

Sunday, March 4th

3:00 pm Check-in

6:00 pm Reception (*Lobby*)

7:00 pm Dinner

8:00 pm Keynote Talk: Takao Kondo, Nagoya University
*Circadian pacemaker of cyanobacteria by intramolecular feedback of KaiC
ATPase*

9:00 pm Refreshments available at Bob's Pub

Monday, March 5th

- 7:30 am Breakfast (*service ends at 8:45 am*)
- 9:00 am Session 1**
Chair: Joe Takahashi
- 9:00 am **Michael Brunner**, University of Heidelberg
A global transcription repressor links metabolism and the circadian clock of Neurospora
- 9:30 am **Deborah Bell-Pedersen**, Texas A&M University
Global gene regulatory networks control circadian output in neurospora
- 10:00 am **Jay Dunlap**, Dartmouth Medical School
Genetic and molecular dissection of the neurospora circadian oscillatory system
- 10:30 am Break
- 11:00 am Session 2**
Chair: Martha Merrow
- 11:00 am **Susan S. Golden**, University of California, San Diego
Signal transduction into and out of the cyanobacterial circadian oscillator
- 11:30 am **Erin O'Shea**, HHMI/Harvard University
Timekeeping by a three-protein circadian clock
- 12:00 pm **Andrew Oates**, Max Planck Institute of Molecular Cell Biology and Genetics
Mechanism and coordination of oscillating cells in the embryo's segmentation clock
- 12:30 pm Lunch
- 2:00 pm Session 3**
Chair: Michael Rosbash
- 2:00 pm **Steve A. Kay**, University of California, San Diego
Large scale discovery approaches to understanding circadian networks
- 2:30 pm **Ueli Schibler**, University of Geneva
Signaling within the mammalian circadian timing system
- 3:00 pm **Achim Kramer**, Charité - Universitätsmedizin Berlin
Posttranslational mechanisms in the mammalian circadian clock

Janelia Farm Conference: Circadian Clocks: Mechanisms, Coordination, and Physiology

3:30 pm	Break
4:00 pm	Session 4 Chair: Steve Kay
4:00 pm	Brian Zoltowski , Southern Methodist University <i>Structure and function of Drosophila cryptochrome</i>
4:30 pm	Michael Nitabach , Yale School of Medicine <i>Peptide and classical neurotransmitter regulation of daily activity</i>
5:00 pm	Justin Blau , New York University <i>Electrical activity imposes time-of-day on the circadian transcriptome</i>
5:15 pm	Ravi Allada , Northwestern University <i>A novel translational control pathway critical for circadian rhythms in Drosophila</i>
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Refreshments available at Bob's Pub

Tuesday, March 6th

- 7:30 am Breakfast (*service ends at 8:45 am*)
- 9:00 am Session 5**
Chair: Erin O'Shea
- 9:00 am **Felix Naef**, École Polytechnique Fédérale de Lausanne (EPFL)
Studying circadian transcription regulatory networks on long and short time scales
- 9:30 am **Michael Rosbash**, HHMI/Brandeis University
Transcriptional and post-transcriptional regulation of circadian gene expression
- 10:00 am **Carla Green**, UT Southwestern Medical Center
Dynamic polyadenylation and circadian gene expression
- 10:30 am Break
- 11:00 am Session 6**
Chair: Jay Dunlap
- 11:00 am **John Hogenesch**, University of Pennsylvania
Genomic approaches to study metabolic information flow
- 11:30 am **Hiroki R. Ueda**, RIKEN Brain Science Institute
Systems and synthetic biology of mammalian circadian clocks
- 12:00 pm **Satchin Panda**, Salk Institute for Biological Studies
Oscillating transcription uncovers a highly dynamic epigenome
- 12:15 pm Lunch
- 1:00 pm Tour (*optional - meet at reception*)
- 2:00 pm Session 7**
Chair: Michael Hastings
- 2:00 pm **Joseph T. Bass**, Northwestern University
Molecular clocks and metabolic oscillators: Role of NAD turnover
- 2:30 pm **Benjamin P. Tu**, UT Southwestern Medical Center
Logic of a metabolic cycle

Janelia Farm Conference: Circadian Clocks: Mechanisms, Coordination, and Physiology

- 3:00 pm **John S. O'Neill**, University of Cambridge
Circadian rhythms of metabolism in erythrocytes
- 3:30 pm Break
- 4:00 pm** **Session 8**
Chair: Deborah Bell-Pedersen
- 4:00 pm **Martha Merrow**, University of Groningen
Temperature compensation revisited
- 4:30 pm **David Rand**, Warwick Systems Biology Centre
Understanding temperature effects and regulation: Theory and experiment
- 5:00 pm **Joerg Morf**, University of Geneva
Transcriptome-wide interactions of the Cold-inducible RNA-binding protein CIRP reveal regulation of circadian gene expression
- 5:15 pm **Eva Wolf**, Max Planck Institute of Biochemistry
Structure-function analyses of circadian clock proteins
- 5:30 pm Poster Reception
- 7:00 pm Dinner
- 8:00 pm** **Keynote Talk: Rama Ranganathan**, UT Southwestern Medical Center
Evolutionary principles of protein structure and function
- 9:00 pm Refreshments available at Bob's Pub

Wednesday, March 7th

- 7:30 am Breakfast (*service ends at 8:45 am*)
- 9:00 am Session 9**
Chair: Carla Green
- 9:00 am **Samer Hattar**, Johns Hopkins University
Atypical photoreceptors influence circadian rhythms, sleep and mood
- 9:30 am **Michael H. Do**, Children's Hospital Boston, Harvard Medical School
Properties and mechanisms of signaling by melanopsin retinal ganglion cells
- 10:00 am **Michael Hastings**, MRC Laboratory of Molecular Biology
Analysis of transcriptional and cellular circuit functions in the suprachiasmatic nucleus
- 10:30 am Break
- 11:00 am Session 10**
Chair: Joseph Bass
- 11:00 am **David K. Welsh**, University of California, San Diego
*Persistent cell-autonomous circadian oscillations in fibroblasts revealed by six-week single-cell imaging of PER2::*LUC* bioluminescence*
- 11:30 am **Seth Blackshaw**, Johns Hopkins University School of Medicine
Winding the clock: Transcriptional control of SCN development and function
- 11:45 am **Tsuyoshi Hirota**, University of California, San Diego
A chemical biology approach for understanding mammalian circadian clock mechanisms
- 12:00 pm Lunch and Departure (*To-go boxes available in servery for those on first shuttle*)
- 12:30 pm First shuttle to Dulles
- 1:15 pm Second shuttle to Dulles
- 2:00 pm Last shuttle to Dulles