay (2009) In Science, Vol. 323, 1481-1485

A Genome-Wide Association Study of Attempted Suicide - VL Willour, F Seifuddin, PB Mahon, D Jancic, M Pirooznia, J Steele, B Schweizer, FS Goes, FM Mondimore, DF MacKinnon, RH Perlis, PH Lee, J Huang, JR Kelsoe, PD Shilling, M Rietschel, M Nothen, S Cichon, H Gurling, S Purcell, JW Smoller, N Craddock, JR DePaulo, TG Schulze, FJ McMahon, PP Zandi, JB Potash& GSC Bi (2012) In Molecular Psychiatry, Vol. 17, 433-444

A Genome-Wide Association Study of Seasonal Pattern Mania Identifies Nf1a as a Possible Susceptibility Gene for Bipolar Disorder - HJ Lee, HG Woo, TA Greenwood, DF Kripke& JR Kelsoe (2013) In Journal of Affective Disorders, Vol. 145, 200-207

A Hormone-Dependent Module Regulating Energy Balance - B Wang, N Moya, S Niessen, H Hoover, MM Mihaylova, RJ Shaw, JR Yates, WH Fischer, JB Thomas& M Montminy (2011) In Cell, Vol. 145, 596-606

A Longitudinal Analysis of the Relations among Stress, Depressive Symptoms, Leisure Satisfaction, and Endothelial Function in Caregivers - BT Mausbach, E Chattillion, SK Roepke, MG Ziegler, M Milic, R von Kanel, JE Dimsdale, PJ Mills, TL Patterson, MA Allison, S Ancoli-Israel& I Grant (2012) In Health Psychology, Vol. 31, 433-440

A Model of the Cell-Autonomous Mammalian Circadian Clock - HP Mirsky, AC Liu, DK Welsh, SA Kay& FJ Doyle (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 11107-11112

A Novel Allele of Kaia Shortens the Circadian Period and Strengthens Interaction of Oscillator Components in the Cyanobacterium Synechococcus Elongatus Pcc 7942 - Y Chen, YI Kim, SR Mackey, CK Holtman, A LiWang& SS Golden (2009) In Journal of Bacteriology, Vol. 191, 4392-4400

A Peroxisome Proliferator-Activated Receptor-Delta Agonist Provides Neuroprotection in the 1-Methyl-4-Phenyl-1,2,3, 6-Tetrahydropyridine Model of Parkinson's Disease - HL Martin, RB Mounsey, K Sathe, S Mustafa, MC Nelson, RM Evans& P Teismann (2013) In Neuroscience, Vol. 240, 191-203

A Pml-Ppar-Delta Pathway for Fatty Acid Oxidation Regulates Hematopoietic Stem Cell Maintenance - K Ito, A Carracedo, D Weiss, F Arai, U Ala, DE Avigan, ZT Schafer, RM Evans, T Suda, CH Lee& PP Pandolfi (2012) In Nature Medicine, Vol. 18, 1350-+

A Ppar Gamma-Fgf1 Axis Is Required for Adaptive Adipose Remodelling and Metabolic Homeostasis - JW Jonker, JM Suh, AR Atkins, M Ahmadian, PP Li, J Whyte, MX He, H Juguilon, YQ Yin, CT Phillips, RT Yu, JM Olefsky, RR Henry, M Downes& RM Evans (2012) In Nature, Vol. 485, 391-U143

A Sensing Array of Radically Coupled Genetic 'Biopixels' - A Prindle, P Samayoa, I Razinkov, T Danino, LS Tsimring& J Hasty (2012) In Nature, Vol. 481, 39-44

A Survey of Genomic Studies Supports Association of Circadian Clock Genes with Bipolar Disorder Spectrum Illnesses and Lithium Response - MJ McCarthy, CM Nievergelt, JR Kelsoe& DK Welsh (2012) In Plos One, Vol. 7,

A Synchronized Quorum of Genetic Clocks - T Danino, O Mondragon-Palomino, L Tsimring& J Hasty (2010) In Nature, Vol. 463, 326-330

Aberrant Development of the Suprachiasmatic Nucleus and Circadian Rhythms in Mice Lacking the Homeodomain Protein Six6 - DD Clark, MR Gorman, M Hatori, JD Meadows, S Panda& PL Mellon (2013) In Journal of Biological Rhythms, Vol. 28, 15-25

Abstraction and the Organization of Mechanisms - A LevyW Bechtel (2013) In Philosophy of Science, Vol. 80, 241-261

Actigraphic Assessment of a Polysomnographic-Recorded Nap: A Validation Study - JC Kanady, SPA Drummond& SC Mednick (2011) In Journal of Sleep Research, Vol. 20, 214-222

Action Initiation in the Human Dorsal Anterior Cingulate Cortex - L Srinivasan, WF Asaad, DT Ginat, JT Gale, DD Dougherty, ZM Williams, TJ Sejnowski& EN Eskandar (2013) In Plos One, Vol. 8,

Activity-Dependent Competition Regulates Motor Neuron Axon Pathfinding Via Plexina3 - PV Plazas, X Nicol& NC Spitzer (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 1524-1529

Adjunctive Agomelatine Therapy in the Treatment of Acute Bipolar Ii Depression: A Preliminary Open Label Study - M Fornaro, MJ McCarthy, D De Berardis, C De Pasquale, M Tabaton, M Martino, S Colicchio, CI Cattaneo, E D'Angelo& P Fornaro (2013) In Neuropsychiatric Disease and Treatment, Vol. 9, 243-251

All Snps Are Not Created Equal: Genome-Wide Association Studies Reveal a Consistent Pattern of Enrichment among Functionally Annotated Snps - AJ Schork, WK Thompson, P Pham, A Torkamani, JC Roddey, PF Sullivan, JR Kelsoe, MC O'Donovan, H Furberg, NJ Schork, OA Andreassen, AM Dale, C Tobacco Genetics, G Bipolar Disorder Psychiat& C Schizophrenia Psychiat Genomics (2013) In Plos Genetics, Vol. 9,

Ampk Regulates the Circadian Clock by Cryptochrome Phosphorylation and Degradation - KA Lamia, UM Sachdeva, L DiTacchio, EC Williams, JG Alvarez, DF Egan, DS Vasquez, H Juguilon, S Panda, RJ Shaw, CB Thompson& RM Evans (2009) In Science, Vol. 326, 437-440

An Addendum to "Detailed Balance Has a Counterpart in Nonequilibrium Steady States" - A SimhaRML Evans (2011) In Transport Theory and Statistical Physics, Vol. 40, 304-309

Analysis of 94 Candidate Genes and 12 Endophenotypes for Schizophrenia from the Consortium on the Genetics of Schizophrenia - TA Greenwood, LC Lazzeroni, SS Murray, KS Cadenhead, ME Calkins, DJ Dobie, MF Green, RE Gur, RC Gur, G Hardiman, JR Kelsoe, S Leonard, GA Light, KH Nuechterlein, A Olincy, AD Radant, NJ Schork, LJ Seidman, LJ Siever, JM

Silverman, WS Stone, NR Swerdlow, DW Tsuang, MT Tsuang, BI Turetsky, R Freedman& DL Braff (2011) In American Journal of Psychiatry, Vol. 168, 930-946

Androgen Receptor Repression of Gnrh Gene Transcription - MJ Brayman, PA Pepa, SE Berdy& PL Mellon (2012) In Molecular Endocrinology, Vol. 26, 2-13

Androgen Receptor Repression of Gonadotropin-Releasing Hormone Gene Transcription Via Enhancer 1 - MJ Brayman, PA Pepa& PL Mellon (2012) In Molecular and Cellular Endocrinology, Vol. 363, 92-99

Anomalous Diffusion of Single Particles in Cytoplasm - BM Regner, D Vucinic, C Domnisoru, TM Bartol, MW Hetzer, DM Tartakovsky& TJ Sejnowski (2013) In Biophysical Journal, Vol. 104, 1652-1660

Antagonistic Gene Transcripts Regulate Adaptation to New Growth Environments - BL Baumgartner, MR Bennett, M Ferry, TL Johnson, LS Tsimring& J Hasty (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 21087-21092

Arabidopsis Circadian Clock Protein, Toc1, Is a DNA-Binding Transcription Factor - JM Gendron, JL Pruneda-Paz, CJ Doherty, AM Gross, SE Kang& SA Kay (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 3167-3172

Arabidopsis Hemera/Ptac12 Initiates Photomorphogenesis by Phytochromes - M Chen, RM Galvao, MN Li, B Burger, J Bugea, J Bolado& J Chory (2010) In Cell, Vol. 141, 1230-U1237

Arousal Frequency Is Associated with Increased Fatigue in Obstructive Sleep Apnea - HJ Yue, W Bardwell, S Ancoli-Israel, JS Loredo& JE Dimsdale (2009) In Sleep and Breathing, Vol. 13, 331-339

Arsenic Decreases Rxr Alpha-Dependent Transcription of Cyp3a and Suppresses Immune Regulators in Hepatocytes - TL Noreault-Conti, A Fellows, JM Jacobs, HW Trask, SC Strom, RM Evans, SA Wrighton, PR Sinclair, JF Sinclair& RC Nichols (2012) In International Immunopharmacology, Vol. 12, 651-656

Assessment of Epigenetic Contributions to Sexually-Dimorphic Kiss1 Expression in the Anteroventral Periventricular Nucleus of Mice - SJ Semaan, S Dhamija, J Kim, EC Ku& AS Kauffman (2012) In Endocrinology, Vol. 153, 1875-1886

Association between Chronic Caregiving Stress and Impaired Endothelial Function in the Elderly - BT Mausbach, SK Roepke, MG Ziegler, M Milic, R von Kanel, JE Dimsdale, PJ Mills, TL Patterson, MA Allison, S Ancoli-Israel& I Grant (2010) In Journal of the American College of Cardiology, Vol. 55, 2599-2606

Association between Insomnia Symptoms and Weight Change in Older Women: Caregiver-Study of Osteoporotic Fractures Study - C Ross, S Ancoli-Israel, S Redline, K Stone& L Fredman (2011) In Journal of the American Geriatrics Society, Vol. 59, 1697-1704

Association of Dopamine Transporter Gene Variants with Childhood Adhd Features in Bipolar Disorder - TA Greenwood, EJ Joo, T Shekhtman, AD Sadovnick, RA Remick, PE Keck, SL McElroy& JR Kelsoe (2013) In American Journal of Medical Genetics Part B-Neuropsychiatric Genetics, Vol. 162B, 137-145

Association of Incident Cardiovascular Disease with Periodic Limb Movements During Sleep in Older Men Outcomes of Sleep Disorders in Older Men (Mros) Study - BB Koo, T Blackwell, S Ancoli-Israel, KL Stone, ML Stefanick, S Redline& OS Osteoporotic Fractures Men Mr (2011) In Circulation, Vol. 124, 1223-1231

Association of Sleep Characteristics and Cognition in Older Community-Dwelling Men: The Mros Sleep Study - T Blackwell, K Yaffe, S Ancoli-Israel, S Redline, KE Ensrud, ML Stefanick, A Laffan, KL Stone& OSS Osteoporotic Fractures Men Mr (2011) In Sleep, Vol. 34, 1347-1356

Associations between Sleep Architecture and Sleep-Disordered Breathing and Cognition in Older Community-Dwelling Men: The Osteoporotic Fractures in Men Sleep Study - T Blackwell,

K Yaffe, S Ancoli-Israel, S Redline, KE Ensrud, ML Stefanick, A Laffan, KL Stone& S Osteoporotic Fractures Men (2011) In Journal of the American Geriatrics Society, Vol. 59, 2217-2225

Automated Analysis of Hypocotyl Growth Dynamics During Shade Avoidance in Arabidopsis - B Cole, SA Kay& J Chory (2011) In Plant Journal, Vol. 65, 991-1000

Autonomic and Hemodynamic Origins of Pre-Hypertension Central Role of Heredity - JT Davis, FW Rao, D Naqshbandi, MM Fung, KX Zhang, AJ Schork, CM Nievergelt, MG Ziegler& DT O'Connor (2012) In Journal of the American College of Cardiology, Vol. 59, 2206-2216

Bax-Dependent and Bax-Independent Regulation of Kiss1 Neuron Development in Mice - SJ Semaan, EK Murray, MC Poling, S Dhamija, NG Forger& AS Kauffman (2010) In Endocrinology, Vol. 151, 5807-5817

Bayesian Statistical Analysis of Circadian Oscillations in Fibroblasts - AL Cohen, TL Leise& DK Welsh (2012) In Journal of Theoretical Biology, Vol. 314, 182-191

Bcl-6 and Nf-Kappa B Cistromes Mediate Opposing Regulation of the Innate Immune Response - GD Barish, RT Yu, M Karunasiri, CB Ocampo, J Dixon, C Benner, AL Dent, RK Tangirala& RM Evans (2010) In Genes & Development, Vol. 24, 2760-2765

Behavioral and Neurochemical Consequences of Cortical Oxidative Stress on Parvalbumin-Interneuron Maturation in Rodent Models of Schizophrenia - SB Powell, TJ Sejnowski& MM Behrens (2012) In Neuropharmacology, Vol. 62, 1322-1331

Biological Indeterminacy - RJ Greenspan (2012) In Science and Engineering Ethics, Vol. 18, 447-452

Biophysical Neural Spiking, Bursting, and Excitability Dynamics in Reconfigurable Analog Vlsi - T Yu, TJ Sejnowski& G Cauwenberghs (2011) In Ieee Transactions on Biomedical Circuits and Systems, Vol. 5, 420-429

Blood-Based Gene-Expression Predictors of Ptsd Risk and Resilience among Deployed Marines: A Pilot Study - SJ Glatt, DS Tylee, SD Chandler, J Pazol, CM Nievergelt, CH Woelk, DG Baker, JB Lohr, WS Kremen, BT Litz, MT Tsuang& I Marine Resiliency Study (2013) In American Journal of Medical Genetics Part B-Neuropsychiatric Genetics, Vol. 162B, 313-326

Branched1 Interacts with Flowering Locus T to Repress the Floral Transition of the Axillary Meristems in Arabidopsis - M Niwa, Y Daimon, K Kurotani, A Higo, JL Pruneda-Paz, G Breton, N Mitsuda, SA Kay, M Ohme-Takagi, M Endo& T Araki (2013) In Plant Cell, Vol. 25, 1228-1242

Brassinosteroid Perception in the Epidermis Controls Root Meristem Size - Y Hacham, N Holland, C Butterfield, S Ubeda-Tomas, MJ Bennett, J Chory& S Savaldi-Goldstein (2011) In Development, Vol. 138, 839-848

Brassinosteroid Signaling and Auxin Transport Are Required to Establish the Periodic Pattern of Arabidopsis Shoot Vascular Bundles - M Ibanes, N Fabregas, J Chory& AI Cano-Delgado (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 13630-13635

Brassinosteroids Modulate the Efficiency of Plant Immune Responses to Microbe-Associated Molecular Patterns - Y Belkhadir, Y Jaillais, P Epple, E Balsemao-Pires, JL Dangl& J Chory (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 297-302

Breast Cancer Patients Have Progressively Impaired Sleep-Wake Activity Rhythms During Chemotherapy - J Savard, LQ Liu, L Natarajan, MB Rissling, AB Neikrug, F He, JE Dimsdale, PJ Mills, BA Parker, GR Sadler& S Ancoli-Israel (2009) In Sleep, Vol. 32, 1155-1160

Brief Morning Light Treatment for Sleep/Wake Disturbances in Older Memory-Impaired Individuals and Their Caregivers - L Friedman, AP Spira, B Hernandez, C Mather, J Sheikh, S Ancoli-Israel, JA Yesavage& JM Zeitzer (2012) In Sleep Medicine, Vol. 13, 546-549

Bright Light Therapy as Part of a Multicomponent Management Program Improves Sleep and Functional Outcomes in Delirious Older Hospitalized Adults - MS Chong, KT Tan, L Tay, YM Wong& S Ancoli-Israel (2013) In Clinical Interventions in Aging, Vol. 8, 565-572

Bright Light Therapy Protects Women from Circadian Rhythm Desynchronization During Chemotherapy for Breast Cancer - AB Neikrug, M Rissling, V Trofimenko, LQ Liu, L Natarajan, S Lawton, BA Parker& S Ancoli-Israel (2012) In Behavioral Sleep Medicine, Vol. 10, 202-216

Buckling Instability in Ordered Bacterial Colonies - D Boyer, W Mather, O Mondragon-Palomino, S Orozco-Fuentes, T Danino, J Hasty& LS Tsimring (2011) In Physical Biology, Vol. 8,

Cadherin-6 Mediates Axon-Target Matching in a Non-Image-Forming Visual Circuit - JA Osterhout, N Josten, J Yamada, F Pan, SW Wu, PL Nguyen, G Panagiotakos, YU Inoue, SF Egusa, B Volgyi, T Inoue, SA Bloomfield, BA Barres, DM Berson, DA Feldheim& AD Huberman (2011) In Neuron, Vol. 71, 632-639

Cardiometabolic Effects in Caregivers of Nursing Home Placement and Death of Their Spouse with Alzheimer's Disease - R von Kanel, BT Mausbach, JE Dimsdale, PJ Mills, TL Patterson, S Ancoli-Israel, MG Ziegler, SK Roepke, EA Chattillion, M Allison& I Grant (2011) In Journal of the American Geriatrics Society, Vol. 59, 2037-2044

Carotid Plaque in Alzheimer Caregivers and the Role of Sympathoadrenal Arousal - SK Roepke, EA Chattillion, R von Kanel, M Allison, MG Ziegler, JE Dimsdale, PJ Mills, TL Patterson, S Ancoli-Israel, S Calleran, AL Harmell& I Grant (2011) In Psychosomatic Medicine, Vol. 73, 206-213

Cell Cycle-Dependent Variations in Protein Concentration - NA Cookson, SW Cookson, LS Tsimring& J Hasty (2010) In Nucleic Acids Research, Vol. 38, 2676-2681

Cellular Bioluminescence Imaging - DK WelshT Noguchi (2012) In Cold Spring Harb Protoc, Vol. 1,

Characterization of Orderly Spatiotemporal Patterns of Clock Gene Activation in Mammalian Suprachiasmatic Nucleus - NC Foley, TY Tong, D Foley, J LeSauter, DK Welsh& R Silver (2011) In European Journal of Neuroscience, Vol. 33, 1851-1865

Childhood Socioeconomic Status and Race Are Associated with Adult Sleep - LM Tomfohr, S Ancoli-Israel& JE Dimsdale (2010) In Behavioral Sleep Medicine, Vol. 8, 219-230

Choice Modulates the Neural Dynamics of Prediction Error Processing During Rewarded Learning - DA Peterson, DT Lotz, E Halgren, TJ Sejnowski& H Poizner (2011) In Neuroimage, Vol. 54, 1385-1394

Circadian Activity Rhythms and Mortality: The Study of Osteoporotic Fractures - GJ Tranah, T Blackwell, S Ancoli-Israel, ML Paudel, KE Ensrud, JA Cauley, S Redline, TA Hillier, SR Cummings, KL Stone& F Study Osteoporotic (2010) In Journal of the American Geriatrics Society, Vol. 58, 282-291

Circadian Activity Rhythms and Risk of Incident Dementia and Mild Cognitive Impairment in Older Women - GJ Tranah, T Blackwell, KL Stone, S Ancoli-Israel, ML Paudel, KE Ensrud, JA Cauley, S Redline, TA Hillier, SR Cummings, K Yaffe& SOFR Grp (2011) In Annals of Neurology, Vol. 70, 722-732

Circadian Clock Protein Cryptochrome Regulates the Expression of Proinflammatory Cytokines - R Narasimamurthy, M Hatori, SK Nayak, F Liu, S Panda& IM Verma (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 12662-12667

Circadian Gating of the Cell Cycle Revealed in Single Cyanobacterial Cells - Q Yang, BF Pando, GG Dong, SS Golden& A van Oudenaarden (2010) In Science, Vol. 327, 1522-1526

Circadian Oscillations of Protein-Coding and Regulatory Rnas in a Highly Dynamic Mammalian Liver Epigenome - C Vollmers, RJ Schmitz, J Nathanson, G Yeo, JR Ecker& S Panda (2012) In Cell Metabolism, Vol. 16, 833-845

Circadian Regulation of Kiss1 Neurons: Implications for Timing the Preovulatory Gonadotropin-Releasing Hormone/Luteinizing Hormone Surge - JL Robertson, DK Clifton, HO de la Iglesia, RA Steiner& AS Kauffman (2009) In Endocrinology, Vol. 150, 3664-3671

Circadian Rhythms in Neurospora Crassa: Downstream Effectors - S Brody, K Oelhafen, K Schneider, S Perrino, A Goetz, C Wang& C English (2010) In Fungal Genetics and Biology, Vol. 47, 159-168

Circadian Rhythms in Neurospora Crassa: Dynamics of the Clock Component Frequency Visualized Using a Fluorescent Reporter - E Castro-Longoria, M Ferry, S Bartnicki-Garcia, J Hasty& S Brody (2010) In Fungal Genetics and Biology, Vol. 47, 332-341

Circadian Timing of Ethanol Exposure Exerts Enduring Effects on Subsequent Ad Libitum Consumption in C57 Mice - JL Trujillo, AJ Roberts& MR Gorman (2009) In Alcoholism-Clinical and Experimental Research, Vol. 33, 1286-1293

Cis-Regulatory Changes at Flowering Locus T Mediate Natural Variation in Flowering Responses of Arabidopsis Thaliana - C Schwartz, S Balasubramanian, N Warthmann, TP Michael, J Lempe, S Sureshkumar, Y Kobayashi, JN Maloof, JO Borevitz, J Chory& D Weigel (2009) In Genetics, Vol. 183, 723-732

Class Iia Histone Deacetylases Are Hormone-Activated Regulators of Foxo and Mammalian Glucose Homeostasis - MM Mihaylova, DS Vasquez, K Ravnskjaer, PD Denechaud, RT Yu, JG Alvarez, M Downes, RM Evans, M Montminy& RJ Shaw (2011) In Cell, Vol. 145, 607-621

Clinical Correlates of Periodic Limb Movements in Sleep in Parkinson's Disease - N Covassin, AB Neikrug, LQ Liu, J Corey-Bloom, JS Loredo, BW Palmer, J Maglione& S Ancoli-Israel (2012) In Journal of the Neurological Sciences, Vol. 316, 131-136

Co-Expression of Val- and Tmt-Opsins Uncovers Ancient Photosensory Interneurons and Motorneurons in the Vertebrate Brain - RM Fischer, BM Fontinha, S Kirchmaier, J Steger, S Bloch, D Inoue, S Panda, S Rumpel& K Tessmar-Raible (2013) In PLoS Biol, Vol. 11, 11

Common Genetic Variants in Arntl and Npas2 and at Chromosome 12p13 Are Associated with Objectively Measured Sleep Traits in the Elderly - DS Evans, N Parimi, CM Nievergelt, T Blackwell, S Redline, S Ancoli-Israel, ES Orwoll, SR Cummings, KL Stone, GJ Tranah, SOF Grp& OS Osteoporotic Fractures Men Mr (2013) In Sleep, Vol. 36, 431-446

Common Genetic Variants of the Human Uromodulin Gene Regulate Transcription and Predict Plasma Uric Acid Levels - J Han, Y Liu, FW Rao, CM Nievergelt, DT O'Connor, XY Wang, LS Liu, DF Bu, Y Liang, F Wang, LX Zhang, H Zhang, YQ Chen& HY Wang (2013) In Kidney International, Vol. 83, 733-740

Computing Reaching Dynamics in Motor Cortex with Cartesian Spatial Coordinates - H TanakaTJ Sejnowski (2013) In Journal of Neurophysiology, Vol. 109, 1182-1201

Constructing a Philosophy of Science of Cognitive Science - W Bechtel (2009) In Topics in Cognitive Science, Vol. 1, 548-569

Continuous Positive Airway Pressure Deepens Sleep in Patients with Alzheimer's Disease and Obstructive Sleep Apnea - JR Cooke, S Ancoli-Israel, LQ Liu, JS Loredo, L Natarajan, BS Palmer, F He& J Corey-Bloom (2009) In Sleep Medicine, Vol. 10, 1101-1106

Continuum Modeling of Myxobacteria Clustering - CW Harvey, M Alber, LS Tsimring& IS Aranson (2013) In New Journal of Physics, Vol. 15,

Controlling a Lamprey-Based Robot with an Electronic Nervous System - A Westphal, NF Rulkov, J Ayers, D Brady& M Hunt (2011) In Smart Structures and Systems, Vol. 8, 39-52

Conversion of Tryptophan to Indole-3-Acetic Acid by Tryptophan Aminotransferases of Arabidopsis and Yuccas in Arabidopsis - C Won, XL Shen, K Mashiguchi, ZY Zheng, XH Dai, YF Cheng, H Kasahara, Y Kamiya, J Chory& YD Zhao (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 18518-18523

Coordination of Auxin and Ethylene Biosynthesis by the Aminotransferase Vas1 - ZY Zheng, YX Guo, O Novak, XH Dai, YD Zhao, K Ljung, JP Noel& J Chory (2013) In Nature Chemical Biology, Vol. 9, 244-246

Corepressive Interaction and Clustering of Degrade-and-Fire Oscillators - B FernandezLS Tsimring (2011) In Physical Review E, Vol. 84,

Corepressor Smrt Promotes Oxidative Phosphorylation in Adipose Tissue and Protects against Diet-Induced Obesity and Insulin Resistance - S Fang, JM Suh, AR Atkins, SH Hong, M Leblanc, RR Nofsinger, RT Yu, M Downes& RM Evans (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 3412-3417

Coronal Heating by Surface Alfven Wave Damping: Implementation in a Global Magnetohydrodynamics Model of the Solar Wind - RM Evans, M Opher, R Oran, B van der Holst, IV Sokolov, R Frazin, TI Gombosi& A Vasquez (2012) In Astrophysical Journal, Vol. 756,

Correlation Resonance Generated by Coupled Enzymatic Processing - WH Mather, NA Cookson, J Hasty, LS Tsimring& RJ Williams (2010) In Biophysical Journal, Vol. 99, 3172-3181

Creb Is Activated by Muscle Injury and Promotes Muscle Regeneration - R Stewart, L Flechner, M Montminy& R Berdeaux (2011) In Plos One, Vol. 6,

Critical Periods of Susceptibility to Short-Term Energy Challenge During Pregnancy: Impact on Fertility and Offspring Development - AS Kauffman, K Bojkowska& EF Rissman (2010) In Physiology & Behavior, Vol. 99, 100-108

Crosstalk in Cellular Signaling: Background Noise or the Real Thing? - G VertJ Chory (2011) In Developmental Cell, Vol. 21, 985-991

Crtc3 Links Catecholamine Signalling to Energy Balance - Y Song, J Altarejos, MO Goodarzi, H Inoue, XQ Guo, R Berdeaux, JH Kim, J Goode, M Igata, JC Paz, MF Hogan, PK Singh, N Goebel, L Vera, N Miller, JR Cui, MR Jones, YDI Chen, KD Taylor, WA Hsueh, JI Rotter, M Montminy, C Consortium& G Consortium (2010) In Nature, Vol. 468, 933-U329

Cry1(-/-) Circadian Rhythmicity Depends on Scn Intercellular Coupling - JA Evans, HY Pan, AC Liu& DK Welsh (2012) In Journal of Biological Rhythms, Vol. 27, 443-452

Cryptochrome 1 and Phytochrome B Control Shade-Avoidance Responses in Arabidopsis Via Partially Independent Hormonal Cascades - MM Keller, Y Jaillais, UV Pedmale, JE Moreno, J Chory& CL Ballare (2011) In Plant Journal, Vol. 67, 195-207

Cryptochrome Mediates Circadian Regulation of Camp Signaling and Hepatic Gluconeogenesis - EE Zhang, Y Liu, R Dentin, PY Pongsawakul, AC Liu, T Hirota, DA Nusinow, XJ Sun, S Landais, Y Kodama, DA Brenner, M Montminy& SA Kay (2010) In Nature Medicine, Vol. 16, 1152-U1133

Cryptochromes Mediate Rhythmic Repression of the Glucocorticoid Receptor - KA Lamia, SJ Papp, RT Yu, GD Barish, NH Uhlenhaut, JW Jonker, M Downes& RM Evans (2011) In Nature, Vol. 480, 552-U183

Crystal Structure of the Heterodimeric Clock:Bmal1 Transcriptional Activator Complex - NA Huang, Y Chelliah, YL Shan, CA Taylor, SH Yoo, C Partch, CB Green, H Zhang& JS Takahashi (2012) In Science, Vol. 337, 189-194

Day/Night Rhythm of Hemostatic Factors in Obstructive Sleep Apnea - R von Kanel, L Natarajan, S Ancoli-Israel, PJ Mills, JS Loredo& JE Dimsdale (2010) In Sleep, Vol. 33, 371-377

Decreased Slow Wave Sleep Increases Risk of Developing Hypertension in Elderly Men - MM Fung, K Peters, S Redline, MG Ziegler, S Ancoli-Israel, E Barrett-Connor, KL Stone& G Osteoporotic Fractures Men Res (2011) In Hypertension, Vol. 58, 596-U159

Delayed Sleep Phase Syndrome Is Related to Seasonal Affective Disorder - HJ Lee, KM Rex, CM Nievergelt, JR Kelsoe& DF Kripke (2011) In Journal of Affective Disorders, Vol. 133, 573-579

Depressive Symptoms and Subjective and Objective Sleep in Community-Dwelling Older Women - JE Maglione, S Ancoli-Israel, KW Peters, ML Paudel, K Yaffe, KE Ensrud& KL Stone (2012) In Journal of the American Geriatrics Society, Vol. 60, 635-643

Development, Sex Steroid Regulation, and Phenotypic Characterization of Rfamide-Related Peptide (Rfrp) Gene Expression and Rfamide Receptors in the Mouse Hypothalamus - MC Poling, J Kim, S Dhamija& AS Kauffman (2012) In Endocrinology, Vol. 153, 1827-1840

Dim Nighttime Illumination Interacts with Parametric Effects of Bright Light to Increase the Stability of Circadian Rhythm Bifurcation in Hamsters - JA Evans, JA Elliott& MR Gorman (2011) In Chronobiology International, Vol. 28, 488-496

Direct-Coupling Analysis of Residue Coevolution Captures Native Contacts across Many Protein Families - F Morcos, A Pagnani, B Lunt, A Bertolino, DS Marks, C Sander, R Zecchina, JN Onuchic, T Hwa& M Weigt (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, E1293-E1301

Dissecting the Specificity of Protein-Protein Interaction in Bacterial Two-Component Signaling: Orphans and Crosstalks - A Procaccini, B Lunt, H Szurmant, T Hwa& M Weigt (2011) In Plos One, Vol. 6,

Diurnal Variability of C-Reactive Protein in Obstructive Sleep Apnea - PJ Mills, L Natarajan, R von Kanel, S Ancoli-Israel& JE Dimsdale (2009) In Sleep and Breathing, Vol. 13, 415-420

Diverse Visual Features Encoded in Mouse Lateral Geniculate Nucleus - DM Piscopo, RN El-Danaf, AD Huberman& CM Niell (2013) In Journal of Neuroscience, Vol. 33, 4642-4656

Divide and Conquer: Functional Segregation of Synaptic Inputs by Astrocytic Microdomains Could Alleviate Paroxysmal Activity Following Brain Trauma - V Volman, M Bazhenov& TJ Sejnowski (2013) In Plos Computational Biology, Vol. 9,

Double-Gabor Filters Are Independent Components of Small Translation-Invariant Image Patches - S Saremi, TJ Sejnowski& TO Sharpee (2013) In Neural Computation, Vol. 25, 922-939

Downregulation of Parvalbumin at Cortical Gaba Synapses Reduces Network Gamma Oscillatory Activity - V Volman, MM Behrens& TJ Sejnowski (2011) In Journal of Neuroscience, Vol. 31, 18137-18148

Duplications of the Neuropeptide Receptor Gene Vipr2 Confer Significant Risk for Schizophrenia - V Vacic, S McCarthy, D Malhotra, F Murray, HH Chou, A Peoples, V Makarov, S Yoon, A Bhandari, R Corominas, LM Iakoucheva, O Krastoshevsky, V Krause, V Larach-Walters, DK Welsh, D Craig, JR Kelsoe, ES Gershon, SM Leal, MD Aquila, DW Morris, M Gill, A Corvin, PA Insel, J McClellan, MC King, M Karayiorgou, DL Levy, LE DeLisi& J Sebat (2011) In Nature, Vol. 471, 499-503

Dynamic Chromatin Modifications Control Gnrh Gene Expression During Neuronal Differentiation and Protein Kinase C Signal Transduction - AK Iyer, MJ Brayman& PL Mellon (2011) In Molecular Endocrinology, Vol. 25, 460-473

Dynamic Interactions between Coupled Oscillators within the Hamster Circadian Pacemaker - JA Evans, JA Elliott& MR Gorman (2010) In Behavioral Neuroscience, Vol. 124, 87-96

Dynamic Mechanistic Explanation: Computational Modeling of Circadian Rhythms as an Exemplar for Cognitive Science - W BechtelA Abrahamsen (2010) In Studies in History and Philosophy of Science, Vol. 41, 321-333

Dynamic Modulation of Local Population Activity by Rhythm Phase in Human Occipital Cortex During a Visual Search Task - KJ Miller, D Hermes, CJ Honey, M Sharma, RPN Rao, M den Nijs, EE Fetz, TJ Sejnowski, AO Hebb, JG Ojemann, S Makeig& EC Leuthardt (2010) In Frontiers in Human Neuroscience, Vol. 4,

Dynamical Models: An Alternative or Complement to Mechanistic Explanations? - DM KaplanW Bechtel (2011) In Topics in Cognitive Science, Vol. 3, 438-444

Dynamics of Epileptiform Activity in Mouse Hippocampal Slices - G Filatov, GP Krishnan, NF Rulkov& M Bazhenov (2011) In Journal of Biological Physics, Vol. 37, 347-360

Effect of Alzheimer Caregiving on Circulating Levels of C-Reactive Protein and Other Biomarkers Relevant to Cardiovascular Disease Risk: A Longitudinal Study - R von Kanel, PJ Mills, BT Mausbach, JE Dimsdale, TL Patterson, MG Ziegler, S Ancoli-Israel, M Allison, EA Chattillion& I Grant (2012) In Gerontology, Vol. 58, 354-365

Effect of Chronic Dementia Caregiving and Major Transitions in the Caregiving Situation on Kidney Function: A Longitudinal Study - R von Kanel, BT Mausbach, JE Dimsdale, PJ Mills, TL Patterson, S Ancoli-Israel, MG Ziegler, SK Roepke, EA Chattillion, M Allison& I Grant (2012) In Psychosomatic Medicine, Vol. 74, 214-220

Effect of Continuous Positive Airway Pressure on Day/Night Rhythm of Prothrombotic Markers in Obstructive Sleep Apnea - R von Kanel, L Natarajan, S Ancoli-Israel, PJ Mills, T Wolfson, AC Gamst, JS Loredo& JE Dimsdale (2013) In Sleep Medicine, Vol. 14, 58-65

Effect of Noise on Solid-to-Liquid Transition in Small Granular Systems under Shear - MF Melhus, IS Aranson, D Volfson& LS Tsimring (2009) In Physical Review E, Vol. 80,

Effect of Three Weeks of Continuous Positive Airway Pressure Treatment on Mood in Patients with Obstructive Sleep Apnoea: A Randomized Placebo-Controlled Study - IS Lee, W Bardwell, S Ancoli-Israel, JS Loredo& JE Dimsdale (2012) In Sleep Medicine, Vol. 13, 161-166

Effectiveness of Imagery Rehearsal Therapy for the Treatment of Combat-Related Nightmares in Veterans - CM Nappi, SPA Drummond, SR Thorp& JR McQuaid (2010) In Behavior Therapy, Vol. 41, 237-244

Effects of Alzheimer Caregiving on Allostatic Load - SK Roepke, BT Mausbach, TL Patterson, R Von Kanel, S Ancoli-Israel, AL Harmell, JE Dimsdale, K Aschbacher, PJ Mills, MG Ziegler, M Allison& I Grant (2011) In Journal of Health Psychology, Vol. 16, 58-69

Effects of Continuous Positive Airway Pressure on Fatigue and Sleepiness in Patients with Obstructive Sleep Apnea: Data from a Randomized Controlled Trial - LM Tomfohr, S Ancoli-Israel, JS Loredo& JE Dimsdale (2011) In Sleep, Vol. 34, 121-126

Effects of Gender and Dementia Severity on Alzheimer's Disease Caregivers' Sleep and Biomarkers of Coagulation and Inflammation - PJ Mills, S Ancoli-Israel, R von Kanel, BT Mausbach, K Aschbacher, TL Patterson, MG Ziegler, JE Dimsdale& I Grant (2009) In Brain Behavior and Immunity, Vol. 23, 605-610

Elevated Atpase Activity of Kaic Applies a Circadian Checkpoint on Cell Division in Synechococcus Elongatus - GG Dong, Q Yang, Q Wang, YI Kim, TL Wood, KW Osteryoung, A van Oudenaarden& SS Golden (2010) In Cell, Vol. 140, 529-539

Emergence of Noise-Induced Oscillations in the Central Circadian Pacemaker - CH Ko, YR Yamada, DK Welsh, ED Buhr, AC Liu, EE Zhang, MR Ralph, SA Kay, DB Forger& JS Takahashi (2010) In Plos Biology, Vol. 8,

Engineered Microbes for Therapeutic Applications - J Hasty (2012) In Acs Synthetic Biology, Vol. 1, 438-439

Enhanced Y1h Assays for Arabidopsis - A Gaudinier, LF Zhang, JS Reece-Hoyes, M Taylor-Teeples, L Pu, ZJ Liu, G Breton, JL Pruneda-Paz, D Kim, SA Kay, AJM Walhout, D Ware& SM Brady (2011) In Nature Methods, Vol. 8, 1053-+

Enhancers of Gnrh Transcription Embedded in an Upstream Gene Use Homeodomain Proteins to Specify Hypothalamic Expression - AK Iyer, NLG Miller, K Yip, BH Tran& PL Mellon (2010) In Molecular Endocrinology, Vol. 24, 1949-1964

Enrichment of Cis-Regulatory Gene Expression Snps and Methylation Quantitative Trait Loci among Bipolar Disorder Susceptibility Variants - ER Gamazon, JA Badner, L Cheng, C Zhang, D Zhang, NJ Cox, ES Gershon, JR Kelsoe, TA Greenwood, CM Nievergelt, et.al (2013) In Molecular Psychiatry, Vol. 18, 340-346

Entrainment of a Population of Synthetic Genetic Oscillators - O Mondragon-Palomino, T Danino, J Selimkhanov, L Tsimring& J Hasty (2011) In Science, Vol. 333, 1315-1319

Err Gamma Regulates Cardiac, Gastric, and Renal Potassium Homeostasis - WA Alaynick, JM Way, SA Wilson, WG Benson, LM Pei, M Downes, R Yu, JW Jonker, JA Holt, DK Rajpal, H Li, J Stuart, R McPherson, KS Remlinger, CY Chang, DP McDonnell, RM Evans& AN Billin (2010) In Molecular Endocrinology, Vol. 24, 299-309

Esrrg Functions in Early Branch Generation of the Ureteric Bud and Is Essential for Normal Development of the Renal Papilla - R Berry, L Harewood, LM Pei, M Fisher, D Brownstein, A Ross, WA Alaynick, J Moss, ND Hastie, P Hohenstein, JA Davies, RM Evans& DR FitzPatrick (2011) In Human Molecular Genetics, Vol. 20, 917-926

Ethanol Consumption in Mice: Relationships with Circadian Period and Entrainment - JL Trujillo, DT Do, NJ Grahame, AJ Roberts& MR Gorman (2011) In Alcohol, Vol. 45, 147-159

Ethnic Differences in the Prevalence and Predictors of Restless Legs Syndrome between Hispanics of Mexican Descent and Non-Hispanic Whites in San Diego County: A Population-Based Study - K Sawanyawisuth, LA Palinkas, S Ancoli-Israel, JE Dimsdale& JS Loredo (2013) In Journal of Clinical Sleep Medicine, Vol. 9, 47-53

Evaluation of Two Circadian Rhythm Questionnaires for Screening for the Delayed Sleep Phase Disorder - MK Rhee, HJ Lee, KM Rex& DF Kripke (2012) In Psychiatry Investigation, Vol. 9, 236-244

Evaluation of Two Intensive Care Delirium Screening Tools for Non-Critically Ill Hospitalized Patients - KJ Neufeld, MJ Hayat, JM Coughlin, AL Huberman, NA Leistikow, SK Krumm& DM Needham (2011) In Psychosomatics, Vol. 52, 133-140

Evidence for Association of Bipolar Disorder to Haplotypes in the 22q12.3 Region near the Genes Stargazin, Ift27 and Parvalbumin - S Nissen, S Liang, T Shehktman, JR Kelsoe& GS Bipolar Genome Study Bi (2012) In American Journal of Medical Genetics Part B-Neuropsychiatric Genetics, Vol. 159B, 941-950

Exercise and Pgc-1 Alpha-Independent Synchronization of Type I Muscle Metabolism and Vasculature by Err Gamma - VA Narkar, WW Fan, M Downes, RT Yu, JW Jonker, WA Alaynick, E Banayo, MS Karunasiri, S Lorca& RM Evans (2011) In Cell Metabolism, Vol. 13, 283-293

Explaining Pathological Changes in Axonal Excitability through Dynamical Analysis of Conductance-Based Models - JS Coggan, GK Ocker, TJ Sejnowski& SA Prescott (2011) In Journal of Neural Engineering, Vol. 8,

Extracellular Leucine-Rich Repeats as a Platform for Receptor/Coreceptor Complex Formation - Y Jaillais, Y Belkhadir, E Balsemao-Pires, JL Dangl& J Chory (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 8503-8507

Extracellular Sheets and Tunnels Modulate Glutamate Diffusion in Hippocampal Neuropil - JP Kinney, J Spacek, TM Bartol, CL Bajaj, KM Harris& TJ Sejnowski (2013) In Journal of Comparative Neurology, Vol. 521, 448-464

Extrahepatic Cancer Suppresses Nuclear Receptor-Regulated Drug Metabolism - M Kacevska, MR Downes, R Sharma, RM Evans, SJ Clarke, C Liddle& GR Robertson (2011) In Clinical Cancer Research, Vol. 17, 3170-3180

F-Box Proteins Fkf1 and Lkp2 Act in Concert with Zeitlupe to Control Arabidopsis Clock Progression - A Baudry, S Ito, YH Song, AA Strait, T Kiba, S Lu, R Henriques, JL Pruneda-Paz, NH Chua, EM Tobin, SA Kay& T Imaizumi (2010) In Plant Cell, Vol. 22, 606-622

Factorized Time-Dependent Distributions for Certain Multiclass Queueing Networks and an Application to Enzymatic Processing Networks - WH Mather, J Hasty, LS Tsimring& RJ Williams (2011) In Queueing Systems, Vol. 69, 313-328

Factors That May Influence the Classification of Sleep-Wake by Wrist Actigraphy: The Mros Sleep Study - T Blackwell, S Ancoli-Israel, S Redline, KL Stone& OSS Osteoporotic Fractures Men Mr (2011) In Journal of Clinical Sleep Medicine, Vol. 7, 357-367

Fast Stochastic Algorithm for Simulating Evolutionary Population Dynamics - WH Mather, J Hasty& LS Tsimring (2012) In Bioinformatics, Vol. 28, 1230-1238

Fatigue and Sleep Quality Are Associated with Changes in Inflammatory Markers in Breast Cancer Patients Undergoing Chemotherapy - LQ Liu, PJ Mills, M Rissling, L Fiorentino, L Natarajan, JE Dimsdale, GR Sadler, BA Parker& S Ancoli-Israel (2012) In Brain Behavior and Immunity, Vol. 26, 706-713

Fatigue in Sleep Apnea: The Role of Depressive Symptoms and Self-Reported Sleep Quality - CJ Stepnowsky, JJ Palau, T Zamora, S Ancoli-Israel& JS Loredo (2011) In Sleep Medicine, Vol. 12, 832-837

Feeder-Dependent and Feeder-Independent Ips Cell Derivation from Human and Mouse Adipose Stem Cells - S Sugii, Y Kida, WT Berggren& RM Evans (2011) In Nature Protocols, Vol. 6,

Fibroblast Circadian Rhythms of Per2 Expression Depend on Membrane Potential and Intracellular Calcium - T Noguchi, CW Wang, HY Pan& DK Welsh (2012) In Chronobiology International, Vol. 29, 653-664

Fibroblast Per2 Circadian Rhythmicity Depends on Cell Density - T Noguchi, LL Wang& DK Welsh (2013) In J Biol Rhythms, Vol. 28, 183-192

Finding the Event Structure of Neuronal Spike Trains - JV Toups, JM Fellous, PJ Thomas, TJ Sejnowski& PH Tiesinga (2011) In Neural Computation, Vol. 23, 2169-2208

Flexibility of the C-Terminal, or Cii, Ring of Kaic Governs the Rhythm of the Circadian Clock of Cyanobacteria - YG Chang, NW Kuo, R Tseng& A LiWang (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 14431-14436

Foxl2 Is Involved in the Synergy between Activin and Progestins on the Follicle-Stimulating Hormone Beta-Subunit Promoter - Y Ghochani, JK Saini, PL Mellon& VG Thackray (2012) In Endocrinology, Vol. 153, 2023-2033

Foxl2 Is Required for Activin Induction of the Mouse and Human Follicle-Stimulating Hormone Beta-Subunit Genes - PS Corpuz, LL Lindaman, PL Mellon& D Coss (2010) In Molecular Endocrinology, Vol. 24, 1037-1051

Functional Genetic Variation in the Rev-Erba Pathway and Lithium Response in the Treatment of Bipolar Disorder - MJ McCarthy, CM Nievergelt, T Shekhtman, DF Kripke, DK Welsh& JR Kelsoe (2011) In Genes Brain and Behavior, Vol. 10, 852-861

Further Evidence for Linkage of Bipolar Disorder to Chromosomes 6 and 17 in a New Independent Pedigree Series - TA Greenwood, CM Nievergelt, AD Sadovnick, RA Remick, PE Keck, SL McElroy, T Shekhtman, R McKinney& JR Kelsoe (2012) In Bipolar Disorders, Vol. 14, 71-79

Gender Differences in Nighttime Sleep and Daytime Napping as Predictors of Mortality in Older Adults: The Rancho Bernardo Study - KI Jung, CH Song, S Ancoli-Israel& E Barrett-Connor (2013) In Sleep Medicine, Vol. 14, 12-19

Gene Length May Contribute to Graded Transcriptional Responses in the Drosophila Embryo - P McHale, CM Mizutani, D Kosman, DL MacKay, M Belu, A Hermann, W McGinnis, E Bier& T Hwa (2011) In Developmental Biology, Vol. 360, 230-240

Gene Transfer in Leptolyngbya Sp Strain Bl0902, a Cyanobacterium Suitable for Production of Biomass and Bioproducts - A Taton, E Lis, DM Adin, G Dong, S Cookson, SA Kay, SS Golden& JW Golden (2012) In Plos One, Vol. 7,

Generalization and Discovery by Assuming Conserved Mechanisms: Cross-Species Research on Circadian Oscillators - W Bechtel (2009) In Philosophy of Science, Vol. 76, 762-773

Generalization and Multirate Models of Motor Adaptation - H Tanaka, JW Krakauer& TJ Sejnowski (2012) In Neural Computation, Vol. 24, 939-966

Genes and Environment: Novel, Functional Polymorphism in the Human Cathepsin L (Ctsl1) Promoter Disrupts a Xenobiotic Response Element (Xre) to Alter Transcription and Blood Pressure - N Mbewe-Campbell, ZY Wei, KX Zhang, RS Friese, M Mahata, AJ Schork, FW Rao, S Chiron, N Biswas, HS Kim, SK Mahata, J Waalen, CM Nievergelt, VY Hook& DT O'Connor (2012) In Journal of Hypertension, Vol. 30, 1961-1969

Genes Involved in Sex Pheromone Discrimination in Drosophila Melanogaster and Their Background-Dependent Effect - B Houot, S Fraichard, RJ Greenspan& JF Ferveur (2012) In Plos One, Vol. 7,

Genetic Circuits in Salmonella Typhimurium - A Prindle, J Selimkhanov, T Danino, P Samayoa, A Goldberg, SN Bhatia& J Hasty (2012) In Acs Synthetic Biology, Vol. 1, 458-464

Genetic Evidence That the Higher Plant Rab-D1 and Rab-D2 Gtpases Exhibit Distinct but Overlapping Interactions in the Early Secretory Pathway - H Pinheiro, M Samalova, N Geldner, J Chory, A Martinez& I Moore (2009) In Journal of Cell Science, Vol. 122, 3749-3758

Genetic Risk for Posttraumatic Stress in the Marine Resiliency Study (Mrs): Interrogation of the Entire Genome - CM Nievergelt, VB Risbrough, NJ Schork, DT O'Connor& DG Baker (2013) In Biological Psychiatry, Vol. 73, 66S-66S

Genome-Wide Association of Bipolar Disorder Suggests an Enrichment of Replicable Associations in Regions near Genes - EN Smith, DL Koller, C Panganiban, S Szelinger, P Zhang, JA Badner, TB Barrett, WH Berrettini, CS Bloss, W Byerley, W Coryell, HJ Edenberg, T Foroud, ES Gershon, TA Greenwood, Y Guo, M Hipolito, BJ Keating, WB Lawson, C Liu, PB Mahon, MG McInnis, FJ McMahon, R McKinney, SS Murray, CM Nievergelt, JI Nurnberger, EA Nwulia, JB Potash, J Rice, TG Schulze, WA Scheftner, PD Shilling, PP Zandi, S Zollner, DW Craig, NJ Schork& JR Kelsoe (2011) In Plos Genetics, Vol. 7,

Genome-Wide Association Study of 107 Phenotypes in Arabidopsis Thaliana Inbred Lines - S Atwell, YS Huang, BJ Vilhjalmsson, G Willems, M Horton, Y Li, DZ Meng, A Platt, AM Tarone, TT Hu, R Jiang, NW Muliyati, X Zhang, MA Amer, I Baxter, B Brachi, J Chory, C Dean, M Debieu, J de Meaux, JR Ecker, N Faure, JM Kniskern, JDG Jones, T Michael, A Nemri, F Roux, DE Salt, CL Tang, M Todesco, MB Traw, D Weigel, P Marjoram, JO Borevitz, J Bergelson& M Nordborg (2010) In Nature, Vol. 465, 627-631

Genome-Wide Association Study of Irritable Vs. Elated Mania Suggests Genetic Differences between Clinical Subtypes of Bipolar Disorder - TA Greenwood, JR Kelsoe& GSC Bipolar Genome Study Bi (2013) In Plos One, Vol. 8,

Genome-Wide Association Study of Temperament in Bipolar Disorder Reveals Significant Associations with Three Novel Loci - TA Greenwood, HS Akiskal, KK Akiskal, BG Study& JR Kelsoe (2012) In Biological Psychiatry, Vol. 72, 303-310

Genome-Wide Linkage Analysis of 972 Bipolar Pedigrees Using Single-Nucleotide Polymorphisms - JA Badner, D Koller, T Foroud, H Edenberg, JI Nurnberger, PP Zandi, VL Willour, FJ McMahon, JB Potash, M Hamshere, D Grozeva, E Green, G Kirov, I Jones, L Jones, N Craddock, D Morris, R Segurado, M Gill, D Sadovnick, R Remick, P Keck, J Kelsoe, M Ayub, A MacLean, D Blackwood, CY Liu, ES Gershon, W McMahon, GJ Lyon, R Robinson, J Ross& W Byerley (2012) In Molecular Psychiatry, Vol. 17, 818-826

Genomics-Aided Structure Prediction - JI Sulkowska, F Morcos, M Weigt, T Hwa& JN Onuchic (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 10340-10345

Genotyping Sleep Disorders Patients - DF Kripke, FF Shadan, A Dawson, JW Cronin, SM Jamil, AP Grizas, JA Koziol& LE Kline (2010) In Psychiatry Investigation, Vol. 7, 36-42

Gibberellins Accumulate in the Elongating Endodermal Cells of Arabidopsis Root - E Shani, R Weinstain, Y Zhang, C Castillejo, E Kaiserli, J Chory, RY Tsien& M Estelle (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 4834-4839

Global Profiling of Rice and Poplar Transcriptomes Highlights Key Conserved Circadian-Controlled Pathways and Cis-Regulatory Modules - SA Filichkin, G Breton, HD Priest, P Dharmawardhana, P Jaiswal, SE Fox, TP Michael, J Chory, SA Kay& TC Mockler (2011) In Plos One, Vol. 6,

Gnrh Induces the C-Fos Gene Via Phosphorylation of Srf by the Calcium/Calmodulin Kinase Ii Pathway - HA Ely, PL Mellon& D Coss (2011) In Molecular Endocrinology, Vol. 25, 669-680

Growth Rate-Dependent Global Effects on Gene Expression in Bacteria - S Klumpp, ZG Zhang& T Hwa (2009) In Cell, Vol. 139, 1366-1375

Heme Synthesis by Plastid Ferrochelatase I Regulates Nuclear Gene Expression in Plants - JD Woodson, JM Perez-Ruiz& J Chory (2011) In Current Biology, Vol. 21, 897-903

Hierarchical Model of Natural Images and the Origin of Scale Invariance - S SaremiTJ Sejnowski (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 3071-3076

High Frequencies of De Novo Cnvs in Bipolar Disorder and Schizophrenia - D Malhotra, S McCarthy, JJ Michaelson, V Vacic, KE Burdick, S Yoon, S Cichon, A Corvin, S Gary, ES Gershon, M Gill, M Karayiorgou, JR Kelsoe, O Krastoshevsky, V Krause, E Leibenluft, DL Levy, V Makarov, A Bhandari, AK Malhotra, FJ McMahon, MM Nothen, JB Potash, M Rietschel, TG Schulze& J Sebat (2011) In Neuron, Vol. 72, 951-963

High-Resolution Protein Complexes from Integrating Genomic Information with Molecular Simulation - A Schug, M Weigt, JN Onuchic, T Hwa& H Szurmant (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 22124-22129

Hip Pain While Using Lower Extremity Joints and Sleep Disturbances in Elderly White Women: Results from a Cross-Sectional Analysis - N Parimi, T Blackwell, KL Stone, LY Lui, S Ancoli-Israel, GJ Tranah, TA Hillier, ME Nevitt, NE Lane& S Study Osteoporotic Fractures (2012) In Arthritis Care & Research, Vol. 64, 1070-1078

Histone Lysine Demethylase Jarid1a Activates Clock-Bmal1 and Influences the Circadian Clock - L DiTacchio, HD Le, C Vollmers, M Hatori, M Witcher, J Secombe& S Panda (2011) In Science, Vol. 333, 1881-1885

Hormones in Synergy: Regulation of the Pituitary Gonadotropin Genes - VG Thackray, PL Mellon& D Coss (2010) In Molecular and Cellular Endocrinology, Vol. 314, 192-203

Hotspots of Aberrant Epigenomic Reprogramming in Human Induced Pluripotent Stem Cells - R Lister, M Pelizzola, YS Kida, RD Hawkins, JR Nery, G Hon, J Antosiewicz-Bourget, R O'Malley, R Castanon, S Klugman, M Downes, R Yu, R Stewart, B Ren, JA Thomson, RM Evans& JR Ecker (2011) In Nature, Vol. 471, 68-U84

How Can Philosophy Be a True Cognitive Science Discipline? - W Bechtel (2010) In Topics in Cognitive Science, Vol. 2, 357-366

Human and Mouse Adipose-Derived Cells Support Feeder-Independent Induction of Pluripotent Stem Cells - S Sugii, Y Kida, T Kawamura, J Suzuki, R Vassena, YQ Yin, MK Lutz, T Berggren, JCI Belmonte& RM Evans (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 3558-3563

Hypnotics' Association with Mortality or Cancer: A Matched Cohort Study - DF Kripke, RD Langer& LE Kline (2012) In Bmj Open, Vol. 2,

Hypothalamic Dysregulation and Infertility in Mice Lacking the Homeodomain Protein Six6 - R Larder, DD Clark, NLG Miller& PL Mellon (2011) In Journal of Neuroscience, Vol. 31, 426-438

Identification of Small Molecule Activators of Cryptochrome - T Hirota, JW Lee, PC St John, M Sawa, K Iwaisako, T Noguchi, PY Pongsawakul, T Sonntag, DK Welsh, DA Brenner, FJ Doyle, PG Schultz& SA Kay (2012) In Science, Vol. 337, 1094-1097

Idn1 and Idn2 Are Required for De Novo DNA Methylation in Arabidopsis Thaliana - I Ausin, TC Mockler, J Chory& SE Jacobsen (2009) In Nature Structural & Molecular Biology, Vol. 16, 1325-1327

Imbalance of Ionic Conductances Contributes to Diverse Symptoms of Demyelination - JS Coggan, SA Prescott, TM Bartol& TJ Sejnowski (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 20602-20609

Impairment of O-Antigen Production Confers Resistance to Grazing in a Model Amoeba-Cyanobacterium Predator-Prey System - R Simkovsky, EF Daniels, K Tang, SC Huynh, SS Golden& B Brahamsha (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 16678-16683

Improved Detection of Common Variants Associated with Schizophrenia and Bipolar Disorder Using Pleiotropy-Informed Conditional False Discovery Rate - OA Andreassen, WK Thompson, AJ Schork, S Ripke, M Mattingsdal, JR Kelsoe, KS Kendler, MC O'Donovan, D Rujescu, T Werge, P Sklar, JC Roddey, CH Chen, L McEvoy, RS Desikan, S Djurovic, AM Dale, PGCBD Grp& PGCSW Grp (2013) In Plos Genetics, Vol. 9,

In Vivo Gene Expression Dynamics of Tumor-Targeted Bacteria - T Danino, J Lo, A Prindle, J Hasty& SN Bhatia (2012) In Acs Synthetic Biology, Vol. 1, 465-470

In Vivo Modulation of 4e Binding Protein 1 (4e-Bp1) Phosphorylation by Watercress: A Pilot Study - SSS Alwi, BE Cavell, U Telang, ME Morris, BM Parry& G Packham (2010) In British Journal of Nutrition, Vol. 104, 1288-1296

In-Silico Patterning of Vascular Mesenchymal Cells in Three Dimensions - T Danino, D Volfson, SN Bhatia, L Tsimring& J Hasty (2011) In Plos One, Vol. 6,

Increased Sensitivity to Light-Induced Melatonin Suppression in Premenstrual Dysphoric Disorder - BL Parry, CJ Meliska, DL Sorenson, A Lopez, LF Martinez, RL Hauger& JA Elliott (2010) In Chronobiology International, Vol. 27, 1438-1453

Individual Differences in Circadian Waveform of Siberian Hamsters under Multiple Lighting Conditions - JA Evans, JA Elliott& MR Gorman (2012) In Journal of Biological Rhythms, Vol. 27, 410-419

Information-Theoretic Optimization of Chemical Sensors - A Vergara, MK Muezzinoglu, N Rulkov& R Huerta (2010) In Sensors and Actuators B-Chemical, Vol. 148, 298-306

Inositol-1,4,5-Trisphosphate Receptor Regulates Hepatic Gluconeogenesis in Fasting and Diabetes - YG Wang, G Li, J Goode, JC Paz, KF Ouyang, R Screaton, WH Fischer, J Chen, I Tabas& M Montminy (2012) In Nature, Vol. 485, 128-U166

Integrated Computational and Experimental Analysis of the Neuroendocrine Transcriptome in Genetic Hypertension Identifies Novel Control Points for the Cardiometabolic Syndrome - RS Friese, C Ye, CM Nievergelt, AJ Schork, NR Mahapatra, F Rao, PS Napolitan, J Waalen, GB Ehret, PB Munroe, GW Schmid-Schonbein, E Eskin& DT O'Connor (2012) In Circulation-Cardiovascular Genetics, Vol. 5, 430-440

Intense Pulsed Light Treatment of Chronic Mid-Body Achilles Tendinopathy a Double Blind Randomised Placebo-Controlled Trial - AM Hutchison, I Pallister, RM Evans, O Bodger, CJ Topliss, P Williams& DJ Beard (2013) In Bone & Joint Journal, Vol. 95B, 504-509

Interdependence of Cell Growth and Gene Expression: Origins and Consequences - M Scott, CW Gunderson, EM Mateescu, ZG Zhang& T Hwa (2010) In Science, Vol. 330, 1099-1102

Interplay between Spontaneous and Induced Brain Activity During Human Non-Rapid Eye Movement Sleep - TT Dang-Vu, M Bonjean, M Schabus, M Boly, A Darsaud, M Desseilles, C Degueldre, E Balteau, C Phillips, A Luxen, TJ Sejnowski& P Maquet (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 15438-15443

Intracellular Dynamics of Virtual Place Cells - S Romani, TJ Sejnowski& M Tsodyks (2011) In Neural Computation, Vol. 23, 651-655

Isothermal Titration Calorimetry and Surface Plasmon Resonance Allow Quantifying Substrate Binding to Different Binding Sites of Bacillus Subtilis Xylanase - S Cuyvers, E Dornez, M Abou Hachem, B Svensson, M Hothorn, J Chory, JA Delcour& CM Courtin (2012) In Analytical Biochemistry, Vol. 420, 90-92

Jumonji Domain Protein Jmjd5 Functions in Both the Plant and Human Circadian Systems - MA Jones, MF Covington, L DiTacchio, C Vollmers, S Panda& SL Harmer (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 21623-21628

Large-Scale Genome-Wide Association Analysis of Bipolar Disorder Identifies a New Susceptibility Locus near Odz4 - P Sklar, S Ripke, LJ Scott , OA Andreassen, S Cichon, N Craddock, HJ Edenberg, JI Nurnberger, M Rietschel, D Blackwood&A Corvin, M Flickinger, WH Guan, M Mattingsdal, A McQuillin, P Kwan, TF Wienker, M Daly, F Dudbridge, PA Holmans, DY Lin, M Burmeister, TA Greenwood, ML Hamshere, P Muglia, EN Smith, PP Zandi, CM Nievergelt, et.al Psychiat (2011) In Nature Genetics, Vol. 43, 977-U162

Leisure Activities, Caregiving Demands and Catecholamine Levels in Dementia Caregivers - EA Chattillion, BT Mausbach, SK Roepke, R von Kanel, PJ Mills, JE Dimsdale, M Allison, MG Ziegler, TL Patterson, S Ancoli-Israel& I Grant (2012) In Psychology & Health, Vol. 27, 1134-1149

Lethal Mitochondrial Cardiomyopathy in a Hypomorphic Med30 Mouse Mutant Is Ameliorated by Ketogenic Diet - P Krebs, WW Fan, YH Chen, K Tobita, MR Downes, MR Wood, L Sun, XH Li, Y Xia, N Ding, JM Spaeth, EMY Moresco, TG Boyer, CWY Lo, J Yen, RM Evans& B Beutler (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 19678-19682

Lifespan Daily Locomotor Activity Rhythms in a Mouse Model of Amyloid-Induced Neuropathology - MR GormanS Yellon (2010) In Chronobiology International, Vol. 27, 1159-1177

Lifespan Extension Induced by Ampk and Calcineurin Is Mediated by Crtc-1 and Creb - W Mair, I Morantte, APC Rodrigues, G Manning, M Montminy, RJ Shaw& A Dillin (2011) In Nature, Vol. 470, 404-U179

Light Signal Transduction: An Infinite Spectrum of Possibilities - J Chory (2010) In Plant Journal, Vol. 61, 982-991

Light Treatment Prevents Fatigue in Women Undergoing Chemotherapy for Breast Cancer - S Ancoli-Israel, M Rissling, A Neikrug, V Trofimenko, L Natarajan, BA Parker, S Lawton, P Desan& LQ Liu (2012) In Supportive Care in Cancer, Vol. 20, 1211-1219

Light-Driven Changes in Energy Metabolism Directly Entrain the Cyanobacterial Circadian Oscillator - MJ Rust, SS Golden& EK O'Shea (2011) In Science, Vol. 331, 220-223

Linking Mathematical Modeling with Human Neuroimaging to Segregate Verbal Working Memory Maintenance Processes from Stimulus Encoding - BS McKenna, GG Brown, SPA Drummond, TH Turner& QR Mano (2013) In Neuropsychology, Vol. 27, 243-255

Linking Photoreceptor Excitation to Changes in Plant Architecture - L Li, K Ljung, G Breton, RJ Schmitz, J Pruneda-Paz, C Cowing-Zitron, BJ Cole, LJ Ivans, UV Pedmale, HS Jung, JR Ecker, SA Kay& J Chory (2012) In Genes & Development, Vol. 26, 785-790

Local Circadian Clock Gates Cell Cycle Progression of Transient Amplifying Cells During Regenerative Hair Cycling - MV Plikus, C Vollmers, D de la Cruz, A Chaix, R Ramos, S Panda& CM Chuong (2013) In Proc Natl Acad Sci U S A, Vol. 110, 20

Looking Down, around, and Up: Mechanistic Explanation in Psychology - W Bechtel (2009) In Philosophical Psychology, Vol. 22, 543-564

Loss of Gstm1, a Nrf2 Target, Is Associated with Accelerated Progression of Hypertensive Kidney Disease in the African American Study of Kidney Disease (Aask) - J Chang, JZ Ma, Q Zeng, S Cechova, A Gantz, C Nievergelt, D O'Connor, M Lipkowitz& TH Le (2013) In American Journal of Physiology-Renal Physiology, Vol. 304, F348-F355

Macrophage Migratory Inhibitory Factor (Mif) May Be a Key Factor in Inflammation in Obstructive Sleep Apnea - KM Edwards, LM Tomfohr, PJ Mills, JA Bosch, S Ancoli-Israel, JS Loredo& J Dimsdale (2011) In Sleep, Vol. 34, 161-163

Making Gene Circuits Sing - A PrindleJ Hasty (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 16758-16759

Mechanism and Biological Explanation - W Bechtel (2011) In Philosophy of Science, Vol. 78, 533-557

Mechanism of Creb Recognition and Coactivation by the Creb-Regulated Transcriptional Coactivator Crtc2 - Q Luo, K Viste, JC Urday-Zaa, GS Kumar, WW Tsai, A Talai, KE Mayo, M Montminy& I Radhakrishnan (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 20865-20870

Mechanisms for Phase Shifting in Cortical Networks and Their Role in Communication through Coherence - PH TiesingaTJ Sejnowski (2010) In Frontiers in Human Neuroscience, Vol. 4,

Melanopsin Contributions to Irradiance Coding in the Thalamo-Cortical Visual System - TM Brown, C Gias, M Hatori, SR Keding, M Semo, PJ Coffey, J Gigg, HD Piggins, S Panda& RJ Lucas (2010) In Plos Biology, Vol. 8,

Meta-Analyses of Hypnotics and Infections: Eszopiclone, Ramelteon, Zaleplon, and Zolpidem - FL Joya, DF Kripke, RT Loving, A Dawson& LE Kline (2009) In Journal of Clinical Sleep Medicine, Vol. 5, 377-383

Metabolic Sugar Signal Promotes Arabidopsis Meristematic Proliferation Via G2 - A Skylar, F Sung, FX Hong, J Chory& XL Wu (2011) In Developmental Biology, Vol. 351, 82-89

Metformin-Mediated Bambi Expression in Hepatic Stellate Cells Induces Prosurvival Wnt/Beta-Catenin Signaling - N Subramaniam, MH Sherman, R Rao, C Wilson, S Coulter, AR Atkins, RM Evans, C Liddle& M Downes (2012) In Cancer Prevention Research, Vol. 5, 553-561

Methylation of a Phosphatase Specifies Dephosphorylation and Degradation of Activated Brassinosteroid Receptors - G Wu, XL Wang, XB Li, YJ Kamiya, MS Otegui& J Chory (2011) In Science Signaling, Vol. 4,

Microrheology with Optical Tweezers: Data Analysis - M Tassieri, RML Evans, RL Warren, NJ Bailey& JM Cooper (2012) In New Journal of Physics, Vol. 14,

Modelling Vesicular Release at Hippocampal Synapses - S Nadkarni, TM Bartol, TJ Sejnowski& H Levine (2010) In Plos Computational Biology, Vol. 6,

Modulation of Fatty Acid Synthase Degradation by Concerted Action of P38 Map Kinase, E3 Ligase Cop1, and Sh2-Tyrosine Phosphatase Shp2 - JX Yu, R Deng, HH Zhu, SS Zhang, CH Zhu, M Montminy, R Davis& GS Feng (2013) In Journal of Biological Chemistry, Vol. 288, 3823-3830

Molecular Organization of Drosophila Neuroendocrine Cells by Dimmed - D Park, T Hadzic, P Yin, J Rusch, K Abruzzi, M Rosbash, JB Skeath, S Panda, JV Sweedler& PH Taghert (2011) In Current Biology, Vol. 21, 1515-1524

Mortality Related to Actigraphic Long and Short Sleep - DF Kripke, RD Langer, JA Elliott, MR Klauber& KM Rex (2011) In Sleep Medicine, Vol. 12, 28-33

Msx1 Homeodomain Protein Represses the Alpha Gsu and Gnrh Receptor Genes During Gonadotrope Development - HM Xie, BD Cherrington, JD Meadows, EA Witham& PL Mellon (2013) In Molecular Endocrinology, Vol. 27, 422-436

Mtor Links Incretin Signaling to Hif Induction in Pancreatic Beta Cells - S Van de Velde, MF Hogan& M Montminy (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 16876-16882

Multiple Spike Time Patterns Occur at Bifurcation Points of Membrane Potential Dynamics - JV Toups, JM Fellous, PJ Thomas, TJ Sejnowski& PH Tiesinga (2012) In Plos Computational Biology, Vol. 8,

Mutational Analysis of the Necdin Gene in Patients with Congenital Isolated Hypogonadotropic Hypogonadism - D Beneduzzi, AK Iyer, EB Trarbach, AP Silveira-Neto, LG Silveira, C Tusset, K Yip, BB Mendonca, PL Mellon& AC Latronico (2011) In European Journal of Endocrinology, Vol. 165, 145-150

Nanotools for Neuroscience and Brain Activity Mapping - AP Alivisatos, AM Andrews, ES Boyden, M Chun, GM Church, K Deisseroth, JP Donoghue, SE Fraser, J Lippincott-Schwartz, LL Looger, S Masmanidis, PL McEuen, AV Nurmikko, H Park, DS Peterka, C Reid, ML Roukes, A Scherer, M Schnitzer, TJ Sejnowski, KL Shepard, D Tsao, G Turrigiano, PS Weiss, C Xu, R Yuste& XW Zhuang (2013) In Acs Nano, Vol. 7, 1850-1866

Natural Allelic Variation Underlying a Major Fitness Trade-Off in Arabidopsis Thaliana - M Todesco, S Balasubramanian, TT Hu, MB Traw, M Horton, P Epple, C Kuhns, S Sureshkumar, C Schwartz, C Lanz, RAE Laitinen, Y Huang, J Chory, V Lipka, JO Borevitz, JL Dangl, J Bergelson, M Nordborg& D Weigel (2010) In Nature, Vol. 465, 632-U129

Ncor1 Is a Conserved Physiological Modulator of Muscle Mass and Oxidative Function - H Yamamoto, EG Williams, L Mouchiroud, C Canto, WW Fan, M Downes, C Heligon, GD Barish, B Desvergne, RM Evans, K Schoonjans& J Auwerx (2011) In Cell, Vol. 147, 827-839

Need-Based Activation of Ammonium Uptake in Escherichia Coli - M Kim, ZG Zhang, H Okano, DL Yan, A Groisman& T Hwa (2012) In Molecular Systems Biology, Vol. 8,

Network Organization in Health and Disease: On Being a Reductionist and a Systems Biologist Too - W Bechtel (2013) In Pharmacopsychiatry, Vol. 46, S10-S21

Neurokinin B Causes Acute Gnrh Secretion and Repression of Gnrh Transcription in Gt1-7 Gnrh Neurons - CA Glidewell-Kenney, PP Shao, AK Iyer, AMH Grove, JD Meadows& PL Mellon (2013) In Molecular Endocrinology, Vol. 27, 437-454

Neuropeptide Y (Npy) Genetic Variation in the Human Promoter Alters Glucocorticoid Signaling, Yielding Increased Npy Secretion and Stress Responses - KX Zhang, FW Rao, JP Miramontes-Gonzalez, CM Hightower, B Vaught, YH Chen, TA Greenwood, AJ Schork, L Wang, M Mahata, M Stridsberg, S Khandrika, N Biswas, MM Fung, J Waalen, RP Middelberg, AC Heath, GW Montgomery, NG Martin, JB Whitfield, DG Baker, NJ Schork, CM Nievergelt& DT O'Connor (2012) In Journal of the American College of Cardiology, Vol. 60, 1678-1689

Neuropeptide Y (Npy): Genetic Variation in the Human Promoter Alters Glucocorticoid Signaling, Yielding Increased Npy Secretion and Stress Responses - KX Zhang, CMM Nievergelt, D Baker& DT O'Connor (2013) In Biological Psychiatry, Vol. 73, 65S-65S

Neuroticism Mediates the Relationship between Childhood Adversity and Adult Sleep Quality - HJ Ramsawh, S Ancoli-Israel, SG Sullivan, CA Hitchcock& MB Stein (2011) In Behavioral Sleep Medicine, Vol. 9, 130-143

Neurotransmitter Switching in the Adult Brain Regulates Behavior - D Dulcis, P Jamshidi, S Leutgeb& NC Spitzer (2013) In Science, Vol. 340, 449-453

Nuclear Receptor Corepressor Smrt Regulates Mitochondrial Oxidative Metabolism and Mediates Aging-Related Metabolic Deterioration - SM Reilly, P Bhargava, SH Liu, MR Gangl, G Gorgun, RR Nofsinger, RM Evans, L Qi, FB Hu& CH Lee (2010) In Cell Metabolism, Vol. 12, 643-653

Number of Lapses During the Psychomotor Vigilance Task as an Objective Measure of Fatigue - IS Lee, WA Bardwell, S Ancoli-Israel& JE Dimsdale (2010) In Journal of Clinical Sleep Medicine, Vol. 6, 163-168

O-Glcnac Transferase Is Involved in Glucocorticoid Receptor-Mediated Transrepression - MD Li, HB Ruan, JP Singh, L Zhao, TT Zhao, S Azarhoush, J Wu, RM Evans& XY Yang (2012) In Journal of Biological Chemistry, Vol. 287, 12904-12912

Obstructive Sleep Apnea and Age a Double Insult to Brain Function? - L Ayalon, S Ancoli-Israel& SPA Drummond (2010) In American Journal of Respiratory and Critical Care Medicine, Vol. 182, 413-419

Obstructive Sleep Apnea During Rapid Eye Movement Sleep, Daytime Sleepiness, and Quality of Life in Older Men in Osteoporotic Fractures in Men (Mros) Sleep Study - A Khan, SL Harrison, EJ Kezirian, S Ancoli-Israel, D O'Hearn, E Orwoll, S Redline, K Ensrud, KL Stone& S Osteoporotic Fractures Men MrOs (2013) In Journal of Clinical Sleep Medicine, Vol. 9, 191-+

On Ribosome Load, Codon Bias and Protein Abundance - S Klumpp, JJ Dong& T Hwa (2012) In Plos One, Vol. 7,

On the Rapidity of Antibiotic Resistance Evolution Facilitated by a Concentration Gradient - R Hermsen, JB Deris& T Hwa (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 10775-10780

Origin of Intrinsic Irregular Firing in Cortical Interneurons - KM Stiefel, B Englitz& TJ Sejnowski (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 7886-7891

Orphan Nuclear Receptor Tlx Activates Wnt/Beta-Catenin Signalling to Stimulate Neural Stem Cell Proliferation and Self-Renewal - QH Qu, GQ Sun, WW Li, S Yang, P Ye, CNA Zhao, RT Yu, FH Gage, RM Evans& YH Shi (2010) In Nature Cell Biology, Vol. 12, 31-U80

Overcoming Fluctuation and Leakage Problems in the Quantification of Intracellular 2-Oxoglutarate Levels in Escherichia Coli - DL Yan, P Lenz& T Hwa (2011) In Applied and Environmental Microbiology, Vol. 77, 6763-6771

Overnight Changes of Immune Parameters and Catecholamines Are Associated with Mood and Stress - W Rief, PJ Mills, S Ancoli-Israel, MG Ziegler, MA Pung& JE Dimsdale (2010) In Psychosomatic Medicine, Vol. 72, 755-762

Oxidized Quinones Signal Onset of Darkness Directly to the Cyanobacterial Circadian Oscillator - YI Kim, DJ Vinyard, GM Ananyev, GC Dismukes& SS Golden (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 17765-17769

Paraoxonase 1 (Pon1) C/T-108 Association with Longitudinal Mean Arterial Blood Pressure - V Bhatnagar, L Liu, CM Nievergelt, E Richard, VH Brophy, B Pandey, MS Lipkowitz& DT O'Connor (2012) In American Journal of Hypertension, Vol. 25, 1188-1194

Pathway-Specific Genetic Attenuation of Glutamate Release Alters Select Features of Competition-Based Visual Circuit Refinement - SM Koch, CG Dela Cruz, TS Hnasko, RH Edwards, AD Huberman& EM Ullian (2011) In Neuron, Vol. 71, 235-242

Pattern of Trauma Determines the Threshold for Epileptic Activity in a Model of Cortical Deafferentation - V Volman, M Bazhenov& TJ Sejnowski (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 15402-15407

Patterns of Plant Subcellular Responses to Successful Oomycete Infections Reveal Differences in Host Cell Reprogramming and Endocytic Trafficking - YJ Lu, S Schornack, T Spallek, N Geldner, J Chory, S Schellmann, K Schumacher, S Kamoun& S Robatzek (2012) In Cellular Microbiology, Vol. 14, 682-697

Pear Model and Sleep Outcomes in Dementia Caregivers: Influence of Activity Restriction and Pleasant Events on Sleep Disturbances - RC Moore, AL Harmell, E Chattillion, S Ancoli-Israel, I Grant& BT Mausbach (2011) In International Psychogeriatrics, Vol. 23, 1462-1469

Pelage Insulation, Litter Size, and Ambient Temperature Impact Maternal Energy Intake and Offspring Development During Lactation - MJ Paul, C Tuthill, AS Kauffman& I Zucker (2010) In Physiology & Behavior, Vol. 100, 128-134

Per2 Variation Is Associated with Diurnal Preference in a Korean Young Population - HJ Lee, L Kim, SG Kang, HK Yoon, JE Choi, YM Park, SJ Kim& DF Kripke (2011) In Behavior Genetics, Vol. 41, 273-277

Persistent Cell-Autonomous Circadian Oscillations in Fibroblasts Revealed by Six-Week Single-Cell Imaging of Per2::Luc Bioluminescence - TL Leise, CW Wang, PJ Gitis& DK Welsh (2012) In Plos One, Vol. 7,

Persistent Versus Transient Depressive Symptoms in Relation to Platelet Hyperactivation: A Longitudinal Analysis of Dementia Caregivers - K Aschbacher, SK Roepke, R von Kanel, PJ Mills, BT Mausbach, TL Patterson, JE Dimsdale, MG Ziegler, S Ancoli-Israel& I Grant (2009) In Journal of Affective Disorders, Vol. 116, 80-87

Pharmgkb Summary: Carbamazepine Pathway - CF Thorn, SG Leckband, J Kelsoe, JS Leeder, DJ Muller, TE Klein& RB Altman (2011) In Pharmacogenetics and Genomics, Vol. 21, 906-910

Photic Sensitivity for Circadian Response to Light Varies with Photoperiod - G Glickman, IC Webb, JA Elliott, RM Baltazar, ME Reale, MN Lehman& MR Gorman (2012) In Journal of Biological Rhythms, Vol. 27, 308-318

Pimavanserin Tartrate, a 5-Ht2a Receptor Inverse Agonist, Increases Slow Wave Sleep as Measured by Polysomnography in Healthy Adult Volunteers - S Ancoli-Israel, KE Vanover, DM Weiner, RE Davis& DP van Kammen (2011) In Sleep Medicine, Vol. 12, 134-141

Porphyrins Promote the Association of Genomes Uncoupled 4 and a Mg-Chelatase Subunit with Chloroplast Membranes - ND Adhikari, R Orler, J Chory, JE Froehlich& RM Larkin (2009) In Journal of Biological Chemistry, Vol. 284, 24783-24796

Postmenopausal Hormones and Sleep Quality in the Elderly: A Population Based Study - GJ Tranah, N Parimi, T Blackwell, S Ancoli-Israel, KE Ensrud, JA Cauley, S Redline, N Lane, ML Paudel, TA Hillier, K Yaffe, SR Cummings& KL Stone (2010) In Bmc Womens Health, Vol. 10,

Ppar Delta Activation Promotes Stratum Corneum Formation and Epidermal Permeability Barrier Development During Late Gestation - YJ Jiang, G Barish, B Lu, RM Evans, D Crumrine, M Schmuth, PM Elias& KR Feingold (2010) In Journal of Investigative Dermatology, Vol. 130, 511-519

Ppar Gamma Activation in Adipocytes Is Sufficient for Systemic Insulin Sensitization - S Sugii, P Olson, DD Sears, M Saberi, AR Atkins, GD Barish, SH Hong, GL Castro, YQ Yin, MC Nelson, G Hsiao, DR Greaves, M Downes, RT Yu, JM Olefsky& RM Evans (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 22504-22509

Pparg Regulates Gonadotropin-Releasing Hormone Signaling in Lbetat2 Cells in Vitro and Pituitary Gonadotroph Function in Vivo in Mice - S Sharma, PM Sharma, DS Mistry, RJ Chang, JM Olefsky, PL Mellon& NJG Webster (2011) In Biology of Reproduction, Vol. 84, 466-475

Predictors of Risk and Resilience for Posttraumatic Stress Disorder among Ground Combat Marines: Methods of the Marine Resiliency Study - DG Baker, WP Nash, BT Litz, MA Geyer, VB Risbrough, CM Nievergelt, DT O'Connor, GE Larson, NJ Schork, JJ Vasterling, PS Hammer, JA Webb-Murphy& MRS Team (2012) In Preventing Chronic Disease, Vol. 9,

Prefrontal Atrophy, Disrupted Nrem Slow Waves and Impaired Hippocampal-Dependent Memory in Aging - BA Mander, V Rao, B Lu, JM Saletin, JR Lindquist, S Ancoli-Israel, W Jagust& MP Walker (2013) In Nature Neuroscience, Vol. 16, 357-364

Pregnane-X-Receptor Controls Hepatic Glucuronidation During Pregnancy and Neonatal Development in Humanized Ugt1 Mice - SJ Chen, MF Yueh, RM Evans& RH Tukey (2012) In Hepatology, Vol. 56, 658-667

Preliminary Evidence for a Relationship between Sleep Disturbance and Global Attributional Style in Depression - PL Haynes, S Ancoli-Israel, CM Walter& JR McQuaid (2012) In Cognitive Therapy and Research, Vol. 36, 140-148

Premorbid Multivariate Markers of Neurodevelopmental Instability in the Prediction of Adult Schizophrenia-Spectrum Disorder: A High-Risk Prospective Investigation - S Golembo-Smith, J Schiffman, E Kline, HJ Sorensen, EL Mortensen, L Stapleton, K Hayashi, NM Michelsen, M Ekstrom& S Mednick (2012) In Schizophrenia Research, Vol. 139, 129-135

Prenatal Exposure to Low Levels of Androgen Accelerates Female Puberty Onset and Reproductive Senescence in Mice - EA Witham, JD Meadows, S Shojaei, AS Kauffman& PL Mellon (2012) In Endocrinology, Vol. 153, 4522-4532

Prescribing Data in General Practice Demonstration (Pdgpd) Project - a Cluster Randomised Controlled Trial of a Quality Improvement Intervention to Achieve Better Prescribing for Chronic Heart Failure and Hypertension - M Williamson, M Cardona-Morrell, JD Elliott, JF Reeve, NP Stocks, J Emery, JM Mackson& JM Gunn (2012) In Bmc Health Services Research, Vol. 12,

Prevalence, Demographics, and Psychological Associations of Sleep Disruption in Patients with Cancer: University of Rochester Cancer Center-Community Clinical Oncology Program - OG Palesh, JA Roscoe, KM Mustian, T Roth, J Savard, S Ancoli-Israel, C Heckler, JQ Purnell, MC Janelsins& GR Morrow (2010) In Journal of Clinical Oncology, Vol. 28, 292-298

Problem Behavior of Dementia Patients Predicts Low-Grade Hypercoagulability in Spousal Caregivers - R von Kanel, BT Mausbach, JE Dimsdale, PJ Mills, TL Patterson, S Ancoli-Israel, MG Ziegler, SK Roepke, M Allison& I Grant (2010) In Journals of Gerontology Series a-Biological Sciences and Medical Sciences, Vol. 65, 1004-1011

Proteasome-Mediated Turnover of Arabidopsis Med25 Is Coupled to the Activation of Flowering Locus T Transcription - S Inigo, AN Giraldez, J Chory& PD Cerdan (2012) In Plant Physiology, Vol. 160, 1662-1673

Protection from Liver Fibrosis by a Peroxisome Proliferator-Activated Receptor Delta Agonist - K Iwaisako, M Haimerl, YH Paik, K Taura, Y Kodama, C Sirlin, E Yu, RT Yu, M Downes, RM Evans, DA Brenner& B Schnabl (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, E1369-E1376

Pyr/Pyl/Rcar Family Members Are Major in-Vivo Abi1 Protein Phosphatase 2c-Interacting Proteins in Arabidopsis - N Nishimura, A Sarkeshik, K Nito, SY Park, A Wang, PC Carvalho, S Lee, DF Caddell, SR Cutler, J Chory, JR Yates& JI Schroeder (2010) In Plant Journal, Vol. 61, 290-299

Quantification of Circadian Rhythms in Single Cells - PO Westermark, DK Welsh, H Okamura& H Herzel (2009) In Plos Computational Biology, Vol. 5,

Quantifying the Sequence-Function Relation in Gene Silencing by Bacterial Small Rnas - Y Hao, ZJ Zhang, DW Erickson, M Huang, YW Huang, JB Li, T Hwa& HL Shi (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 12473-12478

Queueing up for Enzymatic Processing: Correlated Signaling through Coupled Degradation - NA Cookson, WH Mather, T Danino, O Mondragon-Palomino, RJ Williams, LS Tsimring& J Hasty (2011) In Molecular Systems Biology, Vol. 7,

Rapid, Combinatorial Analysis of Membrane Compartments in Intact Plants with a Multicolor Marker Set - N Geldner, V Denervaud-Tendon, DL Hyman, U Mayer, YD Stierhof& J Chory (2009) In Plant Journal, Vol. 59, 169-178

Real and Effective Thermal Equilibrium in Artificial Square Spin Ices - JP Morgan, J Akerman, A Stein, C Phatak, RML Evans, S Langridge& CH Marrows (2013) In Physical Review B, Vol. 87,

Recent Advances in Single-Cell Studies of Gene Regulation - J Selimkhanov, J Hasty& LS Tsimring (2012) In Current Opinion in Biotechnology, Vol. 23, 34-40

Reconsidering the Role of Sleep for Motor Memory - DJ CaiTC Rickard (2009) In Behavioral Neuroscience, Vol. 123, 1153-1157

Reduced Phase-Advance of Plasma Melatonin after Bright Morning Light in the Luteal, but Not Follicular, Menstrual Cycle Phase in Premenstrual Dysphoric Disorder: An Extended Study - BL Parry, CJ Meliska, DL Sorenson, LF Martinez, AM Lopez, JA Elliott& RL Hauger (2011) In Chronobiology International, Vol. 28, 415-424

Regular Physical Activity Moderates Cardiometabolic Risk in Alzheimer's Caregivers - R von Kanel, BT Mausbach, JE Dimsdale, PJ Mills, TL Patterson, S Ancoli-Israel, MG Ziegler, SK Roepke, AL Harmell, M Allison& I Grant (2011) In Medicine and Science in Sports and Exercise, Vol. 43, 181-189

Regulating the Arnt/Tacc3 Axis: Multiple Approaches to Manipulating Protein/Protein Interactions with Small Molecules - YR Guo, CL Partch, J Key, PB Card, V Pashkov, A Patel, RK Bruick, H Wurdak& KH Gardner (2013) In Acs Chemical Biology, Vol. 8, 626-635

Regulation of Circadian Behaviour and Metabolism by Rev-Erb-Alpha and Rev-Erb-Beta - H Cho, X Zhao, M Hatori, RT Yu, GD Barish, MT Lam, LW Chong, L DiTacchio, AR Atkins, CK Glass, C Liddle, J Auwerx, M Downes, S Panda& RM Evans (2012) In Nature, Vol. 485, 123-127

Regulation of Kiss1 Expression by Sex Steroids in the Amygdala of the Rat and Mouse - J Kim, SJ Semaan, DK Clifton, RA Steiner, S Dhamija& AS Kauffman (2011) In Endocrinology, Vol. 152, 2020-2030

Relationship between Chronic Stress and Carotid Intima-Media Thickness (Imt) in Elderly Alzheimer's Disease Caregivers - SK Roepke, M Allison, R Von Konel, BT Mausbach, EA Chattillion, AL Harmell, TL Patterson, JE Dimsdale, PJ Mills, MG Ziegler, S Ancoli-Israel& I Grant (2012) In Stress-the International Journal on the Biology of Stress, Vol. 15, 121-129

Relationship of Menopausal Status and Climacteric Symptoms to Sleep in Women Undergoing Chemotherapy - MB Rissling, LQ Liu, L Natarajan, F He& S Ancoli-Israel (2011) In Supportive Care in Cancer, Vol. 19, 1107-1115

Relationship of Morningness-Eveningness Questionnaire Score to Melatonin and Sleep Timing, Body Mass Index and Atypical Depressive Symptoms in Peri- and Post-Menopausal Women - CJ Meliska, LF Martinez, AM Lopez, DL Sorenson, S Nowakowski& BL Parry (2011) In Psychiatry Research, Vol. 188, 88-95

Relationships among Dietary Nutrients and Subjective Sleep, Objective Sleep, and Napping in Women - MA Grandner, DF Kripke, N Naidoo& RD Langer (2010) In Sleep Medicine, Vol. 11, 180-184

Relationships among Sleepiness, Sleep Time, and Psychological Functioning in Adolescents - M Moore, HL Kirchner, D Drotar, N Johnson, C Rosen, S Ancoli-Israel& S Redline (2009) In Journal of Pediatric Psychology, Vol. 34, 1175-1183

Relationships between Clinical Characteristics and Nocturnal Cardiac Autonomic Activity in Parkinson's Disease - N Covassin, AB Neikrug, LQ Liu, J Maglione, L Natarajan, J Corey-Bloom, JS Loredo, BW Palmer, LS Redwine& S Ancoli-Israel (2012) In Autonomic Neuroscience-Basic & Clinical, Vol. 171, 85-88

Reliability and Validity of the Pittsburgh Sleep Quality Index and the Epworth Sleepiness Scale in Older Men - AP Spira, SA Beaudreau, KL Stone, EJ Kezirian, LY Lui, S Redline, S Ancoli-Israel, K Ensrud, A Stewart& S Osteoporotic Fractures Men (2012) In Journals of Gerontology Series a-Biological Sciences and Medical Sciences, Vol. 67, 433-439

Rem, Not Incubation, Improves Creativity by Priming Associative Networks - DJ Cai, SA Mednick, EM Harrison, JC Kanady& SC Mednick (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 10130-10134

Research Resource: Comparative Nuclear Receptor Atlas: Basal and Activated Peritoneal B-1 and B-2 Cells - CJ Diehl, GD Barish, M Downes, MY Chou, S Heinz, CK Glass, RM Evans& JL Witztum (2011) In Molecular Endocrinology, Vol. 25, 529-545

Rest/Activity Rhythms and Cardiovascular Disease in Older Men - ML Paudel, BC Taylor, S Ancoli-Israel, KL Stone, G Tranah, S Redline, E Barrett-Connor, ML Stefanick, KE Ensrud& OSS Osteoporotic Fractures Men Mr (2011) In Chronobiology International, Vol. 28, 258-266

Rest/Activity Rhythms and Mortality Rates in Older Men: Mros Sleep Study - ML Paudel, BC Taylor, S Ancoli-Israel, T Blackwell, KL Stone, G Tranah, S Redline, SR Cummings, KE Ensrud& OS Osteoporotic Fractures Men Mr (2010) In Chronobiology International, Vol. 27, 363-377

Revascularization of Ischemic Skeletal Muscle by Estrogen-Related Receptor-Gamma - A Matsakas, V Yadav, S Lorca, RM Evans& VA Narkar (2012) In Circulation Research, Vol. 110, 1087-1096

Reversible Adenylylation of Glutamine Synthetase Is Dynamically Counterbalanced During Steady-State Growth of Escherichia Coile - H Okano, T Hwa, P Lenz& DL Yan (2010) In Journal of Molecular Biology, Vol. 404, 522-536

Rfamide-Related Peptide-3 Receptor Gene Expression in Gnrh and Kisspeptin Neurons and Gnrh-Dependent Mechanism of Action - MZ Rizwan, MC Poling, M Corr, PA Cornes, RA Augustine, JH Quennell, AS Kauffman& GM Anderson (2012) In Endocrinology, Vol. 153, 3770-3779

Rhythmic Conidiation in Constant Light in Vivid Mutants of Neurospora Crassa - K Schneider, S Perrino, K Oelhafen, S Li, A Zatsepin, P Lakin-Thomas& S Brody (2009) In Genetics, Vol. 181, 917-931

Rhythmic Ring-Ring Stacking Drives the Circadian Oscillator Clockwise - YG Chang, R Tseng, NW Kuo& A LiWang (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 16847-16851

Rosiglitazone Activation of Ppar Gamma Suppresses Fractalkine Signaling - YH WanRM Evans (2010) In Journal of Molecular Endocrinology, Vol. 44, 135-142

Runt-Related Transcription Factors Impair Activin Induction of the Follicle-Stimulating Hormone Beta-Subunit Gene - KM Breen, VG Thackray, D Coss& PL Mellon (2010) In Endocrinology, Vol. 151, 2669-2680

Screening for Adolescent Anxiety Disorders in a Pediatric Emergency Department - HJ Ramsawh, DA Chavira, JT Kanegaye, S Ancoli-Israel, PJ Madati& MB Stein (2012) In Pediatric

Emergency Care, Vol. 28, 1041-1047

Seasonal Regulation of Reproduction: Altered Role of Melatonin under Naturalistic Conditions in Hamsters - MP Butler, KW Turner, JH Park, EE Schoomer, I Zucker& MR Gorman (2010) In Proceedings of the Royal Society B-Biological Sciences, Vol. 277, 2867-2874

Self-Efficacy Buffers the Relationship between Dementia Caregiving Stress and Circulating Concentrations of the Proinflammatory Cytokine Interleukin-6 - BT Mausbach, R von Kanel, SK Roepke, R Moore, TL Patterson, PJ Mills, JE Dimsdale, MG Ziegler, S Ancoli-Israel, M Allison& I Grant (2011) In American Journal of Geriatric Psychiatry, Vol. 19, 64-71

Self-Reported Long Sleep in Older Adults Is Closely Related to Objective Time in Bed - CE Kline, MR Zielinski, TM Devlin, DF Kripke, RK Bogan& SD Youngstedt (2010) In Sleep and Biological Rhythms, Vol. 8, 42-51

Sequential Establishment of Stripe Patterns in an Expanding Cell Population - CL Liu, XF Fu, LL Liu, XJ Ren, CKL Chau, SH Li, L Xiang, HL Zeng, GH Chen, LH Tang, P Lenz, XD Cui, W Huang, T Hwa& JD Huang (2011) In Science, Vol. 334, 238-241

Sex Differences in the Regulation of Kiss1/Nkb Neurons in Juvenile Mice: Implications for the Timing of Puberty - AS Kauffman, VM Navarro, J Kim, DK Clifton& RA Steiner (2009) In American Journal of Physiology-Endocrinology and Metabolism, Vol. 297, E1212-E1221

Sexual Differentiation and Development of Forebrain Reproductive Circuits - SJ SemaanAS Kauffman (2010) In Current Opinion in Neurobiology, Vol. 20, 424-431

Sexually Dimorphic Testosterone Secretion in Prenatal and Neonatal Mice Is Independent of Kisspeptin-Kiss1r and Gnrh Signaling - MC PolingAS Kauffman (2012) In Endocrinology, Vol. 153, 782-793

Short Wavelength Light Administered Just Prior to Waking: A Pilot Study - MA Grandner, DF Kripke, J Elliott& R Cole (2013) In Biological Rhythm Research, Vol. 44, 13-32

Short-Term Plasticity Constrains Spatial Organization of a Hippocampal Presynaptic Terminal - S Nadkarni, TM Bartol, CF Stevens, TJ Sejnowski& H Levine (2012) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 109, 14657-14662

Shunting Inhibition Controls the Gain Modulation Mediated by Asynchronous Neurotransmitter Release in Early Development - V Volman, H Levine& TJ Sejnowski (2010) In Plos Computational Biology, Vol. 6,

Sigma Factor-Mediated Plastid Retrograde Signals Control Nuclear Gene Expression - JD Woodson, JM Perez-Ruiz, RJ Schmitz, JR Ecker& J Chory (2013) In Plant Journal, Vol. 73, 1-13

Simplicity and Complexity in the Cyanobacterial Circadian Clock Mechanism - GG Dong, YI Kim& SS Golden (2010) In Current Opinion in Genetics & Development, Vol. 20, 619-625

Single Nucleotide Polymorphisms and Haplotypes in Native American Populations - JR Kidd, F Friedlaender, AJ Pakstis, M Furtado, RX Fang, XD Wang, CM Nievergelt& KK Kidd (2011) In American Journal of Physical Anthropology, Vol. 146, 495-502

Skeletal Muscle Nur77 Expression Enhances Oxidative Metabolism and Substrate Utilization - LC Chao, K Wroblewski, OR Ilkayeva, RD Stevens, J Bain, GA Meyer, S Schenk, L Martinez, L Vergnes, VA Narkar, BG Drew, C Hong, R Boyadjian, AL Hevener, RM Evans, K Reue, MJ Spencer, CB Newgard& P Tontonoz (2012) In Journal of Lipid Research, Vol. 53, 2610-2619

Sleep and Biomarkers of Atherosclerosis in Elderly Alzheimer Caregivers and Controls - R von Kanel, S Ancoli-Israel, JE Dimsdale, PJ Mills, BT Mausbach, MG Ziegler, TL Patterson& I Grant (2010) In Gerontology, Vol. 56, 41-50

Sleep and Its Disorders in Aging Populations - S Ancoli-Israel (2009) In Sleep Medicine, Vol. 10, S7-S11

Sleep and Physical Functioning in Family Caregivers of Older Adults with Memory Impairment - AP Spira, L Friedman, SA Beaudreau, S Ancoli-Israel, B Hernandez, J Sheikh& J Yesavage (2010) In International Psychogeriatrics, Vol. 22, 306-311

Sleep Architecture in Adolescent Marijuana and Alcohol Users During Acute and Extended Abstinence - M Cohen-Zion, SPA Drummond, CB Padula, J Winward, J Kanady, KL Medina& SF Tapert (2009) In Addictive Behaviors, Vol. 34, 976-979

Sleep Characteristics of Self-Reported Long Sleepers - SR Patel, T Blackwell, S Ancoli-Israel, KL Stone& OS Osteoporotic Fractures Men Mr (2012) In Sleep, Vol. 35, 641-648

Sleep Disorders in the Older Adult - a Mini-Review - AB NeikrugS Ancoli-Israel (2010) In Gerontology, Vol. 56, 181-189

Sleep Disturbances and Frailty Status in Older Community-Dwelling Men - KE Ensrud, TL Blackwell, S Redline, S Ancoli-Israel, ML Paudel, PM Cawthon, TTL Dam, E Barrett-Connor, PC Leung, KL Stone& G Osteoporotic Fractures Men Study (2009) In Journal of the American Geriatrics Society, Vol. 57, 2085-2093

Sleep Disturbances and Risk of Frailty and Mortality in Older Men - KE Ensrud, TL Blackwell, S Ancoli-Israel, S Redline, PM Cawthon, ML Paudel, TTL Dam& KL Stone (2012) In Sleep Medicine, Vol. 13, 1217-1225

Sleep Disturbances in Nursing Homes - AB NeikrugS Ancoli-Israel (2010) In Journal of Nutrition Health & Aging, Vol. 14, 207-211

Sleep Health in Us Hispanic Population - JS Loredo, X Soler, W Bardwell, S Ancoli-Israel, JE Dimsdale& LA Palinkas (2010) In Sleep, Vol. 33, 962-967

Sleep in Spousal Alzheimer Caregivers: A Longitudinal Study with a Focus on the Effects of Major Patient Transitions on Sleep - R von Kanel, BT Mausbach, S Ancoli-Israel, JE Dimsdale, PJ Mills, TL Patterson, MG Ziegler, SK Roepke, EA Chattillion, M Allison& I Grant (2012) In Sleep, Vol. 35, 247-255

Sleep Selectively Enhances Hippocampus-Dependent Memory in Mice - DJ Cai, T Shuman, MR Gorman, JR Sage& SG Anagnostaras (2009) In Behavioral Neuroscience, Vol. 123, 713-719

Sleep, Type 2 Diabetes, Dyslipidemia, and Hypertension in Elderly Alzheimer's Caregivers - J Schwartz, MA Allison, S Ancoli-Israel, MF Hovell, RE Patterson, L Natarajan, SJ Marshall& I Grant (2013) In Archives of Gerontology and Geriatrics, Vol. 57, 70-77

Sleep-Disordered Breathing, Hypoxia, and Risk of Mild Cognitive Impairment and Dementia in Older Women - K Yaffe, AM Laffan, SL Harrison, S Redline, AP Spira, KE Ensrud, S Ancoli-Israel& KL Stone (2011) In Jama-Journal of the American Medical Association, Vol. 306, 613-619

Sleepless, a Ly-6/Neurotoxin Family Member, Regulates the Levels, Localization and Activity of Shaker - MN Wu, WJ Joiner, T Dean, ZF Yue, CJ Smith, DC Chen, T Hoshi, A Sehgal& K Koh (2010) In Nature Neuroscience, Vol. 13, 69-U229

Smoke-Derived Karrikin Perception by the Alpha/Beta-Hydrolase Kai2 from Arabidopsis - YX Guo, ZY Zheng, JJ La Clair, J Chory& JP Noel (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 8284-8289

Sources and Sinks: A Stochastic Model of Evolution in Heterogeneous Environments - R HermsenT Hwa (2010) In Physical Review Letters, Vol. 105,

Specificity of Learning through Memory Retrieval Practice: The Case of Addition and Subtraction - D Bajic, J Kwak& TC Rickard (2011) In Psychonomic Bulletin & Review, Vol. 18, 1148-1155

Speed, Sensitivity, and Bistability in Auto-Activating Signaling Circuits - R Hermsen, DW Erickson& T Hwa (2011) In Plos Computational Biology, Vol. 7,

Spinodal Fractionation in a Polydisperse Square-Well Fluid - JJ WilliamsonRML Evans (2012) In Physical Review E, Vol. 86,

Sry-Box-Containing Gene 2 Regulation of Nuclear Receptor Tailless (Tlx) Transcription in Adult Neural Stem Cells - K Shimozaki, CL Zhang, H Suh, AM Denli, RM Evans& FH Gage (2012) In Journal of Biological Chemistry, Vol. 287, 5969-5978

Stat6 Transcription Factor Is a Facilitator of the Nuclear Receptor Ppar Gamma-Regulated Gene Expression in Macrophages and Dendritic Cells - A Szanto, BL Balint, ZS Nagy, E Barta, D Balazs, A Pap, L Szeles, S Poliska, M Oros, RM Evans, Y Barak, J Schwabe& L Nagy (2010) In Immunity, Vol. 33, 699-712

Stimpy Mediates Cytokinin Signaling During Shoot Meristem Establishment in Arabidopsis Seedlings - A Skylar, FX Hong, J Chory, D Weigel& XL Wu (2010) In Development, Vol. 137, 541-549

Streaming Instability in Growing Cell Populations - W Mather, O Mondragon-Palomino, T Danino, J Hasty& LS Tsimring (2010) In Physical Review Letters, Vol. 104,

Stress Levels of Glucocorticoids Inhibit Lh Beta-Subunit Gene Expression in Gonadotrope Cells - KM Breen, VG Thackray, T Hsu, RA Mak-McCully, D Coss& PL Mellon (2012) In Molecular Endocrinology, Vol. 26, 1716-1731

Stripe Formation in Bacterial Systems with Density-Suppressed Motility - XF Fu, LH Tang, CL Liu, JD Huang, T Hwa& P Lenz (2012) In Physical Review Letters, Vol. 108,

Structural Basis for Cytokinin Recognition by Arabidopsis Thaliana Histidine Kinase 4 - M Hothorn, T Dabi& J Chory (2011) In Nature Chemical Biology, Vol. 7, 766-768

Structural Basis of Steroid Hormone Perception by the Receptor Kinase Bri1 - M Hothorn, Y Belkhadir, M Dreux, T Dabi, JP Noel, IA Wilson& J Chory (2011) In Nature, Vol. 474, 467-U490

Suppressor of Mek Null (Smek)/Protein Phosphatase 4 Catalytic Subunit (Pp4c) Is a Key Regulator of Hepatic Gluconeogenesis - YS Yoon, MW Lee, D Ryu, JH Kim, H Ma, WY Seo, YN Kim, SS Kim, CH Lee, T Hunter, CS Choi, MR Montminy& SH Koo (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 17704-17709

Sustained Use of Cpap Slows Deterioration of Cognition, Sleep, and Mood in Patients with Alzheimer's Disease and Obstructive Sleep Apnea: A Preliminary Study - JR Cooke, L Ayalon, BW Palmer, JS Loredo, J Corey-Bloom, L Natarajan, LQ Liu& S Ancoli-Israel (2009) In Journal of Clinical Sleep Medicine, Vol. 5, 305-309

Synergism of Red and Blue Light in the Control of Arabidopsis Gene Expression and Development - R Sellaro, U Hoecker, M Yanovsky, J Chory& JJ Casal (2009) In Current Biology, Vol. 19, 1216-1220

Targeted Disruption of the Creb Coactivator Crtc2 Increases Insulin Sensitivity - YG Wang, H Inoue, K Ravnskjaer, K Viste, N Miller, Y Liu, S Hedrick, L Vera& M Montminy (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 3087-3092

Taxing Executive Processes Does Not Necessarily Increase Impulsive Decision Making - AM Franco-Watkins, TC Rickard& H Pashler (2010) In Experimental Psychology, Vol. 57, 193-201

Temporal Orchestration of Circadian Autophagy Rhythm by C/Ebp Beta - D Ma, S Panda& JDD Lin (2011) In Embo Journal, Vol. 30, 4642-4651

Thalamic Burst Firing Propensity: A Comparison of the Dorsal Lateral Geniculate and Pulvinar Nuclei in the Tree Shrew - HY Wei, M Bonjean, HM Petry, TJ Sejnowski& ME Bickford (2011) In Journal of Neuroscience, Vol. 31, 17287-17299

The Arabidopsis Translocator Protein (Attspo) Is Regulated at Multiple Levels in Response to Salt Stress and Perturbations in Tetrapyrrole Metabolism - E Balsemao-Pires, Y Jaillais, B Olson, LR Andrade, JG Umen, J Chory& G Sachetto-Martins (2011) In Bmc Plant Biology, Vol. 11,

The Association between P3 Amplitude at Age 11 and Criminal Offending at Age 23 - Y Gao, A Raine, PH Venables& SA Mednick (2013) In Journal of Clinical Child and Adolescent Psychology, Vol. 42, 120-130

The Association of Race/Ethnicity with Objectively Measured Sleep Characteristics in Older Men - YS Song, S Ancoli-Israel, CE Lewis, S Redline, SL Harrison& KL Stone (2011) In Behavioral Sleep Medicine, Vol. 10, 54-69

The Bci6-Smrt/Ncor Cistrome Represses Inflammation to Attenuate Atherosclerosis - GD Barish, RT Yu, MS Karunasiri, D Becerra, J Kim, TW Tseng, LJ Tai, M LeBlanc, C Diehl, L Cerchietti, YI Miller, JL Witztum, AM Melnick, AL Dent, RK Tangirala& RM Evans (2012) In Cell Metabolism, Vol. 15, 554-562

The Consensus Sleep Diary: Standardizing Prospective Sleep Self-Monitoring - CE Carney, DJ Buysse, S Ancoli-Israel, JD Edinger, AD Krystal, KL Lichstein& CM Morin (2012) In Sleep, Vol. 35, 287-302

The Creb Coactivator Crtc2 Links Hepatic Er Stress and Fasting Gluconeogenesis - YG Wang, L Vera, WH Fischer& M Montminy (2009) In Nature, Vol. 460, 534-U116

The Critical Role of Sleep Spindles in Hippocampal-Dependent Memory: A Pharmacology Study - SC Mednick, EA McDevitt, JK Walsh, E Wamsley, M Paulus, JC Kanady& SPA Drummond (2013) In Journal of Neuroscience, Vol. 33, 4494-4504

The Deubiquitinating Enzyme Amsh3 Is Required for Intracellular Trafficking and Vacuole Biogenesis in Arabidopsis Thaliana - E Isono, A Katsiarimpa, IK Muller, F Anzenberger, YD Stierhof, N Geldner, J Chory& C Schwechheimer (2010) In Plant Cell, Vol. 22, 1826-1837

The Down Syndrome Critical Region Regulates Retinogeniculate Refinement - M Blank, PG Fuerst, B Stevens, N Nouri, L Kirkby, D Warrier, BA Barres, MB Feller, AD Huberman, RW Burgess& CC Garner (2011) In Journal of Neuroscience, Vol. 31, 5764-5776

The Downs and Ups of Mechanistic Research: Circadian Rhythm Research as an Exemplar - W Bechtel (2010) In Erkenntnis, Vol. 73, 313-328

The Drosophila Foraging Gene Mediates Adult Plasticity and Gene-Environment Interactions in Behaviour, Metabolites, and Gene Expression in Response to Food Deprivation - CF Kent, T Daskalchuk, L Cook, MB Sokolowski& RJ Greenspan (2009) In Plos Genetics, Vol. 5,

The Effect of Nap Frequency on Daytime Sleep Architecture - EA McDevitt, WA Alaynick& SC Mednick (2012) In Physiology & Behavior, Vol. 107, 40-44

The Effect of Narrowband 500 Nm Light on Daytime Sleep in Humans - EM Harrison, MR Gorman& SC Mednick (2011) In Physiology & Behavior, Vol. 103, 197-202

The Effect of Neural Adaptation on Population Coding Accuracy - JM Cortes, D Marinazzo, P Series, MW Oram, TJ Sejnowski& MCW van Rossum (2012) In Journal of Computational Neuroscience, Vol. 32, 387-402

The Effects of Two Types of Sleep Deprivation on Visual Working Memory Capacity and Filtering Efficiency - SPA Drummond, DE Anderson, LD Straus, EK Vogel& VB Perez (2012) In Plos One, Vol. 7,

The Functions of Grainy Head-Like Proteins in Animals and Fungi and the Evolution of Apical Extracellular Barriers - A Pare, M Kim, MT Juarez, S Brody& W McGinnis (2012) In Plos One, Vol. 7,

The Hodgkin-Huxley Heritage: From Channels to Circuits - WA Catterall, IM Raman, HPC Robinson, TJ Sejnowski& O Paulsen (2012) In Journal of Neuroscience, Vol. 32, 14064-14073

The Kaia Protein of the Cyanobacterial Circadian Oscillator Is Modulated by a Redox-Active Cofactor - TL Wood, J Bridwell-Rabb, YI Kim, TY Gao, YG Chang, A LiWang, DP Barondeau& SS Golden (2010) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 107, 5804-5809

The Language of the Brain - T SejnowskiT Delbruck (2012) In Scientific American, Vol. 307, 54-59

The Longitudinal Relationship between Fatigue and Sleep in Breast Cancer Patients Undergoing Chemotherapy - LQ Liu, M Rissling, L Natarajan, L Fiorentino, PJ Mills, JE Dimsdale, GR Sadler, BA Parker& S Ancoli-Israel (2012) In Sleep, Vol. 35, 237-245

The Metabolome of Induced Pluripotent Stem Cells Reveals Metabolic Changes Occurring in Somatic Cell Reprogramming - AD Panopoulos, O Yanes, S Ruiz, YS Kida, D Diep, R Tautenhahn, A Herrerias, EM Batchelder, N Plongthongkum, M Lutz, WT Berggren, K Zhang, RM Evans, G Siuzdak& JCI Belmonte (2012) In Cell Research, Vol. 22, 168-177

The Moderating Role of Personal Mastery on the Relationship between Caregiving Status and Multiple Dimensions of Fatigue - SK Roepke, BT Mausbach, R von Kanel, S Ancoli-Israel, AL Harmell, JE Dimsdale, K Aschbacher, PJ Mills, TL Patterson& I Grant (2009) In International Journal of Geriatric Psychiatry, Vol. 24, 1453-1462

The Pedestrian Watchmaker: Genetic Clocks from Engineered Oscillators - NA Cookson, LS Tsimring& J Hasty (2009) In Febs Letters, Vol. 583, 3931-3937

The Plastid-Localized Pfkb-Type Carbohydrate Kinases Fructokinase-Like 1 and 2 Are Essential for Growth and Development of Arabidopsis Thaliana - J Gilkerson, JM Perez-Ruiz, J Chory& J Callis (2012) In Bmc Plant Biology, Vol. 12,

The Relationship between Psychomotor Vigilance Performance and Quality of Life in Obstructive Sleep Apnea - IS Lee, W Bardwell, S Ancoli-Israel, L Natarajan, JS Loredo& JE Dimsdale (2011) In Journal of Clinical Sleep Medicine, Vol. 7, 251-257

The Relationship between Self-Efficacy and Resting Blood Pressure in Spousal Alzheimer's Caregivers - AL Harmell, BT Mausbach, SK Roepke, RC Moore, R von Kanel, TL Patterson, JE Dimsdale, PJ Mills, MG Ziegler, MA Allison, S Ancoli-Israel& I Grant (2011) In British Journal of Health Psychology, Vol. 16, 317-328

The Road Not Taken: Creative Solutions Require Avoidance of High-Frequency Responses - N Gupta, Y Jang, SC Mednick& DE Huber (2012) In Psychological Science, Vol. 23, 288-294

The Role of Sleep and Practice in Implicit and Explicit Motor Learning - CA Rieth, DJ Cai, EA McDevitt& SC Mednick (2010) In Behavioural Brain Research, Vol. 214, 470-474

The Roles of Atf3, an Adaptive-Response Gene, in High-Fat-Diet-Induced Diabetes and Pancreatic Beta-Cell Dysfunction - EJ Zmuda, L Qi, MX Zhu, RG Mirmira, MR Montminy& T Hai (2010) In Molecular Endocrinology, Vol. 24, 1423-1433

The Roles of Tnf-Alpha and the Soluble Tnf Receptor I on Sleep Architecture in Osa - HJ Yue, PJ Mills, S Ancoli-Israel, JS Loredo, MG Ziegler& JE Dimsdale (2009) In Sleep and Breathing, Vol. 13, 263-269

The Rumelhart Prize at 10 - W Bechtel, M Behrmann, N Chater, RJ Glushko, RL Goldstone& P Smolensky (2010) In Cognitive Science, Vol. 34, 713-715

The Spread of Sleep Loss Influences Drug Use in Adolescent Social Networks - SC Mednick, NA Christakis& JH Fowler (2010) In Plos One, Vol. 5,

Thyroid Hormone Receptor Repression Is Linked to Type I Pneumocyte-Associated Respiratory Distress Syndrome - LM Pei, M Leblanc, G Barish, A Atkins, R Nofsinger, J Whyte, D Gold, MX He, K Kawamura, HR Li, M Downes, RT Yu, HC Powell, JB Lingrel& RM Evans (2011) In Nature Medicine, Vol. 17, 1466-U1172

Time of Feeding and the Intrinsic Circadian Clock Drive Rhythms in Hepatic Gene Expression - C Vollmers, S Gill, L DiTacchio, SR Pulivarthy, HD Le& S Panda (2009) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 106, 21453-21458

Time-Dependent Effects of Dim Light at Night on Re-Entrainment and Masking of Hamster Activity Rhythms - DW Frank, JA Evans& MR Gorman (2010) In Journal of Biological Rhythms, Vol. 25, 103-112

Time-Restricted Feeding without Reducing Caloric Intake Prevents Metabolic Diseases in Mice Fed a High-Fat Diet - M Hatori, C Vollmers, A Zarrinpar, L DiTacchio, EA Bushong, S Gill, M Leblanc, A Chaix, M Joens, JAJ Fitzpatrick, MH Ellisman& S Panda (2012) In Cell Metabolism, Vol. 15, 848-860

Timing and Magnitude of C Partitioning through a Young Loblolly Pine (Pinus Taeda L.) Stand Using C-13 Labeling and Shade Treatments - JM Warren, CM Iversen, CT Garten, RJ Norby, J Childs, D Brice, RM Evans, L Gu, P Thornton& DJ Weston (2012) In Tree Physiology, Vol. 32, 799-813

To Treat or Not to Treat Perinatal Depression with Antidepressant Medication: Effects on Infant Growth - BL Parry (2013) In American Journal of Psychiatry, Vol. 170, 453-454

Tolerance of Chronic 90-Minute Time-in-Bed Restriction in Older Long Sleepers - SD Youngstedt, CE Kline, MR Zielinski, DF Kripke, TM Devlin, RK Bogan, S Wilcox& JW Hardin (2009) In Sleep, Vol. 32, 1467-1479

Topological Basis of Epileptogenesis in a Model of Severe Cortical Trauma - V Volman, TJ Sejnowski& M Bazhenov (2011) In Journal of Neurophysiology, Vol. 106, 1933-1942

Toward a Generalized Theory of the Shift to Retrieval in Cognitive Skill Learning - D BajicTC Rickard (2011) In Memory & Cognition, Vol. 39, 1147-1161

Trans-Resveratrol Inhibits Phosphorylation of Smad2/3 and Represses Fsh Beta Gene Expression by a Sirt1-Independent Pathway in L Beta T2 Gonadotrope Cells - DB Lan, M Lu, S Sharma, PL Mellon, JM Olefsky& NJG Webster (2011) In Reproductive Toxicology, Vol. 32, 85-92

Transcriptional Code and Disease Map for Adult Retinal Cell Types - S Siegert, E Cabuy, BG Scherf, H Kohler, S Panda, YZ Le, HJ Fehling, D Gaidatzis, MB Stadler& B Roska (2012) In Nature Neuroscience, Vol. 15, 487-U191

Transgenic Mice Reveal Unexpected Diversity of on-Off Direction-Selective Retinal Ganglion Cell Subtypes and Brain Structures Involved in Motion Processing - M Rivlin-Etzion, KL Zhou, W Wei, J Elstrott, PL Nguyen, BA Barres, AD Huberman& MB Feller (2011) In Journal of Neuroscience, Vol. 31, 8760-8769

Transsynaptic Tracing with Vesicular Stomatitis Virus Reveals Novel Retinal Circuitry - KT Beier, BG Borghuis, RN El-Danaf, AD Huberman, JB Demb& CL Cepko (2013) In Journal of Neuroscience, Vol. 33, 35-51

Triclocarban Mediates Induction of Xenobiotic Metabolism through Activation of the Constitutive Androstane Receptor and the Estrogen Receptor Alpha - MF Yueh, T Li, RM Evans, B Hammock& RH Tukey (2012) In Plos One, Vol. 7,

Tumor Suppressor Protein (P)53, Is a Regulator of Nf-Kappa B Repression by the Glucocorticoid Receptor - SH Murphy, K Suzuki, M Downes, GL Welch, P De Jesus, LJ Miraglia, AP Orth, SK Chanda, RM Evans& IM Verma (2011) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 108, 17117-17122

Twice Daily Melatonin Peaks in Siberian but Not Syrian Hamsters under 24 H Light:Dark:Light:Dark Cycles - EE Raiewski, JA Elliott, JA Evans, GL Glickman& MR Gorman (2012) In Chronobiology International, Vol. 29, 1206-1215

Tyrosine Phosphorylation Controls Brassinosteroid Receptor Activation by Triggering Membrane Release of Its Kinase Inhibitor - Y Jaillais, M Hothorn, Y Belkhadir, T Dabi, ZL Nimchuk, EM Meyerowitz& J Chory (2011) In Genes & Development, Vol. 25, 232-237

Tyrosine Phosphorylation Regulates the Activity of Phytochrome Photoreceptors - K Nito, CCL Wong, JR Yates& J Chory (2013) In Cell Reports, Vol. 3, 1970-1979

Unraveling the Paradoxes of Plant Hormone Signaling Integration - Y JaillaisJ Chory (2010) In Nature Structural & Molecular Biology, Vol. 17, 642-645

Uplifts and Sleep - L Tomfohr, S Ancoli-Israel, MA Pung, L Natarajan& JE Dimsdale (2010) In Behavioral Sleep Medicine, Vol. 9, 31-37

Vacuum-Assisted Cell Loading Enables Shear-Free Mammalian Microfluidic Culture - M Kolnik, LS Tsimring& J Hasty (2012) In Lab on a Chip, Vol. 12, 4732-4737

Validation of Independent Component Analysis for Rapid Spike Sorting of Optical Recording Data - ES Hill, C Moore-Kochlacs, SK Vasireddi, TJ Sejnowski& WN Frost (2010) In Journal of Neurophysiology, Vol. 104, 3721-3731

Validation of the Pittsburgh Sleep Quality Index and the Epworth Sleepiness Scale in Older Black and White Women - SA Beaudreau, AP Spira, A Stewart, EJ Kezirian, LY Lui, K Ensrud, S Redline, S Ancoli-Israel, KL Stone& F Study Osteoporotic (2012) In Sleep Medicine, Vol. 13, 36-42

Vps34 Deficiency Reveals the Importance of Endocytosis for Podocyte Homeostasis - W Bechtel, M Helmstadter, J Balica, B Hartleben, B Kiefer, F Hrnjic, C Schell, O Kretz, SY Liu, F Geist, D Kerjaschki, G Walz& TB Huber (2013) In Journal of the American Society of Nephrology, Vol. 24, 727-743

Warm Temperatures Induce Transgenerational Epigenetic Release of Rna Silencing by Inhibiting Sirna Biogenesis in Arabidopsis - SH Zhong, JZ Liu, H Jin, L Lin, Q Li, Y Chen, YX Yuan, ZY Wang, H Huang, YJ Qi, XY Chen, H Vaucheret, J Chory, JM Li& ZH He (2013) In Proceedings of the National Academy of Sciences of the United States of America, Vol. 110, 9171-9176

Wavelet Measurement Suggests Cause of Period Instability in Mammalian Circadian Neurons - K Meeker, R Harang, AB Webb, DK Welsh, FJ Doyle, G Bonnet, ED Herzog& LR Petzold (2011) In Journal of Biological Rhythms, Vol. 26, 353-362

Wrist Actigraphic Scoring for Sleep Laboratory Patients: Algorithm Development - DF Kripke, EK Hahn, AP Grizas, KH Wadiak, RT Loving, JS Poceta, FF Shadan, JW Cronin& LE Kline (2010) In Journal of Sleep Research, Vol. 19, 612-619

Yeast Dynamically Modify Their Environment to Achieve Better Mating Efficiency - M Jin, B Errede, M Behar, W Mather, S Nayak, J Hasty, HG Dohlman& TC Elston (2011) In Science Signaling, Vol. 4,

CONFERENCE PAPERS (106)

5 Year Review ? Conference Papers (2009-2013)

A Drosophila Model of Williams Syndrome - RJ GreenspanJ Wagner (2011) In Annals of Neurology, Vol. 70, S45-S45

A Randomized Placebo-Controlled Trial of Continuous Positive Airway Pressure for Fatigue in Patients with Obstructive Sleep Apnea - LM Tomfohr, S Ancoli-Israel, JS Loredo& JE Dimsdale (2010) In Sleep, Vol. 33, A170-A170

A Responder Analysis Using the Insomnia Severity Index in Older Adults Treated for 12 Weeks with Eszopiclone 2 Mg or Placebo - C Morin, A Krystal, V McCall, K Schaefer, R Claus, A Wilson, M Friedman, T Roth& S Ancoli-Israel (2009) In Sleep, Vol. 32, A266-A267

Actigraphic Characteristics of Sleep, Reaction Time, and Risk of Falls in Older Women - KL Stone, T Blackwell, AP Spira, K Ensrud, JA Cauley, S Ancoli-Israel& K Yaffe (2010) In Gerontologist, Vol. 50, 37-38

Actigraphic Comparison of Sleep in Comorbid Posttraumatic Stress Disorder and Depression Versus Depression Alone - MR Kelly, RR Bootzin, S Ancoli-Israel& PL Haynes (2009) In Sleep, Vol. 32, A346-A346

Actigraphic Measures of Sleep Duration and Risk of Mortality in Older Men and Women - KL Stone, T Blackwell, S Ancoli-Israel, JA Cauley, KE Ensrud, DC Bauer, E Barrett-Connor, S Patel, TA Hillier& S Redline (2009) In Sleep, Vol. 32, A114-A114

Actigraphic Sleep Patterns and Obesity in Older Men and Women - AL Hayes, SR Patel, T Blackwell, DS Evans, S Ancoli-Israel, YK Wing& KL Stone (2012) In Sleep, Vol. 35, A402-A402

Actigraphy for Assessment of Rem Sleep Behavior Disorder in Parkinson's Disease - JE Maglione, AB Neikrug, L Natarajan, L Liu, JA Avanzino, J Calderon, SE Lawton, J Corey-Bloom, JS Loredo& S Ancoli-Israel (2011) In Sleep, Vol. 34, A197-A197

Actigraphy for the Assessment of Sleep and Wake in Parkinson's Disease - JE Maglione, L Liu, J Calderon, A Neikrug, L Natarajan, JR Cooke, P Corey-Bloom, JS Loredo, D Jones& S Ancoli-Israel (2009) In Sleep, Vol. 32, A372-A372

Actigraphy-Based Pre-Treatment Nap Time Predicts Quality of Life During Chemotherapy in Breast Cancer Patients - L Liu, L Natarajan, F He, S Johnson, BA Parker, GR Sadler, PJ Mills, JE Dimsdale& S Ancoli-Israel (2009) In Sleep, Vol. 32, A323-A323

Age-Related Impairments of Memory and Fast Sleep Spindles Are Mediated by Deterioration of Cortico-Thalamic White Matter Pathways - BA Mander, A Zhu, BS Lu, JM Saletin, S Ancoli-Israel, WJ Jagust& M Walker (2012) In Sleep, Vol. 35, A23-A23

Aging Impairments in Nrem Slow Wave Activity and Memory Consolidation Are Mediated by Prefrontal Brain Atrophy - BA Mander, V Rao, BS Lu, JM Saletin, S Ancoli-Israel, WJ Jagust& M Walker (2012) In Sleep, Vol. 35, A18-A19

Algunas Propiedades Funcionales Del Receptor Gustativo - H Arechiga, C Lehne, F Pruneda& C Alcocer (1965) In Acta Physiologica Latinoamericana, Vol. 15, 105-&

Arousal Frequency Is Associated with Increased Fatigue in Obstructive Sleep Apnea - HJ Yue, W Bardwell, S Ancoli-Israel, JS Loredo& JE Dimsdale (2009) In American Journal of Respiratory and Critical Care Medicine, Vol. 179,

Association of Incident Cardiovascular Disease with Periodic Limb Movements During Sleep in Elderly Men: Outcomes of Sleep Disorders in Older Men (MROS) Study - BB Koo, T Blackwell, S Ancoli-Israel, KL Stone, ML Stefanick& S Redline (2011) In Sleep, Vol. 34, A200-A201

Association of Self-Reported Sleep Medication Use to Sleep, Depression, Fatigue and Menopausal Symptoms in Women Undergoing Chemotherapy for Breast Cancer - M Rissling, L Natarajan, BA Parker, L Liu, F He& S Ancoli-Israel (2009) In Sleep, Vol. 32, A323-A323

Autonomic and Hemodynamic Origins of Prehypertension: Central Role of Heredity - JT Davis, FW Rao, D Naqshbandi, MM Fung, KX Zhang, AJ Schork, CM Nievergelt, MG Ziegler& DT O'Connor (2012) In American Journal of Kidney Diseases, Vol. 59, A30-A30

Bioluminescence Imaging of Circadian Clock Gene Expression in Single Cells - DK WelshSA Kay (2009) In Journal of Physiological Sciences, Vol. 59, 114-114

Bright Light Therapy as Part of a Multicomponent Management Improves Sleep, Cognitive and Functional Outcomes in Delirious Older Hospitalized Adults - MS Chong, K Tan, L Tay, M Chan, T Tan, Y Ding& S Ancoli-Israel (2012) In Sleep, Vol. 35, A407-A408

Changes in Cognition Are Associated with Changes in Sleep and Circadian Activity Rhythms in Women with Breast Cancer Undergoing Chemotherapy - S Ancoli-Israel, M Rissling, M Faierman, L Liu, L Natarajan, AB Neikrug& B Palmer (2012) In Sleep, Vol. 35, A299-A299

Changes in Daytime Sleepiness Levels for Caregivers During CPAP Treatment for Patients with Parkinson's and Sleep Apnea - A Carbungco, L Bradley, JA Avanzino, L Lichter, AB Neikrug, JE Maglione, JS Loredo& S Ancoli-Israel (2012) In Sleep, Vol. 35, A168-A168

Characteristics and Correlates of Variability in Sleep Latency, Efficiency, and Duration in Older Men - ML Paudel, BC Taylor, S Ancoli-Israel, KL Stone, S Redline, E Barrett-Connor& KE Ensrud (2012) In Sleep, Vol. 35, A18-A18

Childhood Behavior Problems as Predictors of Alcohol Involvement in Men and Women by Mid-Adulthood - MN Sargeant, LM Yarnell, CA Prescott, A Raine, PH Venables, SA Mednick& SE Luczak (2013) In Alcoholism-Clinical and Experimental Research, Vol. 37, 75A-75A

Childhood Precursors of Subtypes of Alcohol Problems: A Latent Class Analysis in a Non-Western Society - SE Luczak, LM Yarnell, CA Prescott, MN Sargeant, A Raine, PH Venables& SA Mednick (2013) In Alcoholism-Clinical and Experimental Research, Vol. 37, 196A-196A

Cholinergic Enhancement of Single Session Perceptual Learning Is Location Specific - M Peters, E McDevitt, S Sheremata, S Mednick& M Silver (2013) In Journal of Cognitive Neuroscience, Vol., 232-233

Circadian Activity Patterns in Older Adults with Knee Osteoarthritis and/or Insomnia - VT Coryell, AP Spira, CN Kaufmann, SC Bounds, L Liu, LF Buenaver, L McCauley, PH Finan, S Ancoli-Israel& MT Smith (2012) In Sleep, Vol. 35, A303-A304

Cognitive Deficits: Relationship to Sleep and Fatigue in Breast Cancer Patients - S Ancoli-Israel, L Natarajan, B Palmer, M Rissling, BA Parker& L Liu (2011) In Sleep, Vol. 34, A316-A316

Cognitive Impairment Predicts Wake after Sleep Onset in Parkinson's Patients - JA Avanzino, AB Neikrug, JE Maglione, B Palmer, L Liu, A Carbungco, L Bradley, M Faierman, J Corey-Bloom& S Ancoli-Israel (2012) In Sleep, Vol. 35, A283-A283

Contribution of Fatigue to Chemobrain in Women Undergoing Chemotherapy for Breast Cancer - S Ancoli-Israel, L Nataraian, BW Palmer, BA Parker, PJ Mills, GR Sadler& JE Dimsdale (2009) In Sleep, Vol. 32, A319-A320

Conversion of Bone Marrow Plasmacytoid into Myeloid Dendritic Cells During Virus Infection - EI Zuniga, D McGavern, J Pruneda-Paz, T Chao& M Oldstone (2005) In Faseb Journal, Vol. 19, A371-A371

Correlation between Fatigue and Psychological Distress in Women with Breast Cancer Undergoing Chemotherapy - F Dandekar, M Rissling, M Faierman, L Liu, L Natarajan, B Palmer, BA Parker& S Ancoli-Israel (2012) In Sleep, Vol. 35, A319-A319

CPAP Improves Executive Function in Alzheimer's Patients with OSA - C Olson, BW Palmer, L Natarajan, J Corey-Bloom, F He, JS Loredo& S Ancoli-Israel (2009) In Sleep, Vol. 32, A230-A230

CPAP Treatment of OSA Improves Daytime Sleepiness on MSLT in Parkinson's Disease - S Ancoli-Israel, AB Neikrug, JA Avanzino, L Liu, M Faierman, A Carbungco, L Natarajan, JS Loredo, JE Maglione& J Corey-Bloom (2012) In Sleep, Vol. 35, A139-A139

CREB and the CRTC Co-Activators: Sensors for Hormonal and Metabolic Signals - JY AltarejosM Montminy (2011) In Nature Reviews Molecular Cell Biology, Vol. 12, 141-151

Depressive Symptoms and Desynchronization of Circadian Activity Rhythms in Community-Dwelling Older Women - JE Maglione, S Ancoli-Israel, K Wilt, ML Paudel, K Yaffe, KE Ensrud, G Tranah& KL Stone (2011) In Sleep, Vol. 34, A166-A167

Depressive Symptoms and Subjective and Objective Disturbances in Sleep in Community-Dwelling Older Women - JE Maglione, S Ancoli-Israel, K Wilt, ML Paudel, K Yaffe, KE Ensrud& KL Stone (2010) In Sleep, Vol. 33, A346-A346

Desmopreessin Orally Disintegrating Tablet Effectively Reduces Symptoms of Nocturia and Prolongs Undisturbed Sleep in Patients with Nocturia: Results of a Randomized Placebo-Controlled Study - J Weiss, N Zinner, F Daneshgari, B Klein, JP Norgaard& S Ancoli-Israel (2010) In International Urogynecology Journal, Vol. 21, S285-S287

Desmopressin Orally Disintegrating Tablet Effectively Reduces Symptoms of Nocturia and Prolongs Undisturbed Sleep in Patients with Nocturia: Results of a Randomized Placebo-Controlled Study - J Weiss, N Zinner, F Daneshgari, B Klein, JP Norgaard& S Ancoli-Israel (2010) In Neurourology and Urodynamics, Vol. 29, 1089-1091

Developing a New Behavioral Treatment for Insomnia: Accepting Behavioral Changes to Treat Insomnia (Abc-I) - L Fiorentino, JL Martin, S Ancoli-Israel, D Posner, S McCurry, MR Irwin& CA Alessi (2011) In Sleep, Vol. 34, A173-A173

Diurnal Variability of C-Reactive Protein (CRP) in Obstructive Sleep Apnea (OSA) - P Mills, L Natarajan, R von Kanel, S Ancoli-Israel& JE Dimsdale (2009) In Sleep, Vol. 32, A44-A44

Do Sleep-Wake Cycles Get Impaired During Chemotherapy for Breast Cancer? - J Savard, L Liu, L Natarajan, AB Neikrug, F He, JE Dimsdale, PJ Mills, BA Parker, G Sadler& S Ancoli-Israel (2009) In Sleep, Vol. 32, A324-A324

Does Sleep Prevent Interference and Enhance Visual Statistical Learning? - EA McDevitt, KJ MacKenzie, J Fiser& SC Mednick (2012) In Sleep, Vol. 35, A91-A91

Does the Use of Sleep Questionnaires Add to Our Knowledge About the Impact of Nocturia? - S Ancoli-Israel, BM Klein& T Holm-Larsen (2009) In Neurourology and Urodynamics, Vol. 28, 635-636

Does Tumour Tattooing in Colorectal Surgery Affect Lymph Node Yield? - RM Evans, P Mummugati, M Davies, MD Evans, TV Chandrasekaran, U Khot, J Beynon& DA Harris (2013) In British Journal of Surgery, Vol. 100, 19-19

Drug Altered Sleep Enhances Memory - SC Mednick, EA McDevitt, SP Drummond& JK Walsh (2012) In Sleep, Vol. 35, A88-A88

Effect of Ethnicity and Acculturation on Obstructive Sleep Apnea Prevalence and Severity in Non-Hispanic Whites and Hispanics of Mexican Descent in San Diego County: Preliminary Findings - R Bercovitch, L Palinkas, S Ancoli-Israel, JE Dimsdale& JS Loredo (2011) In Sleep, Vol. 34, A124-A124

Effects of Exercise on Sleep in Women Undergoing Chemotherapy for the Treatment of Breast Cancer - SE Lawton, S Hong, L Natarajan, F He, S Johnson, L Liu& S Ancoli-Israel (2010) In Sleep, Vol. 33, A303-A304

Effects of Hallucinations on Daytime Sleepiness and Sleep Disturbances in Parkinson's Disease - L Bradley, AB Neikrug, JA Avanzino, A Carbungco, L Lichter, JE Maglione, L Liu, L Natarajan& S Ancoli-Israel (2012) In Sleep, Vol. 35, A282-A282

Effects of Having a Television in the Bedroom on Subjective Sleep Quality and Quantity: A Population Based Study - JS Loredo, S Ancoli-Israel& JE Dimsdale (2011) In Sleep, Vol. 34, A261-A261

Estimation of Residue-Residue Coevolution Using Direct Coupling Analysis Identifies Many Native Contacts across a Large Number of Domain Families - F Morcos, A Pagnini, B Lunt, A Bertolino, D Marks, C Sander, R Zecchina, JN Onuchic, T Hwa& M Weigt (2012) In Biophysical Journal, Vol. 102, 250A-250A

Ethnic Differences in Predictors of Daytime Sleepiness - RE Sell, W Bardwell, L Palinkas, S Ancoli-Israel, J Dimsdale& JS Loredo (2009) In American Journal of Respiratory and Critical Care Medicine, Vol. 179,

Ethnic Differences in Sleep Quality, Depression and Anxiety - X Soler, WA Bardwell, S Ancoli-Israel, LA Palinkas& JS Loredo (2009) In American Journal of Respiratory and Critical Care Medicine, Vol. 179,

Ethnic Differences in Sleep-Health Knowledge - RE Sell, W Bardwell, L Palinkas, S Ancoli-Israel, J Dimsdale& JS Loredo (2009) In Sleep, Vol. 32, A392-A392

Ethnic Differences in the Prevalence and Predictors of Restless Leg Syndrome between Non-Hispanic Writes and Hispanics of Mexican Descent - K Sawanyawisuth, WA Bardwell, LA Palinkas, S Ancoli-Israel, JE Dimsdale& JS Loredo (2009) In Sleep, Vol. 32, A299-A299

Facilitating Healthy Aging through Optimal Management of Three Common Medical Problems - S Ancoli-Israel, JW Daly, J Rosen& DD Sewell (2009) In American Journal of Geriatric Psychiatry, Vol. 17, A35-A35

Five Year Change in Actigraphy Defined Sleep in a Cohort of Older Women - AM Laffan, S Ancoli-Israel, KE Ensrud& KL Stone (2010) In Sleep, Vol. 33, A348-A348

Frequency and Characteristics of Advanced and Delayed Rest/Activity Rhythms in Older Men - ML Paudel, BC Taylor, S Ancoli-Israel, G Tranah, KL Stone, S Redline& KE Ensrud (2010) In Sleep, Vol. 33, A72-A72

Genes Involved in Sex Pheromone Discrimination and Their Context-Dependent Effect - B Houot, RJ Greenspan& JF Ferveur (2010) In Journal of Neurogenetics, Vol. 24, 20-20

Genetic Risk for Posttraumatic Stress in the Marine Resiliency Study (MRS): Interrogation of the Entire Genome - CM Nievergelt, VB Risbrough, NJ Schork, DT O'Connor& DG Baker (2013) In Biological Psychiatry, Vol. 73, 66S-66S

Gonadal Hormone-Independent Regulation of Hypothalamic Kiss1/Nkb Neurons in Prepubertal Mice - AS Kauffman, VM Navarro, J Kim, DK Clifton& RA Steiner (2010) In Endocrine Journal, Vol. 57, S517-S517

Health Anxiety and Cognitive Processes as Risks for Insomnia in Women with and without Breast Cancer - M Rissling, L Natarajan, M Cornejo& S Ancoli-Israel (2012) In Sleep, Vol. 35, A241-A241

Heart Rate Variability During Sleep in Parkinson's Disease - N Covassin, AB Neikrug, L Liu, JE Maglione, J Corey-Bloom, JS Loredo& S Ancoli-Israel (2012) In Sleep, Vol. 35, A281-A281

How Do Three Proteins Generate Circadian Rhythms? The Detailed Timing Mechanism of the Cyanobacterial Circadian Oscillator - R Tseng, JD Kerby, YG Chang& A LiWang (2013) In Biophysical Journal, Vol. 104, 224A-225A

Incident Cardiovascular Disease and Rest/Activity Rhythm Disturbances in Older Men: MROS Sleep - ML Paudel, BC Taylor, S Ancoli-Israel, KL Stone, G Tranah, S Redline, E Barrett-Connor& KE Ensrud (2009) In Sleep, Vol. 32, A46-A47

Journey to the Hypothalamus, Travels of the Gnrh Neuron - PL Mellon, NLG Miller, R Larder, AK Iyer, ML Givens& N Rave-Harel (2009) In Neuropeptides, Vol. 43, 151-152

Metformin-Mediated Bambi Expression in Hepatic Stellate Cells Induces Pro-Survival Wnt/Beta-Catenin Signalling - N Subramaniam, M Downes, R Rao, C Wilson, RM Evans& C Liddle (2011) In Journal of Gastroenterology and Hepatology, Vol. 26, 8-8

Network Structure and Sensitivity to the Geometry of Stimuli in Epilepsy and Cognition - EL Ohayon, A Lam& TJ Sejnowski (2011) In Annals of Neurology, Vol. 70, S84-S84

Neural Functional Connectivity in Successful Cognitive Aging - AR Kaup, SP Drummond, DV Jeste& LT Eyler (2011) In Biological Psychiatry, Vol. 69, 67S-67S

Neuropeptide Y (NPY): Genetic Variation in the Human Promoter Alters Glucocorticoid Signaling, Yielding Increased NPY Secretion and Stress Responses - KX Zhang, CMM Nievergelt, D Baker& DT O'Connor (2013) In Biological Psychiatry, Vol. 73, 65S-65S

Objective Measures of Daytime Sleepiness in Patients with Parkinson's Disease and Rem Behavior Disorder - AB Neikrug, J Calderon, L Liu, D Jones, JE Maglione, J Corey-Bloom, JS Loredo, JR Cooke, S Lawton& S Ancoli-Israel (2009) In Sleep, Vol. 32, A309-A309

Objective Sleep Prior to Chemotherapy for Breast Cancer Predicts Changes in Inflammation Pre-to-Post-Chemotherapy - L Fiorentino, P Mills, L Natarajan, L Liu, M Rissling, SE Lawton& S Ancoli-Israel (2011) In Sleep, Vol. 34, A315-A315

Objective Total Sleep Duration Pre-Chemotherapy Predicts Depression and Subjective Sleep Quality in Breast Cancer Patients - L Liu, L Natarajan, F He, S Johnson, BA Parker, GR Sadler, P Mills, JE Dimsdale& S Ancoli-Israel (2010) In Sleep, Vol. 33, A303-A303

Periodic Limb Movements During Sleep and Nocturnal Cardiac Arrhythmia: Outcomes of Sleep Disorders in Older Men (Mros) Study - BB Koo, R Mehra, T Blackwell, S Ancoli-Israel, KL Stone& S Redline (2012) In Sleep, Vol. 35, A259-A259

Plasma Melatonin Circadian Rhythms in Menopausal Depressed Vs. Normal Control Women - BL Parry, C Meliska, D Sorenson, A Lopez, F Martinez& H Orff (2011) In Menopause-the Journal of the North American Menopause Society, Vol. 18, 1347-1347

Positive Evidence for a Role of the PML Pathway in Leukemogenesis of Acute Promyelocytic Leukemia - T Sternsdorf, C Ocampo-Bayuga, A Haschke, K Dierk, S Prall, M Horstmann& RM Evans (2010) In Klinische Padiatrie, Vol. 222, 217-217

Pre-Sleep Cognitive Activity, Sleep Effort and Insomnia Symptoms in Breast Cancer Patients before Chemotherapy - M Rissling, L Natarajan, M Cornejo, SE Lawton& S Ancoli-Israel (2010) In Sleep, Vol. 33, A205-A205

Prion Protein Is a Key Regulator of T Cell Activation, Differentiation, and Survival - W Hu, S Nessler, B Hemmer, T Eagar, L Kane, R Leliveld, A Muller-Schiffmann, A Gocke, A Lovett-Racke, LH Ben, R Hussain, A Breil, J Elliott, P Carson, P Cravens, M Singh, B Petsch, L Stitz, M Racke, C Korth& O Stuve (2009) In Neurology, Vol. 72, A280-A281

Rem Behavior Disorder Is Associated with Increase of Other Non-Motor Symptoms in Parkinson's Disease - AB Neikrug, JE Maglione, L Natarajan, L Liu, JA Avanzino, A Carbungco, L

Bradley, J Corey-Bloom, JS Loredo& S Ancoli-Israel (2012) In Sleep, Vol. 35, A250-A250

Restless Leg Syndrome and Objective and Subjective Sleep Characteristics among the Oldest Old - S Diem, S Litwack-Harrison, S Ancoli-Israel, KL Stone, S Redline& KE Ensrud (2011) In Sleep, Vol. 34, A304-A304

Rhythmic Ring-Ring Stacking Drives the Circadian Oscillator Clockwise - A Liwang, YG Chang& RD Tseng (2013) In Integrative and Comparative Biology, Vol. 53, E129-E129

Sensing Array of Radically Coupled Genetic Biopixels - J Hasty (2012) In Faseb Journal, Vol. 26,

Sex and Kisses: Development and Functions of Sex Differences in Kiss1 Neurons - AS Kauffman (2010) In Biology of Reproduction, Vol., 62-62

Sleep and Drowsy Driving in a Sample of High School Students - Z Liu, T He, S Ancoli-Israel& L Liu (2010) In Sleep, Vol. 33, A315-A316

Sleep Characteristics of Self-Reported Long Sleepers - SR Patel, T Blackwell, S Ancoli-Israel& KL Stone (2010) In Sleep, Vol. 33, A307-A307

Sleep Disordered Breathing, Hypoxia, and Risk of Mild Cognitive Impairment & Dementia in Older Women - K Yaffe, A Laffan, SL Harrison, AP Spira, K Ensrud, S Ancoli-Israel, S Redline& KL Stone (2010) In Gerontologist, Vol. 50, 37-37

Sleep Disturbances and Incident Frailty Status in Older Men - K Ensrud, T Blackwell, S Ancoli-Israel, S Redline, P Cawthon, ML Paudel, T Dam& KL Stone (2011) In Sleep, Vol. 34, A302-A302

Sleep Duration and Disruption: Associations with Cognitive Decline in Older Men - A Laffan, KL Stone, T Blackwell, S Ancoli-Israel, K Ensrud, S Redline, Y Slinin& K Yaffe (2010) In Gerontologist, Vol. 50, 38-38

Sleep Efficiency of Patients with Parkinson's Disease Predicts Their Partners' Daytime Sleepiness - AB Neikrug, L Natarajan, J Calderon, L Liu, JE Maglione, J Corey-Bloom, JS Loredo, SE Lawton& S Ancoli-Israel (2010) In Sleep, Vol. 33, A282-A282

Sleep Parameters and Incident Frailty Status in Older Men - K Ensrud, T Blackwell, S Ancoli-Israel, S Redline, P Cawthon, ML Paudel, TL Dam& KL Stone (2010) In Gerontologist, Vol. 50, 500-500

Sleep Quality and Quantity Predict Brain Activation During Verbal Learning in Older Adults - MB Jonelis, SP Drummond, J Salamat, BS McKenna, S Ancoli-Israel& M Bondi (2009) In Sleep, Vol. 32, A114-A114

Sleep, Fatigue, Depression and Quality of Life in Women with Breast Cancer before and after Chemotherapy: A Controlled Study - L Liu, M Rissling, M Faierman, L Natarajan, B Palmer, BA Parker& S Ancoli-Israel (2012) In Sleep, Vol. 35, A295-A296

Temporally Restricted Feeding Prevents Obesity and Other Metabolic Disorders Associated with High Fat Diet in Mice - A Zarrinpar, C Vollmers& S Panda (2012) In Gastroenterology, Vol. 142, S14-S14

Testosterone Secretion in Prenatal and Postnatal Mice Is Independent of Kisspeptin-Kiss1r Signaling - MC PolingAS Kauffman (2011) In Biology of Reproduction, Vol. 85,

The Effects on Cerebral Glucose Metabolism in Bipolar I Subjects Treated with Lithium Monotherapy - AK Bhattacharjee, M McCarthy, N Salloum, A DeModena, M Buchsbaum& J Kelsoe (2013) In Biological Psychiatry, Vol. 73, 105S-106S

The Growth of Bacterial Colonies - M WarrenT Hwa (2012) In Biophysical Journal, Vol. 102, 152A-152A

The Impact of a National Program on Judicious Use of Antidiabetic Medicines - YQ Zuo, J Elliott, L Lor, M Bartlett, J Dartnell& L Weekes (2012) In Pharmacoepidemiology and Drug Safety, Vol. 21, 164-164

The Impact of Uplifts on Sleep Qualm - LM Tomfohr, S Ancoli-Israel& J Dimsdale (2009) In Sleep, Vol. 32, A411-A411

Transmission of Chagas Disease by Blood Transfusion - Study of Multi-Transfused Hemophilic Patients - J Pruneda, JA Cerisola, Dicorlet.Ca& Pavlovsk.A (1970) In Medicina, Vol. 30, 51-&

Transverse Loop Colostomy Versus Loop Ileostomy: Quality of Life Revisited - RM Evans, TZ Cuming, H Dent, F Anscomb& WV Garrett (2011) In British Journal of Surgery, Vol. 98, 143-143

UPDRS Activities of Daily Living and Rem Behavior Disorder in Patients with Parkinson's Disease - J Calderon, AB Neikrug, L Liu, D Jones, JE Maglione, J Corey-Bloom, JS Loredo, JR Cooke, S Lawton& S Ancoli-Israel (2009) In Sleep, Vol. 32, A292-A292

UPDRS Motor Evaluation and Light Sleep in Parkinson's Disease - J Calderon, AB Neikrug, L Liu, JE Maglione, J Corey-Bloom, JS Loredo, SE Lawton& S Ancoli-Israel (2010) In Sleep, Vol. 33, A278-A278

Using Polysomnography and Clinical History to Diagnose Rem Sleep Behavior Disorder in Parkinson's Disease: A Proposed Classification System - AB Neikrug, L Natarajan, JS Loredo, L Liu, JA Avanzino, JE Maglione, J Calderon, J Corey-Bloom& S Ancoli-Israel (2011) In Sleep, Vol. 34, A195-A195

Vitamin D Upregulates Bambi and Attenuates Pro-Fibrogenic Gene Expression in Rat HSCS - R Rao, S Coulter, C Wilson, RM Evans& C Liddle (2010) In Journal of Gastroenterology and Hepatology, Vol. 25, A9-A9

Wake Therapy Effects on Mood and Sleep in Pregnancy and Postpartum Depression - B Parry, C Meliska, D Sorenson, A Lopez, F Martinez& H Orff (2011) In Journal of Womens Health, Vol. 20, 494-495

Zolpidem Use and Risk of Falls in Older Men - S Diem, SK Ewing, KL Stone, S Ancoli-Israel, S Redline& K Ensrud (2012) In Gerontologist, Vol. 52, 217-217

WEB PUBLICATIONS (0)

BOOKS (9)

5 Year Review ? Books/Chapters (2009-2013)

Computational Modeling of Phosphotransfer Complexes in Two-Component Signaling - A Schug, M Weigt, JA Hoch, JN Onuchic, T Hwa& H Szurmant (2010) In M. I. Simon, B. R. Crane and A. Crane, Methods in Enzymology, Vol 471: Two-Component Signaling Systems, Part C. Vol. 471, 43-58.

Inference of Direct Residue Contacts in Two-Component Signaling - B Lunt, H Szurmant, A Procaccini, JA Hoch, T Hwa& M Weigt (2010) In M. I. Simon, B. R. Crane and A. Crane, Methods in Enzymology, Vol 471: Two-Component Signaling Systems, Part C. Vol. 471, 17-41.

Microfluidics for Synthetic Biology: From Design to Execution - MS Ferry, IA Razinkov& J Hasty (2011) In C. Voigt, Methods in Enzymology, Vol 497: Synthetic Biology, Methods for Part/Device Characterization and Chassis Engineering, Pt A. Vol. 497, 295-372.

Preface Nuclear Receptors: Past, Present, and Future - RM Evans (2009) In D. Chakravarti, Regulatory Mechanisms in Transcriptional Signaling. Vol. 87, XI-XIII.

Suprachiasmatic Nucleus: Cell Autonomy and Network Properties - DK Welsh, JS Takahashi& SA Kay (2010) In Annual Review of Physiology. Vol. 72, 551-577.

The Genetics of Circadian Rhythms in Neurospora - PL Lakin-Thomas, D Bell-Pedersen& S Brody (2011) In S. Brody, Genetics of Circadian Rhythms. Vol. 74, 55-103.

The Itty-Bitty Time Machine: Genetics of the Cyanobacterial Circadian Clock - SR Mackey, SS Golden& JL Ditty (2011) In S. Brody, Genetics of Circadian Rhythms. Vol. 74, 13-53.

Volume 74 the Genetics of Circadian Rhythms Introduction - S Brody (2011) In S. Brody, Genetics of Circadian Rhythms. Vol. 74, 1-12.

OTHER (38)

5 Year Review ? Journal Reviews (2009-2013)

A FoxL in the Smad House: Activin Regulation of FSH - D Coss, PL Mellon& VG Thackray (2010) In Trends in Endocrinology and Metabolism, Vol. 21, 562-568

A Proposal for a Coordinated Effort for the Determination of Brainwide Neuroanatomical Connectivity in Model Organisms at a Mesoscopic Scale - JW Bohland, CZ Wu, H Barbas, H Bokil, M Bota, HC Breiter, HT Cline, JC Doyle, PJ Freed, RJ Greenspan, SN Haber, M Hawrylycz, DG Herrera, CC Hilgetag, ZJ Huang, A Jones, EG Jones, HJ Karten, D Kleinfeld, R Kotter, HA Lester, JM Lin, BD Mensh, S Mikula, J Panksepp, JL Price, J Safdieh, CB Saper, ND Schiff, JD Schmahmann, BW Stillman, K Svoboda, LW Swanson, AW Toga, DC Van Essen, JD Watson& PP Mitra (2009) In Plos Computational Biology, Vol. 5,

AMPK at the Crossroads of Circadian Clocks and Metabolism - SD JordanKA Lamia (2013) In Molecular and Cellular Endocrinology, Vol. 366, 163-169

An Expanding Universe of Circadian Networks in Higher Plants - JL Pruneda-PazSA Kay (2010) In Trends in Plant Science, Vol. 15, 259-265

Bacterial Growth Laws and Their Applications - M ScottT Hwa (2011) In Current Opinion in Biotechnology, Vol. 22, 559-565

Biomarkers of PTSD: Neuropeptides and Immune Signaling - DG Baker, CM Nievergelt& DT O'Connor (2012) In Neuropharmacology, Vol. 62, 663-673

Cellular Circadian Clocks in Mood Disorders - MJ McCarthyDK Welsh (2012) In Journal of Biological Rhythms, Vol. 27, 339-352

Cognition in Obstructive Sleep Apnea-Hypopnea Syndrome (OSAS): Current Clinical Knowledge and the Impact of Treatment - SA Kielb, S Ancoli-Israel, GW Rebok& AP Spira (2012) In Neuromolecular Medicine, Vol. 14, 180-193

Coming of Age in the Kisspeptin Era: Sex Differences, Development, and Puberty - AS Kauffman (2010) In Molecular and Cellular Endocrinology, Vol. 324, 51-63

Computational Modeling of Phosphotransfer Complexes in Two-Component Signaling - A Schug, M Weigt, JA Hoch, JN Onuchic, T Hwa& H Szurmant (2010) In M. I. Simon, B. R. Crane and A. Crane, Methods in Enzymology, Vol 471: Two-Component Signaling Systems, Part C. Vol. 471, 43-58.

Computational Models of Neuron-Astrocyte Interaction in Epilepsy - V Volman, M Bazhenov& TJ Sejnowski (2012) In Frontiers in Computational Neuroscience, Vol. 6,

Convergent Evidence for Abnormal Striatal Synaptic Plasticity in Dystonia - DA Peterson, TJ Sejnowski& H Poizner (2010) In Neurobiology of Disease, Vol. 37, 558-573

Diagnostic Tools for REM Sleep Behavior Disorder - AB NeikrugS Ancoli-Israel (2012) In Sleep Medicine Reviews, Vol. 16, 415-429

Does Effective Management of Sleep Disorders Reduce Cancer-Related Fatigue? - PC Zee, S Ancoli-Israel& P Workshop (2009) In Drugs, Vol. 69, 29-41

Epigenetic Codes of PPAR Gamma in Metabolic Disease - S SugiiRM Evans (2011) In Febs Letters, Vol. 585, 2121-2128

Evidence-Based Recommendations for the Assessment and Management of Sleep Disorders in Older Persons - HG Bloom, I Ahmed, CA Alessi, S Ancoli-Israel, DJ Buysse, MH Kryger, BA Phillips, MJ Thorpy, MV Vitiello& PC Zee (2009) In Journal of the American Geriatrics Society, Vol. 57, 761-789

How Nox2-Containing NADPH Oxidase Affects Cortical Circuits in the NMDA Receptor Antagonist Model of Schizophrenia - X Wang, A Pinto-Duarte, TJ Sejnowski& MM Behrens (2013) In Antioxidants & Redox Signaling, Vol. 18, 1444-1462

Inference of Direct Residue Contacts in Two-Component Signaling - B Lunt, H Szurmant, A Procaccini, JA Hoch, T Hwa& M Weigt (2010) In M. I. Simon, B. R. Crane and A. Crane, Methods in Enzymology, Vol 471: Two-Component Signaling Systems, Part C. Vol. 471, 17-41.

Limits of Single-Cell Autonomy in the Suprachiasmatic Nucleus - DK Welsh (2009) In Sleep and Biological Rhythms, Vol. 7, 252-259

Microfluidic Devices for Measuring Gene Network Dynamics in Single Cells - MR BennettJ Hasty (2009) In Nature Reviews Genetics, Vol. 10, 628-638

Minireview: Evolution of NURSA, the Nuclear Receptor Signaling Atlas - NJ McKenna, AJ Cooney, FJ DeMayo, M Downes, CK Glass, RB Lanz, MA Lazar, DJ Mangelsdorf, DD Moore, J Qin, DL Steffen, MJ Tsai, SY Tsai, R Yu, RN Margolis, RM Evans& BW O'Malley (2009) In Molecular Endocrinology, Vol. 23, 740-746

Nuclear Receptors as Modulators of the Tumor Microenvironment - MH Sherman, M Downes& RM Evans (2012) In Cancer Prevention Research, Vol. 5, 3-10

Organizational and Activational Effects of Sex Steroids on Kisspeptin Neuron Development - MC PolingAS Kauffman (2013) In Frontiers in Neuroendocrinology, Vol. 34, 3-17

Phytochrome Signaling Mechanisms and the Control of Plant Development - M ChenJ Chory (2011) In Trends in Cell Biology, Vol. 21, 664-671

Primer on Agar-Based Microbial Imaging Mass Spectrometry - JY Yang, VV Phelan, R Simkovsky, JD Watrous, RM Trial, TC Fleming, R Wenter, BS Moore, SS Golden, K Pogliano& PC Dorrestein (2012) In Journal of Bacteriology, Vol. 194, 6023-6028

Recent Advances in Single-Cell Studies of Gene Regulation - J Selimkhanov, J Hasty& LS Tsimring (2012) In Current Opinion in Biotechnology, Vol. 23, 34-40