SESSION LECTURE

No. 53

Frontiers in Sleep Studies

Room: 305

Co-Chairs: Shumin Duan

Patrick M. Fuller

Day 3 October 29th (Monday) 8:30 – 12:00		
Time	**Speaker**	**Title**
8:30-9:00	**Zhili Huang** *Fudan University, China*	Roles of the Basal Ganglia in Sleep-wake Regulation with Focus on Adenosine A2A and Dopamine D1 Receptors
9:00-9:30	**Patrick M. Fuller** *Harvard Medical School, USA*	The circuit and synaptic basis of arousal and sleep
9:30-10:00	**Fang Han** *Peking University, China*	Immunologic and Genetic Aspect of Narcolepsy Related with H1N1 Infection
10:00-10:30	**Tea Break**	
10:30-11:00	**Antoine Adamantidis** *University of Bern, Switzerland*	Dissection of sleep circuits and functions in the brain
11:00-11:30	**Shumin Duan** *Zhejiang University, China*	Identified local neuronal circuits bi-directionally regulate sleep-wake behavior
11:30-12:00	**Luis de Lecea** *Stanford University, USA*	To sleep or not to sleep: How the brain decides to wake us up

Shumin Duan

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Professor and the dean of Zhejiang University School of Medicine. He is an academician of Chinese Academy of Sciences and a member of the Academy of Sciences for the Developing World (TWAS). His research interests include the function and the mechanisms of neuron-glia interactions in health and disease and neural circuit mechanisms of brain functions.

Patrick M. Fuller

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Prof. Fuller works in the Department of Neurology at Harvard Medical School and Beth Israel Deaconess Medical Center. His experiment work is focused on identifying and characterizing the neuronal circuitry underlying behavioral state control, including key circuit nodes, their transmitters and their targets.

Zhili Huang

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Dr. Huang research on the mechanisms of sleep-wake regulation with focus on the hypothalamus and basal ganglia from gene to behaviors. He is a Principal Investigator of State Key Laboratory of Medical Neurobiology, and the Chairman of Department of Pharmacology, Fudan University, Shanghai, China.

Luis de Lecea

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Dr. de Lecea discovered several neurotransmitters critical for the regulation of sleep and wakefulness, including the Hypo cretins (orexins). His work is based on the neuronal underpinnings of sleep/wake control and the construct of arousal and hyperarousal. Dr. de Lecea is one of the most highly cited basic sleep researchers and has received numerous awards including the Outstanding Scientific Achievement Award from the Sleep Research Society.

Fang Han

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Fang Han is currently a professor and the director of sleep center in Peking University. He is the president of Chinese Sleep Research Society, and presidentelect of ASSM. Dr. Han serves as an associate editor of Sleep and Breathing. He has published over 160 research paper in peer-reviewed journals. Dr. Han's major research interest includes the respiratory control, the genetic study of narcolepsy.

Antoine Adamantidis

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Associate Professor in the Dept of Neurology at the University of Bern and holds a joined appointment in the Dept of Biomedical Research. He is the Director for the Zentrum For Experimentale Neurologie (ZEN labs) at the Inselspital Universty Hospital Bern. Dr A. Adamantidis's research objectives aim at investigating the wiring, firing dynamics and plasticity of the neural circuits regulating brain states in normal and pathological states using in vitro and in vivo optogenetics combined to genetics and electophysiological methods.