

V WCC Program Details

<http://www.csbr.org.cn/2019WCC/index.html>

Wednesday April 24, 2019		
9:00-18:00	Registration	
18:00-21:00	Welcome Party	
Thursday April 25, 2019		
08:00-08:15	Opening address (Ying Xu and Till Roenneberg)	
08:15-09:45	Keynote Lectures I Chair: Sato Honma (Hokkaido U)	
08:15-09:00	Keynote Lecture I: Ying-Hui Fu (UCSF)	Molecular Investigation of Human Sleep Behavior
09:00-09:45	Keynote Lecture II: Shuji Akiyama (Jpn Inst. of Mol. Sci.)	Cyanobacterial circadian clock system through the chemistry of rhythm, structure, and evolutionary diversity
09:45-10:00	Coffee Break	
10:00-11:30	Keynote Lectures II Chair: Eric Zhang (Nat'l. Inst. Biol. Sci., Beijing)	
10:00-10:45	Keynote Lecture III: Amita Sehgal (U Pennsylvania)	Using a small animal model to understand how and why we sleep
10:45-11:30	Keynote Lecture IV: Charlotte Helfrich-Forster (U Würzburg)	The neuropeptide "Pigment-Dispersing Factor" in the circadian clock of fruit flies and other insects
11:30-13:30	Lunch Box and Posters	
13:30-15:30	Symposium 1 – Mechanisms Underlying Sleep Controls Co-Chairs: Hiroki Ueda (U Tokyo); Qinghua Liu (Nat'l. Inst. Biol. Sci., Beijing)	
13:30-14:00	Hiroki Ueda (U Tokyo, Japan)	Organism-level Systems Biology by Next-generation Genetics and Whole-organ Cell Profiling
14:00-14:25	Zhi-li Huang (Fudan)	TBD
14:25-14:50	Qinghua Liu (Nat'l. Inst. Biol. Sci., Beijing)	Quantitative phosphoproteomic analysis of the molecular substrates of homeostatic sleep need
14:50-15:15	Chunghun Lim (Ulsan Nat'l. Inst. Sci.&Tec.)	Metabolic control of sleep: amino acid metabolism and adaptive sleep behaviors in Drosophila
15:15-15:30	Kazuhiko Kume (Nagoya City U)	Crosstalk of circadian rhythm and sleep regulation in Drosophila

13:30-15:45	Symposium 2 – Translational Chronobiology Co-Chairs: John Hogenesch (Cinti. Chd's Hosp.); Nicolas Cermakian (McGill U)	
13:30-14:00	John Hogenesch (Cinti. Chd's Hosp.)	Time for circadian medicine
14:00-14:30	Nicolas Cermakian (McGill U)	Effect of night shift work and of bright light treatment on the human central and peripheral clocks, circadian transcriptome and immune circadian rhythms
14:30-15:00	Masao Doi (Kyoto U)	Time-restricted G-protein signaling through Gpr176/Gz/Rgs16 sets the pace of the central clock
15:00-15:15	Ningning Wang (Nanjing Med. U)	Effects of Parathyroidectomy on Nocturnal Non-dipping Heart Rate in Stage 5 Chronic Kidney Disease Patients
15:15-15:30	DingJun Cai (Chendu U of Trad. Chin. Med.)	The SCN phosphoproteome mechanism of acupuncture on circadian rhythm at different time
15:30-15:45	Coffee Break	
15:45-17:45	Symposium 3 – New Insights Into Clock Input: from Retina to SCN Co-Chairs: Erik Herzog (Washington U St. Louis); Sato Honma (Hokkaido U)	
15:45-16:15	Erik Herzog (WUSTL, USA)	Clock cartography: Mapping functional connections in the SCN
16:15-16:45	Rae Silver (Columbia U)	Anisotropy in Physical and Functional SCN Network Topologies
16:45-17:15	Rob Lucas (U Manchester)	What the mammalian eye tells the mammalian SCN
17:15-17:30	Yan Jun (Shanghai Inst. NeuroSci.)	Spatiotemporal single-cell analysis of mammalian circadian pacemaker
17:30-17:45	Daisuke Ono (Nagoya U)	GABA in the suprachiasmatic nucleus refines circadian behavioral rhythms
15:45-17:45	Symposium 4 – Consequences of Circadian Disturbance Co-Chairs: Diego Golombek (U Buenos Aires); Carolina Escobar (Nat'l. Autonomous U of Mexico)	
15:45-16:15	Diego Golombek (U Buenos Aires)	The garden of the forking paths: Metabolic and behavioral alterations in a model of forced circadian desynchronization
16:15-16:45	Carolina Escobar (Nat'l. Autonomous U of Mexico)	Mood Disorders And Metabolic Syndrome In Animal Models For Circadian Disruption
16:45-17:15	Han Wang (Soochow U)	The circadian clock promotes spermatogonial differentiation and fertilization through retinoic acid signaling
17:15-17:30	Ruud M Buijs (Nat'l. Autonomous U of Mexico)	A spinal inflammatory reflex gated by the suprachiasmatic nucleus
17:30-17:45	Ximing Qin (Anhui U)	Comparative Analysis and CRISPR/Cas9 Gene Knockout Reveal that E4BP4 Mediates Lithium Upregulation of Per2 Expression
19:00-19:30	WFC meeting	

Friday April 26, 2019

08:00-10:00	Symposium 5 – Epigenetic/Transcriptional Layers Around the Clock Co-Chairs: Eric Zhang (Nat'l. Inst. Biol. Sci., Beijing); Katja Lamia (Scripps Inst.)	
08:00-08:30	Katja Lamia (Scripps Inst.)	Cryptochromes impact metabolism by promiscuous transcriptional repression
08:30-09:00	Tian Xue (U Sci.&Tec. China)	A Circadian Rhythm-gated Subcortical Visual Circuit Conducts Light Signals at Night to Induce Depressive-like Behaviors
09:00-09:30	Eric Zhang (Nat'l. Inst. Biol. Sci., Beijing)	Chemical perturbation of RUVBL2 regulates the phase of the circadian clock
09:30-09:45	Gang Wu (Cinti. Chd's Hosp.)	Circadian rhythms in human dermis and epidermis
09:45-10:00	Guang-zhong Wang (Chin. Acad. Sci.)	A single factor dominant the behavior of rhythmic genes in mouse tissues
08:00-10:00	Symposium 6 – Molecular Regulators in Controlling Timing Co-Chairs: Yoshitaka Fukada (U Tokyo); Jinhu Guo (Sun Yat'sen U)	
08:00-08:30	Yoshitaka Fukada (U Tokyo)	Roles of Ubiquitination of CRY proteins by FBXL3 and FBXL21
08:30-09:00	David Virshup (Nat'l U Singapore)	CK1 δ/ϵ regulation of the PER2 phosphoswitch
09:00-09:30	ShihKuo Chen (Nat'l. Taiwan U)	The function and projection of ipRGC to the suprachiasmatic nucleus
09:30-09:45	Xiaodong Li (Wuhan U)	Regulation of Pol II pausing is involved in daily gene transcription in the mouse liver
09:45-10:00	Xiao Liu (U Texas Med. CTR)	Molecular basis of circadian period determination and temperature compensation in Neurospora
10:00-10:15	Coffee Break	
10:15-12:15	Symposium 7 – Relevance of Circadian Clock and Cognition and Performance Co-Chairs: Horacio de la Iglesia (UW); Ruifeng Cao (UMN, USA)	
10:15-10:45	Horacio de la Iglesia (U Washington)	Later school start times in adolescents lead to longer sleep and are associated with better academic performance
10:45-11:15	Maria Paz Hidalgo (Clinic. Hosp. of Porto Alegre)	Biológicas Rhythm: a Translational Challenge in Psychiatry
11:15-11:45	Hung-Chun Chang (Shanghai Inst. NeuroSci.)	A BMAL1-ablation macaque model for circadian disorders and associated psychosis
11:45-12:00	Ruifeng Cao (U Minnesota)	Autistic-like behavior and cerebellar pathology in mice lacking the circadian clock gene Bmal1
12:00-12:15	Xin-Ling Wang (Beijing Med. U)	Clock gene per1 is involved in the mechanism underlying the rapid antidepressant action of adenosine A1 receptor agonist

10:15-12:15	Symposium 8 – Interactions between the Clock and Metabolism Co-Chairs: Yi Liu (Fudan); Zheng Sun (Baylor)	
10:15-10:45	Yi Liu (Fudan U)	Role of Circadian Clock in the Regulation of mTORC1
10:45-11:15	Yiguo Wang (Tsinghua U)	The Tight Junction Protein TJP1 Regulates the Feeding-modulated Hepatic Circadian Clock
11:15-11:45	Zheng Sun (Baylor Coll. Med.)	Epigenomic regulation of metabolism and neurocognition by the circadian clock
11:45-12:00	Aya Honma (U Surrey)	Effect of Acute Total Sleep Deprivation on Melatonin and Metabolite rhythms in Females
12:15-13:30	Lunch Box and Posters	
12:30-14:00	AFC meeting (Lunch boxes in meeting room)	
14:00-17:45	Social Activities and Posters	
18:00-20:00	Banquet	
20:00-21:00	CSBR meeting (all CSBR members)	
Saturday April 27, 2019		
08:00-10:00	Symposium 9 – Molecular Architecture of circadian clocks Co-Chairs: Joanna Chiu (UC DAVIS); Yong Zhang (U Nevada)	
08:00-08:30	Joanna Chiu (UC Davis)	Nutrient-sensitive protein O-GlcNAcylation regulates circadian physiology
08:30-08:55	Fang Guo (Zhejiang U)	Dissecting the Connection of Sleep-regulating Circadian Neurons in Flies
08:55-09:20	Donggen Luo (Peking U)	Circuit organization of visual photoentrainment in Drosophila central clock
09:20-09:45	Zhangwu Zhao (China Agri. U)	Sleep and circadian rhythm regulation mediated by juvenile hormone pathway in Drosophila
09:45-10:00	Yong Zhang (U Nevada)	The transcription factor CREBA interacts with the ATX2/TYF complex to regulate circadian behavior
08:00-10:00	Symposium 10 – Effects of Circadian Systems On Sleep and Health Co-Chairs: Phllis Zee (Northwestern U); Fang Han (Peking U Int'l Hosp.)	
08:00-08:30	Phllis Zee (Northwestern U)	Circadian Medicine: Insights from the Clinic
08:30-08:55	Fang Han (Peking U Int'l Hosp.)	TBD
08:55-09:20	Hirromasa Funato (U Tsukuba)	Forward genetics in mice identified novel sleep-regulating genes
09:20-09:45	Jinhu Guo (Sun Yat'sen U)	The circadian rhythms under special environments
09:45-10:00	Ke Lv (China Key lab Space Med.)	Light Exposure Application for Entrainment of Circadian Rhythms and Regulation of Sleep Quality

10:00-10:15	Coffee Break	
10:15-12:15	Symposium 11 – Circuits Wiring the Circadian Clocks Co-Chairs: Luis Larrondo (Ponti. Catho. U of Chile); Xiaodong Xu (Henan U)	
10:15-10:45	Luis Larrondo (Ponti. Catho. U of Chile)	High-Resolution Analysis of Phase Responses and Clock Dynamics Utilizing a Live Canvas and Eidetic Memory
10:45-11:15	Xiaodong Xu (Henan U)	Circadian oscillators control senescence via direct regulation of organelle energy metabolism in Arabidopsis
11:15-11:45	Takato Imazumi (U Washington)	Molecular Basis of Seasonal Flowering in Arabidopsis
11:45-12:00	Mian Zhou (Capital Normal U)	Crosstalk between the circadian clock and plant immunity
12:00-12:15	Lei Wang (Chin. Acad. Sci.)	SPINDLY Fine-tunes Arabidopsis Circadian Period through Modulating PRR5 Protein Abundance in the Nucleus
10:15-12:15	Symposium 12 – The memorial symposium of Serge Daan by Aschoff Honma Foundation Co-Chair: Ken-ichi Honma (Hokkaido University); Ying Xu (CAM-SU)	
10:15-10:45	Ken-ichi Honma (Hokkaido U)	Beyond the two-process model
10:45-11:15	Roelof Hut (U Groningen)	The flexible clock: adaptive responses to maximize survival and reproduction
11:15-11:45	William Schwartz (U Texas)	M and E: Serge Daan's Binary Clock
11:45-12:15	Sheeba Vasu (Jawaharlal Nehru Centre)	Circadian Clock properties and their relationship with intrinsic period or tau
12:15-13:00	Lunch Box	
13:00-14:45	Symposium 13 – Crosstalk Controls of Circadian Clock and Nutrition Co-Chairs: Shigenobu Shibata (Waseda U); Chang Liu (China Pharma. U)	
13:00-13:30	Shigenobu Shibata (Waseda U)	Timing effect of intake of inulin and inulin containing food/ vegetables on the continuous blood glucose level, cecal short chain fatty acids and microbiota in mice and humans
13:30-14:00	Chang Liu (China Pharma. U)	DNA polymerase β R137Q mutant facilitates the development of liver cancer via methylation of clock gene Per1 promoter
14:00-14:15	Juan Du (China Agri. U)	Epigenetic regulator Stuxnet modulates octopamine effect on sleep through a Stuxnet-Polycomb-Oct β 2R cascade
14:15-14:30	Rosa van den Berg (Leiden U Med. Center)	A diurnal rhythm in brown adipose tissue causes rapid clearance and combustion of plasma lipids at waking
14:30-14:45	Weiqi He (Soochow U)	Circadian clock regulates intestinal secretory cell differentiation

13:00-14:45	Symposium 14 – Circadian Misalignment and Diseases Co-Chairs: Debra Skene (U Surrey); Qing-Jun Meng (U Manchester)	
13:00-13:30	Debra Skene (U Surrey)	Circadian Misalignment in Shift Work - Challenges
13:30-14:00	Qing-Jun Meng (U Manchester)	Circadian rhythms in the musculoskeletal system: implications in health and disease
14:00-14:15	Luoying Zhang (Huazhong U Sci.&Tec.)	Integrated Omics in Drosophila Uncover a Circadian Kinome
14:15-14:30	Huatao Chen (NW Agri &Fores. U)	Coordination of circadian clock and androgenic signaling is required for sustaining Elov13 rhythmic expression in mouse liver
14:30-14:45	Mengru Xie (Huazhong U Sci.&Tec.)	Porphyromonas gingivalis accelerates atherosclerosis via circadian dysrhythmia
14:45-15:00	Coffee Break	
15:00-17:00	Symposium 15 – Clocks in Nature: Seasonal and Field Timing Co-Chairs: Vinod Kumar (U Delhi); Takashi Yoshimura (Nagoya U)	
15:00-15:30	Vinod Kumar (U Delhi)	Environmental Cues, Circadian Rhythms and Seasonal Timekeeping in Songbirds
15:30-16:00	Takashi Yoshimura (Nagoya U)	Molecular basis of seasonal changes in behavior
16:00-16:15	He Wenyan (U Munich)	A circadian zip code guide leukocyte homing
16:15-16:30	Sangeeta Rani (U Lucknow)	Circannual rhythm in regulation of annual reproduction in subtropical spotted munia (Lonchura punctulata)
16:30-16:45	Lin Zhang (U Leicester)	Molecular basis of tidal rhythms in an intertidal crustacean Eurydice pulchra
16:45-17:00	Aakansha Sharma (U Delhi)	Molecular correlates of spring and autumn migration phenotypes in latitudinal migrants: Insights from gene expression studies in migratory buntings
15:00-17:00	Symposium 16 – Human Chronobiology - from Genes to Behavior Co-Chairs: Till Roenneberg (Munich U); Elizabeth Klerman (Harvard U)	
15:00-15:30	Till Roenneberg (Munich U)	The power of actimetry in circadian and sleep research
15:30-16:00	Elizabeth B.Klerman (Brigham&Women Hosp., Harvard U)	Applying mathematical modeling of the effects of light on the human circadian pacemaker to interpretation of experimental results
16:00-16:30	Richa Saxena (Mass. Gen. Hosp., Harvard U)	Chronotype in Health and Disease: Insights from population-scale genetics
16:30-16:45	Gaggioni G (U Liege)	EEG neuronal response complexity circadian rhythm in young and older individuals

16:45-17:00	Yanyun Ding (Yijishan Hosp. Wannan Med. Coll.)	Combined effects of melatonin and valsartan in the treatment of spontaneous hypertension rats with non-dipping blood pressure patten via circadian mechanism
17:00-17:45	Keynote Lecture III Chair: Luoying Zhang (Huazhong U Sci.&Tec.)	
17:00-17:45	Keynote Lecture V: Minmin Luo (Chin. Inst. Brain Res. /Nat'l. Inst. Biol. Sci., Beijing)	Reward processing by the Dorsal Raphe
17:45-18:00	Awards: By Ken-ichi Honma (Hokkaido U), Xiang Gao (Nanjing U) Closing Remarks: By Ken-ichi Honma (Hokkaido U)	
Sunday April 28, 2019		
8:30-12:00	Circadian Clock training Course (Soochow U Campus)	
	Lecturers: Jinhu Guo & Gang Wu	