



# 中国神经科学学会

## The Chinese Society for Neuroscience

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### 第四届脑功能基因组学国际学术研讨会

# 第四届脑功能基因组学国际学术研讨会

## The 4th International Symposium on Brain Functional Genomics

华东师范大学 脑功能基因组学研究所  
Shanghai Institute of Brain Functional Genomics, ECNU

会议时间: 2006年10月31日 8:00-17:00 (Oct 31st, 2006)

会议地点: 华东师范大学逸夫楼一楼报告厅 (Yifu Building)

### Speakers

### Titles

Dr. Carol A. Barnes [President of the Society for Neuroscience (2004-2005)]

Neurobiological changes in the aged hippocampus: implications for age-related deficits in spatial cognition

Dr. Xiaohua Cao [Associate Professor, Shanghai Institute of Brain Functional Genomics]

Genetic enhancement of memory in transgenic rats

Dr. John O'Keefe [Fellow of the Royal Society, University College London]

Long-term plasticity of place fields

Dr. Edvard Moser [Director, Centre for the Biology of Memory, Norwegian University of Science and Technology, Norway]

Hippocampal remapping and ensemble dynamics in entorhinal cortex

Dr. Joe Z. Tsien [Professor and Director Center of Systems Neurobiology, Boston Univ.]

Neural encoding and organization of memory in the hippocampus

Dr. Guifen Chen [Shanghai Institute of Brain Functional Genomics]

Direct control of machine by real-time memory codes through brain-computer interface

Dr. Longnian Lin [Associate Professor, Shanghai Institute of Brain Functional Genomics]

Neural representation of abstract concept at level of the hippocampus

Dr. Robert Desimone [Member of Academy of Sciences, Professor and Director of McGovern Brain Institute, MIT]

The role of neural synchrony in selective attention

Dr. Mary Balthazart [Professor and Co-Director of Center for Brain and Cognition, University of Geneva]

Guided development of a neural circuit for spatial navigation

Dr. May-Britt Moser [Professor and Co-director of Centre for the Biology of Memory, Norwegian University of Science and Technology]

Grid cells and mechanisms for spatial navigation

Dr. Gyorgy Buzsaki [Board of Governors Professor and director of Center for Molecular and Behavioral Neuroscience, Rutgers University]

Oscillatory organization of cell assemblies

Dr. Ann Greybiel [Member of Academy of Sciences, Professor of Brain and Cognitive Science, MIT]

Building Neural Representations of Habits

Conference Coordinator: Yilin Lou 娄裔琳 (华东师大脑功能基因组学研究所)

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Sponsors (赞助单位): Shanghai Eureka Biotech Co; ECNU; Plexon Inc etc.

International Symposium on Brain Functional Genomics  
Program (Oct 31st, 2006)

8:20-8:30 Opening Remark

ECNU President Yu, Institute Director Joe Z. Tsien

8:30-9:05 Neurobiological changes in the aged hippocampus: implications for age-related deficits in spatial cognition.

Dr. Carol A. Barnes [President of the Society for Neuroscience (2004-2005)]

9:05-9:25 Genetic enhancement of memory in transgenic rats.

Dr. Xiaohua Cao [Associate Professor, Institute of Brain Functional Genomics]

9:25-10:00 Hippocampal place cells simultaneously represent locations, events, and global environments by different aspects of their firing patterns

Dr. John M. O'Keefe [Fellow of the Royal Society, University College London]

10:00-10:35 Entorhinal grid cells and hippocampal pattern separation

Dr. Edvard Moser [Director, Centre for the Biology of Memory, Norwegian University of Science and Technology, Norway]

10:35-10:45 Coffee Break

10:45-11:20 Neural encoding and organization of memory in the hippocampus Dr. Joe Z. Tsien [Professor and Director Center of Systems Neurobiology, Boston Univ.]

11:20-11:40, Direct control of machine by real-time memory codes through brain-computer interface.

Dr. Guifen Chen [Shanghai Institute of Brain Functional Genomics]

11:40-12:00 Neural representation of abstract concept at level of the hippocampus

Dr. Longnian Lin [Associate Professor, Shanghai Institute of Brain Functional Genomics]

12:00-13:30 Lunch Break

13:30-14:05 The role of neural synchrony in selective attention

Dr. Robert Desimone [Member of Academy of Sciences (USA), Professor and Director of McGovern Brain Institute, MIT]

14:05-14:40 Spatial representation in entorhinal grid cells

Dr. May-Britt Moser [Professor and Co-director of Centre for the Biology of Memory, Norwegian University of Science and Technology]

14:40-14:45 Coffee Break

14:45-15:20 Oscillatory organization of cell assemblies

Dr. Gyorgy Buzsaki [Board of Governors Professor and director of Center for Molecular and Behavioral Neuroscience, Rutgers University]

15:20-15:55 Building Neural Representations of Habits

Dr. Ann Greybiel [Member of Academy of Sciences, Professor of Brain and Cognitive Science, MIT]

15:55-16:00 Concluding remark by Dr. Joe Z. Tsien

16:00-16:10 Group picture

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