

2016 International Chronobiology Summer School

(August 1-6)

INTRODUCTION

CONTENT

*** The registration is now closed, but the morning sessions (public lectures) are open to both registered and unregistered students. Welcome to join us!

Morning Sessions

Public Lectures (L1 - L12)

Afternoon Sessions

Workshops (W1 - W3)

Poster Session/Sponsors' Social hours

Field trip

Evening Sessions

Discussions (D1 - D3)

Meeting with the experts:

Banquet

INSTRUCTORS

- *University of California - Davis*
- *Peking University People's Hospital*
- *Johns Hopkins University*
- *China Agricultural University*
- *University of Würzburg*
- *Hokkaido University*
- *Hokkaido University*
- *Vanderbilt University*
- *Peking University*
- *University of Massachusetts - Worcester*
- *Hebei Normal University*
- *CAM-SU Genomic Resource Center*
- *NIBS, Beijing*
- *Huazhong University of Science and Technology*
- *University of Nevada-Reno*

SCHEDULE

Day 0: Jul. 31, Sunday

Registration

Pick up by volunteer

Dinner

Assembly point

Campus tour

Day 1: Aug. 1, Monday

Opening remark

Professor, CAM-SU

L1. Introduction of Chronobiology

Professor, University of Massachusetts - Worcester

L2. Ecology and Evolution of Clocks: Past, Present and Future

Professor, Vanderbilt University

Topic: Lumicycle, & SCN Dissection

Professor, Hokkaido University

Professor, NIBS, Beijing

D1. Discussion

Topic: Clocks in the wild.

Professor, University of Wuerzburg

Professor, University of California - Davis

Day 2: Aug. 2, Tuesday

L3. Introduction of Entrainment: Pittendrigh, Daan and Aschoff

Professor, Hokkaido University

L4A. Photoentrainment Pathways in Animals

Professor, Johns Hopkins University

L4B. Photoentrainment Pathways in Plants

Professor, Hebei Normal University

Workshops

D2. Discussion

Topic: Other entrainments (temperature); Entrainment Problems

Professor, Vanderbilt University

Day 3: Aug. 3, Wednesday

L5A: Molecular basis of circadian rhythm generation I: TTFL in *Drosophila*

Professor, University of Nevada - Reno

L5B: Molecular basis of circadian rhythm generation II: TTFL in Mammals

Professor, University of California - Davis

L6. Molecular basis of circadian rhythm generation III: New Perspectives

Professor, Vanderbilt University

Student Poster Session & Sponsors'/Social Hours

Appendix B

Banquet

Day 4: Aug. 4, Thursday

L7. PDF and *Drosophila* clock circuits

Professor, University of Wuerzburg

L8. The suprachiasmatic nucleus: A master circadian pacemaker

Professor, Hokkaido University

Workshops

D3. Discussion

Topic: Clock control of excitability

Professor, Hokkaido University

Professor, Hokkaido University

Day 5: Aug. 5, Friday

L9. Human circadian rhythms, Mutations, and Chronotypes

Professor, Hokkaido University

L10. Circadian Mood Disorders

Professor, Huazhong University Science & Technology

Field trip

PKU-Upenn Sleep Center, Peking University International Hospital

Professor, PKU People's Hospital

Professor, CAM-SU

Young Chinese Pls meet with International Colleagues (CAU)

Pls meet with Chinese Sleep Society

Day 6: Aug. 6, Saturday

L11. Photoperiodism and Seasonality: Animals and Plants

Professor, University of Massachusetts - Worcester

Professor, Hebei Normal University

L12. A Brief History of Behavioral Neurosciences

Professor, IDG/McGovern Institute for Brain Research at PKU

12:00-12:10 Conclusion Remarks

Professor, NIBS, Beijing

CONTACT

ORGANIZERS

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Appendix A

Poster #1:

Kisspeptin displays sex-dependent metabolic and reproductive effects in a seasonal rodent

¹ *Neurobiology of Rhythms Department, Institute of Cellular and Integrative Neurosciences, Strasbourg, France*

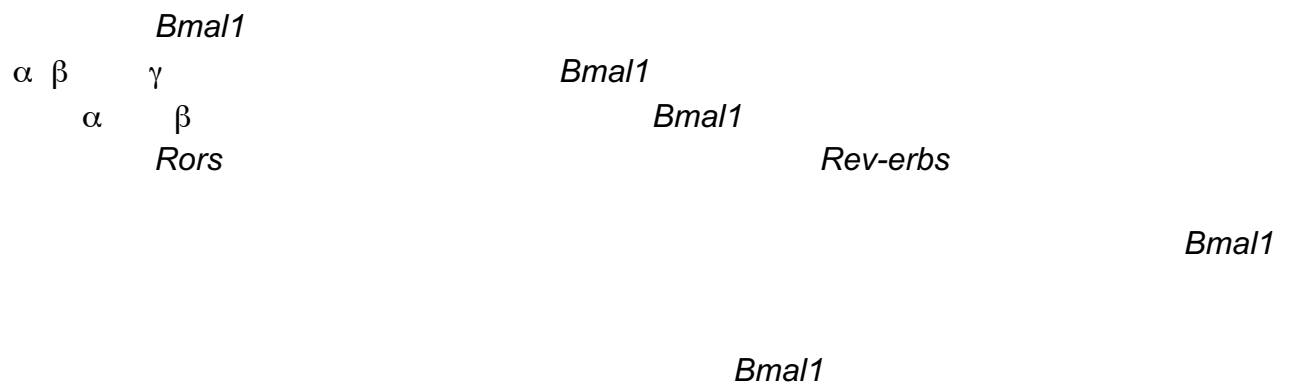
² *Hypothalamic Integration Mechanisms, Netherlands Institute for Neurosciences, Amsterdam, The Netherlands*

Phodopus sungorus

Poster #2:

Post-translational Modification of REV-ERB Nuclear Receptors and Transcriptional Regulation of Bmal1

Dept. Natural System, Faculty of Science and Technology, Kanazawa University, Japan



Poster #4:

**Achilles is a circadian clock controlled gene that regulates innate immune function in
*Drosophila***

¹*Department of Biology, University of Missouri – St. Louis, St. Louis, MO 63121*

²*Department of Chemistry, University of Missouri – St. Louis, St. Louis, MO 63121*

³*Department of Genes - Circuits - Behavior, Max Planck Institute of Neurobiology, Martinsried, Germany
82152*

Drosophila melanogaster Achilles (Achl),

Achilles

Poster #5:

Circadian Oscillators are Intact in both Shoot and Root of Arabidopsis

Hebei Key Laboratory of Molecular and Cellular Biology; Key Laboratory of Molecular and Cellular Biology of Ministry of Education, College of Life Sciences, Hebei Normal University; Hebei Collaboration Innovation Center for Cell Signaling. Shijiazhuang, Hebei, 050024, China

Poster #6:

The size matters: differential roles of FRQ protein isoforms in regulating the *Neurospora* circadian clock

¹*School of Life Sciences, Sun Yat-sen University, Guangzhou, China (Postcode: 510006)*

**Correspondence: guojinhu@mail.sysu.edu.cn*

Poster #7:

Orexin signaling regulates both the hippocampal clock and the expression of Alzheimer's disease-risk genes

¹*College of Life Sciences, Beijing Normal University, Beijing 100875, China.*

²*National Institute of Biological Sciences, Beijing 102206, China.*

³*Department of Gastroenterology, Shanghai First People's Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, 200080, China.*