Center for Chronobiology

Annual Review of the Organized Research Unit
Fiscal Year 2010

The University of California, San Diego
Center for Chronobiology
NARRATIVE

Summary of Major Activities and Goals for Coming Year

During our inaugural year as an ORU, the Center for Chronobiology had immediate goals of putting CCB on the map both on campus and around the world as a premier center for chronobiology research. We met these goals by: hosting local activities and outfitting facilities to engage our members and encourage interaction; launching an attractive and informative website; and hosting a symposium with top chronobiologist speakers from within CCB and across the nation.

Goals Met:

- Established the Center for Chronobiology ORU with 25 UCSD faculty members joining as of June 30, 2010. CCB also had active involvement from 19 researchers, 29 postdocs, 35 graduate students, 6 undergraduate students and 7 visitors.
- Established members in the four research clusters and encouraged research collaboration: Oscillator Networks, Molecular Clock Mechanisms, Metabolism & Physiology, and Sleep & Behavior.
- Established the CCB Executive Committee and currently we are recruiting members for the CCB External Advisory Committee.
- Awarded three mini-grants to encourage collaborative research and provide seed funding for future proposals to be submitted through CCB.
- Hosted CCB symposia, workshops, and networking events to provide training of the fundamentals of Chronobiology to the science community.
- Coordinated “Clockwatchers” Journal Club to make CCB participants aware of current papers in the area of chronobiology. Clockwatchers meets twice per month, alternating between mammalian and non-mammalian papers.
- Launched an evolving educational website http://ccb.ucsd.edu/ with links for students and researchers in the Chronobiology communities that highlight classes, papers, events, organizations, and opportunities for fellowships, training, and grants.

Major Activities:

Faculty Club Lunch Meetings to Introduce the Center for Chronobiology to CCB Faculty Members
September 9, 2009 and September 17, 2009
Informal lunch meetings were held on two different dates to allow all CCB faculty members to share a few words about what they do and discuss plans for the new institute.

Mini-Symposium on Circadian Rhythms
This symposium was co-sponsored with the San Diego Consortium for Systems Biology (http://ccb.ucsd.edu/ae-pastevents-MS1.shtml)
October 23, 2009
Frederic de Hoffman Auditorium, Salk Institute for Biological Studies

Speakers:
Susan Golden, UCSD
David Welsh, UCSD
Ying-Hui Fu, UCSF (external invited speaker)
Joanne Chory, Salk Institute & Division of Biological Sciences
Satchin Panda, Salk Institute & Division of Biological Sciences
Steve Kay, UCSD
Ron Evans, Salk Institute and Division of Biological Sciences

Roche, Applied Biosystems, Illumina, Qiagen, and Thermo Scientific sponsored the mini-symposium.
There were 130 registered attendees.

Mini-Symposium on Circadian Rhythms
(http://ccb.ucsd.edu/ae-pastevents-MS2.shtml)
November 13, 2010
Atkinson Pavilion Faculty Club
Speakers:
Michael Gorman, UCSD
Alexander Kauffman, UCSD
Sonia Ancoli-Israel, UCSD
William Bechtel, UCSD
Barbara Parry, UCSD
Timothy Rickard, UCSD
Jeff Hasty, UCSD
Stu Brody, UCSD

There were 69 registered attendees

Reception for CCB Research Staff
December 2, 2009
Mandeville Suite, Tioga Hall

The Center for Chronobiology held a reception specifically for researchers who are not faculty members in CCB. This included graduate students, postdocs, staff research associates, project scientists, research scientists, visiting scientists, and other researchers who are all an integral part of CCB. We wanted to help them get to know one another and also introduce them to the ways in which the CCB can support their research activities and professional development.

CCB website: http://ccb.ucsd.edu/

This attractive, content-rich site was developed by a professional web designer and CCB student. The website has already logged over 1,000 hits from over 30 countries.

CCB Symposium: From Cells to the Clinic
(http://ccb.ucsd.edu/ae-pastevents-Symp2010.shtml)
The Center for Chronobiology (CCB) hosted an inaugural chronobiology symposium held March 10-12, 2010. The theme for the symposium was "From Cells to the Clinic."

We invited a select, stellar group of chronobiologists from around the country and beyond, and a few local colleagues, to speak at this first annual UCSD Chronobiology Symposium. There was strong participation from our 25 PIs here in the CCB and their research personnel, as well as registrants from other institutions.

The aims of the conference were to:
1. Provide participants with a comprehensive view of modern Chronobiology.
2. Exchange a broad spectrum of ideas and techniques in Chronobiology.
3. Promote interactions among the faculty and lab personnel of the UCSD Chronobiology Center, the invited speakers, and other participants.
4. Further acquaint the speakers, their groups, and other registrants with the depth and breadth of Chronobiology research conducted at UCSD.

Invited Speakers

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<td>Horacio de la Iglesia</td>
<td>University of Washington</td>
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<td>Frank Doyle</td>
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<td>Jay Dunlap</td>
<td>Dartmouth Medical School</td>
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<td>Ralph Greenspan</td>
<td>UC San Diego</td>
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<td>Stacey Harmer</td>
<td>UC Davis</td>
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<td>Lynn Hasher</td>
<td>University of Toronto</td>
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<td>Jeff Hasty</td>
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<td>Steve Kay</td>
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<tr>
<td>Elizabeth Klerman</td>
<td>Harvard University</td>
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<td>C. Robertson McClung</td>
<td>Dartmouth College</td>
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<td>Randy Nelson</td>
<td>The Ohio State University</td>
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<tr>
<td>Michael Nitabach</td>
<td>Yale University</td>
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<tr>
<td>Erin O'Shea</td>
<td>Harvard University</td>
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<tr>
<td>Paolo Sassone-Corsi</td>
<td>UC Irvine</td>
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Johnson & Johnson and the Bay City Capital Foundation sponsored the symposium. There were 120 registered attendees.

**CCB Open House**
(http://ccb.ucsd.edu/ae-pastevents-OpenHouse2010.shtml)
The Center for Chronobiology hosted an Open House on **Tuesday, July 20, 2010**. We were able to show off our new office suite and **conference room** with a state-of-the-art Smart Board interactive whiteboard system. We have two administrative offices next to the conference room to provide assistance to CCB members from full-time Administrative Specialist Pattie Magallanez and Business Manager, shared with the BioCircuits Institute, Terry Peters. The event was held in the newly appointed conference Room 2840 in the AP&M building. The turnout was fantastic. Guests were able to try our new smart board which was certainly a hit.

**Submission of grant and fellowship applications**
The Center for Chronobiology faculty members submitted a successful proposal to the UCSD Chancellor’s Collaboratories Program for Interdisciplinary Scholarships for graduate students. The project is entitled, “Emergent circadian waveforms from multiple component oscillators: computational, biosynthetic, microbial and vertebrate models.” Combining microbial, mammalian, biosynthetic and computation approaches, this Collaboratory will undertake a novel examination of how plasticity in the daily shape (i.e., waveform) of circadian clocks derives from the interaction of their constituent parts. Knowledge of such interactions will advance basic science in engineering, ecology and cell biology and benefit society through implications ranging from scheduling of school days to mitigation of cancer risks for shift-workers. Each of the five graduate students was awarded approximately $15,000.

The Center for Chronobiology submitted an NSF proposal and three NIH NRSA postdoctoral fellowship applications during 2010.

Johnson & Johnson and the Bay City Capital Foundation donated $4,500 to sponsor the Inaugural Center for Chronobiology Symposium: From Cells to the Clinic, March 10-12, 2010.

Professor Emeritus Stanley Mills donated $4,500 to the Center for Chronobiology.

**Successful Application to Las Patronas**
Las Patronas funded a Real-Time Polymerase Chain Reaction (RT-PCR) machine which will be used by CCB members for cutting-edge research in medical diagnostics and related areas of study (a gift of approximately $30,000). The equipment will be purchased in 2011.

**Clockwatchers Journal Club**
(http://ccb.ucsd.edu/activitiesevents.shtml)
The “Clockwatchers” Journal Club was founded and organized by David Welsh, and is now coordinated through the CCB. The Clockwatchers group has met monthly since 2001, focusing on papers of interest in mammalian circadian rhythms. With the establishment of CCB, Clockwatchers was expanded in fall 2009 to meet twice per month, alternating between mammalian and non-mammalian papers to meet the needs of the full spectrum of the CCB members. The Clockwatchers group meets every 1st and 3rd Thursday during the academic year.

**Dates of Executive Committee meetings**
October 28, 2009
November 17, 2009
December 1, 2009
January 7, 2010
February 2, 2010
External Advisory Committee

We are in the process of assembling the CCB external advisory committee. We have assembled a prioritized list and will invite the following people as our first choices:

1. Gene Block, Chancellor of UCLA
2. Mike Young, Rockefeller University
3. Joseph Takahashi, University of Texas Southwestern Medical School
4. Alex Hoffmann, UCSD Chemistry & Biochemistry
5. Phyllis Zee, Northwestern University
6. David Brenner, UCSD Dean of Medical School

CCB Goals for coming year:

- Facilitate submissions to federal agencies for collaborative research (such as program project, multi-investigator research, and training grants)
- Expand development efforts
- Develop summer chronobiology tutorial course as pilot for international summer course
- Host international symposium
- Recruit postdoc liaison to CCB Executive Committee to integrate needs and ideas from CCB postdocs and graduate students
- Plan workshop featuring a high-profile speaker in the Chronobiology field, as well as UCSD postdoc and graduate student speakers, who can share their research and hone their speaking skills
- Establish CCB External Advisory Board and hold first meeting

CCB Mini-Symposium on Biological Timing
(http://ccb.ucsd.edu/ae-pastevents-workshopFA2010.shtml)
November 8, 2010
Atkinson Pavilion Faculty Club

Speakers:
William Joiner, UCSD – faculty speaker
John Buchner, UCSD – postdoctoral speaker
Katja Lamia, The Scripps Research Institute
Terry Hwa, UCSD– faculty speaker
Luciano DiTacchio, The Salk Institute for Biological Studies – postdoctoral speaker
Gena Glickman, UCSD – graduate student speaker
Sean Drummond, UCSD– faculty speaker
Takako Noguchi, UCSD – postdoctoral speaker
Lev Tsimring, UCSD– faculty speaker
Dmitri Nusinow, UCSD – postdoctoral speaker
Eric Zhang, UCSD – postdoctoral speaker

There were 75 registered attendees

CCB Symposium: From Cells to the Clinic
(http://ccb.ucsd.edu/activitiesevents-symposium.shtml#symposium)

The Center for Chronobiology will host its 2nd annual chronobiology symposium to be held February 9-11, 2011. The theme for the symposium is “From Cells to the Clinic.”
We invited a select, stellar group of chronobiologists from around the world, and a few local colleagues, to speak at this 2nd annual UCSD Chronobiology Symposium. We expect strong participation from our 25 PIs here in the CCB and their research personnel, and plan to accommodate a limited number of registrants from other institutions as well.
The aims of the conference are to:
1. Provide participants with a comprehensive view of modern Chronobiology.
2. Exchange a broad spectrum of ideas and techniques in Chronobiology.
3. Promote interactions among the faculty and lab personnel of the UCSD Chronobiology Center, the invited speakers, and other participants.
4. Further acquaint the speakers, their groups, and other registrants with the depth and breadth of Chronobiology research conducted at UCSD.

Invited Speakers:

Alec Davidson  
Morehouse School of Medicine

Kenneth Wright  
University of Colorado at Boulder

Andrew Millar  
University of Edinburgh

Marc Montminy  
Salk Institute for Biological Studies & UC San Diego

Charles Allen  
Oregon Health & Science University

Ronald Evans  
Salk Institute for Biological Studies & UC San Diego

Chris Colwell  
University of California, Los Angeles

Sarah Elsea  
Virginia Commonwealth University

David Berson  
Brown University

Satchin Panda  
Salk Institute for Biological Studies & UC San Diego

David Somers  
Ohio State University

Sonia Ancoli-Israel  
UC San Diego

Deborah Bell-Pedersen  
Texas A&M University

Susan Golden  
UC San Diego

Derk-Jan Dijk  
University of Surrey

Todd Holmes  
UC Irvine

John O’Neill  
University of Cambridge

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Students, Postdocs, Researchers, and Visitors contributing to CCB

Names, Titles, & Department of UG students, Graduate students, and Postdoctoral scholars, Visitors, and Researchers directly contributing to the units work (c):

**Undergraduates (6) & Graduate Students (35):**

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Atwood, Ann</td>
<td>Graduate Student</td>
<td>Division of Biological Sciences</td>
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<td>Cai, Denise</td>
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<td>Clark, Dan</td>
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### Postdocs (29):

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<td>Bordowitz, Juliana</td>
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<td>Hator, Megumi</td>
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<td>Kim, Yong-Ick</td>
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<td>Nusinow, Dmitri</td>
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<tr>
<td>Pruneda-Paz, Jose</td>
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Researchers (19):

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<tr>
<td>Abrahamsen, Adele</td>
<td>Proj. Scientist</td>
<td>Department of Philosophy</td>
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<tr>
<td>Andretic, Rozi</td>
<td>Research Fellow</td>
<td>Kavli Institute for Brain &amp; Mind</td>
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<td>Bree, Anna</td>
<td>Staff Research Associate</td>
<td>Division of Biological Sciences</td>
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<td>Dhamija, Sangeeta</td>
<td>Staff Research Associate</td>
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<td>Greenspan, Ralph</td>
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<td>Kavli Institute for Brain &amp; Mind</td>
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<td>Katsuki, Takeo</td>
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<td>King, Jasmine</td>
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<td>López, Ana M.</td>
<td>Staff Research Associate</td>
<td>Department of Surgery</td>
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<td>Maglione, Jeanne</td>
<td>Resident physician</td>
<td>Department of Psychiatry (School of Medicine)</td>
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<td>Martínez, Luis Fernando</td>
<td>Staff Research Associate II</td>
<td>Department of Psychiatry (School of Medicine)</td>
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<td>Meliska, Charles J.</td>
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<td>Na, Kellen</td>
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<td>Pan, Haiyun</td>
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<td>Rex, Kathy</td>
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<td>Rulkov, Nikolai</td>
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<td>Tsimring, Lev</td>
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Visitors (7):

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<tr>
<td>Kitayama, Yohko</td>
<td>Visiting Scholar - Postdoc</td>
<td>Division of Biological Sciences Nagoya University</td>
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<tr>
<td>Liu, Xianzhong (Leo)</td>
<td>Visiting Scholar -SRA</td>
<td>Department of Biological Sciences</td>
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<td>Schultz, Roy</td>
<td>Visiting Scholar</td>
<td>BioCircuits Institute (BCI)</td>
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<td>Shannahoff-Khalsa, David</td>
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<td>Wang, Susanna</td>
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<td>Department of Biological Sciences</td>
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<td>Wright, Jon</td>
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<td>Zhang, Eric</td>
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Center for Chronobiology Symposium - "From Cells to the Clinic", March 10-12, 2010
Center for Chronobiology Mini-symposium - "Circadian Rhythms", November, 13, 2009

The Center for Chronobiology presents a Mini-symposium on

Circadian Rhythms

8:30 am - 5:00 pm, Friday, November 13, 2009
Atkinson Pavilion, UCSD Faculty Club

UCSD SPEAKERS
Michael Goldman, Alexander Kauffman, Sonia Ancill-Israel
William Bechter, Barbara Parry, Timothy Rickard
Jeff Healy, Stu Brody

UCSD Organizers
Stu Brody, Susan Golden
Michael Goldman, David Welch

Center for Chronobiology website: http://ucsd.edu/chronobiology

Center for Chronobiology Mini-symposium - "Circadian Rhythms", October, 23, 2009

The San Diego Consortium for Systems Biology and The Center for Chronobiology present a Mini-symposium on

Circadian Rhythms

### STAFFING

#### ADVISORY COMMITTEE

<table>
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### DIRECTORS

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<td>7/1/2009</td>
<td>6/30/2014</td>
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### AFFILIATED FACULTY

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### RESEARCHERS

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### POST DOCS

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STAFF

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<td>Terry</td>
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STUDENTS

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ORGANIZATION CHART

PPS Head Count

Total

FACILITIES
### Administrative Office
- Conference Room: 270
- Totals: 551

### Permanent Budget

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### Contract and Grant Allocations - Unit Code: 432

#### Sponsor Category Totals - Unit Code: 432

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## EXPENSE

### Expense Summary

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## EVENTS

### SEMINARS (16)

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<th>Title</th>
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<tr>
<td>The Transcriptional Repressor DEC2 Regulates Sleep Length in Mammals</td>
<td>2009-10-01</td>
<td>Dan Kripke</td>
<td>UCSD Liechtag, 2A05</td>
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<td>Diurnally Entertained Anticipatory Behavior in Archaea</td>
<td>2009-10-15</td>
<td>Colleen Doherty</td>
<td>Leichtag 2A05</td>
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<td>Dissociation of Circadian and Light Inhibition of Melatonin Release Through Forced Desynchronization in the Rat</td>
<td>2009-11-05</td>
<td>Gena Glickman</td>
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<td>Cyanobacterial Daily Life with Kai-based Circadian and Diurnal Genome-Wide Transcriptional Control in Synechococcus elongatus</td>
<td>2009-11-19</td>
<td>John Buchner</td>
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<td>AMPK Regulates the Circadian Clock by Cryptochrome Phosphorylation and Degradation</td>
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<td>Yhew Pongsawakul</td>
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<td>Circadian Rhythms in Neurospora crassa: Dynamics of the Clock Component Frequency Visualized Using a Fluorescent Reporter</td>
<td>2009-12-17</td>
<td>Michael Ferry</td>
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<td>Correlation with Behavioral Activity and Rest Implies Circadian Regulation by SCN Neuronal Activity Levels</td>
<td>2010-01-07</td>
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<td>The Implications of Multiple</td>
<td>2010-01-21</td>
<td>Ralph Greenspan</td>
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Circadian Clock Origins
Millisecond Light Pulses Make Mice Stop Running, then Display Prolonged Sleep-Like Behavior in the Absence of Light
2010-02-04 Jeff Elliott
Leichtag 2A05

Elevated ATPase Activity of KaiC Applies a Circadian Checkpoint on Cell Division in Synechococcus elongatus
2010-02-18 Guogang Dong
Leichtag 2A05

Small-World Network Models of Intercellular Coupling Predict Enhanced Synchronization in the Suprachiasmatic Nucleus
2010-03-04 Bill Bechtel
Leichtag 2A05

The methamphetamine-sensitive circadian oscillator does not employ canonical clock genes
2010-04-04 Mike McCarthy
Leichtag 2A05

Animal cryptochromes mediate magnetoreception by an unconventional photochemical mechanism
2010-04-15 Ann Atwood
Leichtag 2A05

Genetic suppression of the circadian Clock mutation by the melatonin biosynthesis pathway
2010-05-06 Evan Raiewski
Leichtag 2A05

PSEUDO-RESPONSE REGULATORS 9, 7, and 5 Are Transcriptional Repressors in the Arabidopsis Circadian Clock
2010-05-20 Colleen Doherty
Leichtag 2A05

Circadian Clock Gene Bmal1 Is Not Essential; Functional Replacement with its Paralog, Bmal2
2010-06-03 Takako Noguchi
Leichtag 2A05

LECTURES (0)

CONFERENCES (3)

Title
Mini-Symposium on Circadian Rhythms
Mini-Symposium on Circadian Rhythms
CCB Symposium: From Cells to the Clinic

Date
2009-10-23
2009-11-13
2010-05-10

Presenter
Susan Golden-UCSD, David Welsh-UCSD, Ying-Hui Fu-UCSF, Joanne Chory-Salk, Satchin Panda-Salk, Steve Kay-UCSD, and Ron Evans-Salk
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
Frederic de Hoffman Auditorium, Salk Institute for Biological Studies
Atkinson Pavilion, UCSD Faculty Club
Institute of the Americas, UCSD

OTHER (3)

Title
Faculty Club Lunch Meetings to Introduce the Center for

Date
2009-09-09

Presenter
Susan Golden and Stu Brody

Location
Faculty Club
Chronobiology to CCB Faculty Members
Faculty Club Lunch Meetings to Introduce the Center for Chronobiology to CCB Faculty Members
Reception for CCB Research Staff

PUBLICATIONS

JOURNALS (280)

Author(s): Ancoli-Israel, S (Ancoli-Israel, Sonia) Title: Sleep and Ethnicity Source: BEHAVIORAL SLEEP MEDICINE, 8 (4): 191-193 2010ISSN: 1540-2002 DOI: 10.1080/15402002.2010.509186

Author(s): Tomfohr, LM (Tomfohr, Lianne M.); Ancoli-Israel, S (Ancoli-Israel, Sonia);Dimsdale, JE (Dimsdale, Joel E.) Title: Childhood Socioeconomic Status and Race Are Associated With Adult Sleep Source: BEHAVIORAL SLEEP MEDICINE, 8 (4): 219-230 2010ISSN: 1540-2002 DOI: 10.1080/15402002.2010.509236

Author(s): Weiss, J (Weiss, J.); Zinner, N (Zinner, N.); Daneshgari, F (Daneshgari, F.); Klein, B (Klein, B.); Norgaard, JP (Norgaard, J. P.); Ancoli-Israel, S (Ancoli-Israel, S.) Title: Desmopressin Orally Disintegrating Tablet Effectively Reduces Symptoms Of Nocturia And Prolongs Undisturbed Sleep In Patients With Nocturia: Results Of A Randomized Placebo-Controlled Study Source: INTERNATIONAL UROGYNECOLOGY JOURNAL, 21: S285-S287 198 Suppl. 1 AUG 2010ISSN: 0937-3462

Author(s): Ayalon, L (Ayalon, Liat); Ancoli-Israel, S (Ancoli-Israel, Sonia); Drummond, SPA (Drummond, Sean P. A.) Title: Obstructive Sleep Apnea and Age A Double Insult to Brain Function? Source: AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, 182 (3): 413-419 AUG 1 2010ISSN: 1073-449X DOI: 10.1164/rccm.200912-1805OC

Author(s): Lee, IS (Lee, In-Soo); Bardwell, WA (Bardwell, Wayne A.); Ancoli-Israel, S (Ancoli-Israel, Sonia); Dimsdale, JE (Dimsdale, Joel E.); Grant, I (Grant, Igor) Title: Number of Lapses during the Psychomotor Vigilance Task as an Objective Measure of Fatigue Source: JOURNAL OF CLINICAL SLEEP MEDICINE, 6 (2): 163-168 APR 15 2010ISSN: 1550-9389

Author(s): Neikrug, AB (Neikrug, A. B.); Ancoli-Israel, S (Ancoli-Israel, S.) Title: Sleep disturbances in nursing homes Source: JOURNAL OF NUTRITION HEALTH & AGING, 14 (3): 207-211 MAR 2010ISSN: 1279-7707 DOI: 10.1007/s12603-010-0051-8

Author(s): Paudel, ML (Paudel, Misti L.); Taylor, BC (Taylor, Brent C.); Ancoli-Israel, S (Ancoli-Israel, Sonia); Blackwell, T (Blackwell, Terri); Stone, KL (Stone, Katie L.); Tranah, G (Tranah, Greg); Redline, S (Redline, Susan); Cummings, SR (Cummings, Steven R.); Ensrud, KE (Ensrud, Kristine E.) Group Author(s): Osteoporotic Fractures Men MROS
Sleep StudySource: CHRONOBIOLOGY INTERNATIONAL, 27 (2): 363-377 2010ISSN: 0742-0528DOI: 10.3109/07420520903419157

Author(s): Roepke, SK (Roepke, Susan K.); Ancoli-Israel, S (Ancoli-Israel, Sonia)Title: The moderating role of personal mastery on the relationship between caregiving status and multiple dimensions of fatigueSource: INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY, 24 (12): 1453-1462 DEC 2009ISSN: 0885-6230DOI: 10.1002/gps.2286

Author(s): Moore, M (Moore, Melisa); Kirchner, HL (Kirchner, H. Lester); Drotar, D (Drotar, Dennis); Johnson, N (Johnson, Nathan); Rosen, C (Rosen, Carol); Ancoli-Israel, S (Ancoli-Israel, Sonia); Redline, S (Redline, Susan)Title: Relationships Among Sleepiness, Sleep Time, and Psychological Functioning in AdolescentsSource: JOURNAL OF PEDIATRIC PSYCHOLOGY, 34 (10): 1175-1183 NOV-DEC 2009ISSN: 0146-8693DOI: 10.1093/jpepsy/jsp039

Author(s): Ensrud, KE (Ensrud, Kristine E.); Blackwell, TL (Blackwell, Terri L.); Redline, S (Redline, Susan); Ancoli-Israel, S (Ancoli-Israel, Sonia); Paudel, ML (Paudel, Misti L.); Cawthon, PM (Cawthon, Peggy M.); Dam, TTL (Dam, Thyu-Tien L.); Barrett-Connor, E (Barrett-Connor, Elizabeth); Leung, PC (Leung, Ping C.); Stone, KL (Stone, Katie L.)Group Author(s): Osteoporotic Fractures Men Study GTitle: Sleep Disturbances and Frailty Status in Older Community-Dwelling MenSource: JOURNAL OF THE AMERICAN GERIATRICS SOCIETY, 57 (11): 2085-2093 NOV 2009ISSN: 0002-8614DOI: 10.1111/j.1532-5415.2009.02490.x

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