SESSION LECTURE

No. 15

Multiscale Brainnetome Atlas

Room: 311B

Co-Chairs: Tianzi Jiang

Claus C. Hilgetag

Day 1 October 27th (Saturday) 13:30 – 17:00		
Time	**Speaker**	**Title**
13:30-14:00	**Tianzi Jiang** *Institute of Automation, CAS, China*	The Human Brainnetome Atlas and its Applications in Brain Diseases
14:00-14:30	**Xiaoming Li** *Zhejiang University, China*	Thalamic reticular nucleus and flight
14:30-15:00	**Simon B. Eickhoff** *Research Centre Jülich & Heinrich-Heine University of Düsseldorf, Germany*	Bridging the gap: From large-scale aggregation to individual prediction
15:00-15:15	**Tea Break**	
15:15-15:45	**Claus C. Hilgetag** *Hamburg University, Germany*	An architectonic type principle integrates cerebral cortical architecture and connectivity
15:45-16:15	**Wei Gao** *University of California, Los angeles, USA*	Development of Human Brain Functional Connectome during Early Childhood
16:15-16:45	**Pankaj Sah** *University of Queensland, Australia*	Partial reinforcement and learning
16:45-17:15	**Anna Wang Roe** *Zhejiang University, China*	Functionally specific optogenetic modulation in primate visual cortex

Tianzi Jiang

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Tianzi Jiang is Professor and Director of Beijing Key Laboratory of Brainnetome, Director of the Brainnetome Center, the Institute of Automation of the Chinese Academy of Sciences, the core member of CAS Center for Excellence in Brain Science and Intelligence Technology, and Professor of Queensland Brain Institute, University of Queensland. His research interests include neuroimaging, brainnetome, imaging genetics, and their clinical applications in brain disorders.

Xiaoming Li

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Dr. Xiao-Ming Li a professor of Neuroscience at Zhejiang University School of Medicine. His main research interest is to understand the mechanisms underlying the formation, maintenance and regulation of synapses and neural circuits, in identifying targets to develop therapeutic strategies for treating neuropsychiatric disorders.

Simon B. Eickhoff

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Dr. Simon B. Eickhoff is Director Institute for Neuroscience and Medicine (INM-7) Juelich and Institute of System Neuroscience Duesseldorf, Germany. His main research interest is the development and application of novel analysis tools and approaches for large-scale, multi-modal analysis of brain structure, function and connectivity as well as machine-learning for clinical applications.

Anna Wang Roe

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Dr. Roe is the Director of Zhejiang University Interdisciplinary Institute of Neuroscience and Technology(ZIINT). She is known for her studies in visual and somatosensory processing in primate cerebral cortex. She is currently Professor at Oregon Health & Science University. She was elected State Specially Recruited Experts of One Thousand Foreign Experts Program in 2016, and AAAS Fellow in 2016.

Claus C. Hilgetag

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C laus C. Hilgetag, PhD is a Professor and Director of the Institute of Computational Neuroscience at the University Medical Center Eppendorf of Hamburg University, Germany. He is also an Adjunct Professor at the Department of Health Sciences of Boston University, USA. Hilgetag is one of the pioneers of brain network research and for more than 20 years has investigated the structural and functional organization of cortical connectivity. Hilgetag is a Deputy (Methods) Editor at PLOS Computational Biology, a Senior Editor at Network Neuroscience, and a member of the Academy of Sciences in Hamburg.

Wei Gao

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Dr. Gao is an Associate Professor at the Department of Medicine, UCLA and Director of Neuroimaging Research at the Biomedical Imaging Research Institute, Cedars-Sinai Medical Center. His research focuses on neuroimaging studies of normal brain development and risk-related alterations associated with prenatal drug exposure, risk genes, maternal obesity, poverty, and others. His research combines advanced neuroimaging, detailed neurobehavioral assessment, and extensive environmental/genetic monitoring.

Pankaj Sah

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Professor Pankaj Sah is Director of the Queensland Brain Institute (QBI) at The University of Queensland (UQ). He is renowned for his work in understanding the neural circuitry of the amygdala, an area of the brain that plays a central role in learning and memory formation. Dysfunction of the amygdala leads to a host of anxiety-related disorders. His laboratory uses a combination of molecular tools, electrophysiology, anatomical reconstruction, calcium imaging and behavioural studies to examine the electrophysiological signatures of different brain regions and their impact on disease.