

Colloquia and Symposia Sponsored by ION (2018.01-2018.12)

Date	Name	Affiliations	Title
2018-1-8	Jianing Yu	Postdoctoral Associate, HHMI Janelia Research Campus, USA	<i>Behavior-relevant inhibition and its role in circuit computation during active somatosensation.</i>
2018-1-12	Fei Zhuge	Ningbo Institute of Industrial Technology, Chinese Academy of Sciences	<i>用于人工智能的忆阻型神经形态芯片</i>
2018-1-22	Andrew Holmes	Chief, Laboratory of Behavioral and Genomic Neuroscience, National Institute on Alcohol Abuse and Alcoholism, NIH, USA	<i>The Ages of Anxiety: delineating neural circuits to develop new drugs.</i>
2018-2-9	Marianne Schmid Mast	Professor, Organizational Behavior at HEC, University of Lausanne, Switzerland	<i>Social interactions in virtual reality: research and training.</i>
2018-3-15	Gidon Felsen	Associate Professor, Department of Physiology and Biophysics, University of Colorado School of Medicine, USA	<i>Midbrain circuits for decision making.</i>
2018-4-3	Oxana Eschenko	Group Leader, Max Planck Institute for Biological Cybernetics, Germany	<i>Noradrenergic modulation of forebrain: from sensory processing to memory consolidation.</i>
2018-4-3	Nikos Logothetis	Director and Professor, Max Planck Institute for Biological Cybernetics, Germany	<i>Concurrent physiological multisite-recordings, stimulation & brain imaging: mapping dynamic connectivity in epochs of synaptic and system consolidation</i>
2018-4-11	Lu Yang Wang	Professor & Director, The BRAIN Platform, Department of Physiology, University of Toronto, Canada	<i>Presynaptic mechanisms underlying synaptic heterogeneity and brain disorders.</i>
2018-4-11	Yingxi Lin	Associate Professor, MIT, USA	<i>Transcribing Memories: Encoding of Contextual Memories by Transcriptionally-defined Active Neuronal Ensembles.</i>
2018-4-11	Zhuohao He	Senior Research Investigator, University of Pennsylvania, USA	<i>Study neurodegenerative diseases from the perspective of misfolding proteins.</i>
2018-4-11	Zheng Ye	Principal Investigator, Institute of Psychology, Chinese Academy of Sciences	<i>Understanding impulsivity and cognitive inflexibility in Parkinson's disease.</i>

2018-4-16	Rudolf Jaenisch	Professor of Biology, Massachusetts Institute of Technology, USA	<i>Epigenetic regulation in development aging and disease states.</i>
2018-4-17	April Pawluk	Scientific Editor, Cell, USA.	<i>Publishing at Cell Press</i>
2018-4-24	Changliang Liu	Postdoctoral Fellow, Department of Neurobiology, Harvard Medical School, USA	<i>Seeking Hidden Architecture in Dopamine Signaling.</i>
2018-5-21	Yulong Li	Principle Investigator, School of Life sciences, Peking University, Beijing, China	<i>Constructing new genetically-encoded dopamine sensors to spy on neuromodulation.</i>
2018-6-1	Sir Colin Blakemore	Professor of Neuroscience & Philosophy, School of Advanced Study, University of London & Emeritus Professor of Neuroscience, University of Oxford, UK	<i>The plastic brain.</i>
2018-6-4	Juan Lerma	Professor, Instituto de Neurociencias CSIC-UMH. San Juan de Alicante, Spain. Editor-in-Chief of Neuroscience.	<i>Dosage matters: kainate receptor protein levels and mental disease.</i>
2018-6-5	John Byrne	Professor and June and Virgil Waggoner Chair, Department of Neurobiology and Anatomy, McGovern Medical School at The University of Texas Health Science Center at Houston, USA	<i>Pharmacological approaches and computer-assisted optimization of training schedules to enhance memory mechanisms.</i>
2018-6-14	Fu Xiang-Dong	Professor, Dept. of Cellular and Molecular Medicine, University of California, USA	<i>Therapeutic reversal of parkinson's disease.</i>
2018-6-27	Zhen Liu	Postdoctoral Research Fellow, Institute of Neuroscience, Chinese Academy of Sciences	<i>Gene-modified monkey model and somatic cell nuclear transfer.</i>
2018-6-29	Dmitri Mitya Chklovskii	Group Leader for Neuroscience, Flatiron Institute, Simons Foundation, USA	<i>Neural computation as a transformation of similarity.</i>
2018-6-29	Jun Ding	Assistant Professor, Stanford Institute for Neurosciences (SNI), Stanford University School of Medicine, USA	<i>Dendritic non-linear integration and plasticity in striatal spiny neurons during motor learning.</i>
2018-7-9	Li Zhang	Professor, Physiology & Neuroscience, University of Southern California, USA	<i>Exploring brain circuits for auditory behaviors.</i>
2018-7-10	JORGE V. JOSÉ	James H. Rudy Distinguished Professor, Indiana University,	<i>Motion biomarkers in neurodevelopment: independently confirmed by clinical</i>

		USA	<i>diagnoses.</i>
2018-7-26	Xinle Wu	Research Director, External Innovation/Business Development, Eli Lilly, USA	<i>The role of GDF15 and its receptor GFRAL in the regulation of food intake and body weight.</i>
2018-8-6	Richard Andersen	James G. Boswell Professor of Neuroscience and Director of the T&C Chen Brain-Machine Interface Center, California Institute of Technology, USA	<i>Human-machine interfaces for recording intentions and stimulating sensations.</i>
2018-8-6	Michael Roukes	Frank J. Roshek Professor of Physics, Applied Physics, and Bioengineering, California Institute of Technology, USA	<i>Next-gen neurotechnology for dense interrogation of brain circuit activity.</i>
2018-8-13	Gong Chen	Pennsylvania State University, USA	<i>脑内原位神经再生与修复</i>
2018-9-4	徐文东	上海华山医院副院长	<i>改变外周通路诱导大脑可塑</i>
2018-9-5	Marc Tessier-Lavigne	President, Bing Presidential Professor, and Professor of Biology, Stanford University, USA	<i>Sculpting neuronal connections: The logic and mechanisms of axon guidance and pruning.</i>
2018-9-19	Helen Mayberg	Director of the Center for Advanced Circuit Therapeutics, the Mount Sinai Professor in Neurotherapeutics at the Icahn School of Medicine, USA	<i>Rethinking Depression and its Treatment: Perspectives from Studies of Deep Brain Stimulation.</i>
2018-9-21	Xiaoke Chen	Assistant Professor, Stanford University, USA	<i>Thalamic control of learning and memory.</i>
2018-9-21	Ehud Ahissar	Professor, Department of Neurobiology, Weizmann Institute of Science, Israel	<i>Closed-loop perception in humans, rodents and robots.</i>
2018-10-1	Tzumin Lee	Group Leader, Janelia Research Campus, Howard Hughes Medical Institute, USA	<i>Tracking Brain Development.</i>
2018-10-10	Keiji Tanaka	Team Leader and Head, Cognitive Brain Mapping Laboratory, RIKEN Center for Brain Science, Japan	<i>Dissection of cognitive control functions (into more elementary components) by using functional differentiation as tool.</i>
2018-10-15	Alison Barth	Professor, Biological Sciences and Center for the Neural Basis of Cognition, Carnegie Mellon University, USA	<i>Sensory learning drives sequential layer and synapse-specific plasticity in the neocortex.</i>
2018-10-25	Georg Northoff	Professor, University of Ottawa, Canada	<i>What the brain's spontaneous activity can tell us about behavior and our mental states.</i>

2018-10-26	Samuel Pfaff	Professor, The Salk Institute for Biological Studies, University of California, San Diego, USA	<i>Characterization of the cellular and molecular pathways that underlie spinal motor circuit function.</i>
2018-11-20	Mitchell Sutter	Professor, Center for Neuroscience, University of California, USA	<i>Auditory cortex is more than a simple static sound processor.</i>
2018-11-21	罗金才	北京大学分子医学研究所教授	<i>淋巴管网络在肿瘤进出脑组织过程中的作用</i>
2018-11-21	Yoshihiro Kubo	Professor, Division of Biophysics and Neurobiology, National Institute for Physiological Sciences, Japan	<i>Activation mechanisms of GIRK channel by an antiparasitic drug, ivermectin</i>
2018-12-3	Takuya Hayashi	Team Leader, Laboratory for Brain Connectomics Imaging RIKEN Center for Biosystems Dynamics Research, Kobe, Japan	<i>Towards primate brain connectome with non-invasive magnetic resonance imaging.</i>
2018-12-3	Pierre Savatier	Head of Pluripotent stem cells in mammals group, Stem Cell and Brain Research Institute, France	<i>Naive pluripotency and chimeric competency in human, macaque and rabbit.</i>
2018-12-12	Mingshan Xue	Assistant Professor, Department of Neuroscience, Baylor College of Medicine, USA	<i>Mouse models of epileptic encephalopathy.</i>
2018-12-14	Xiao-Bing Gao	Associate Professor, Department of Comparative Medicine, Yale University School of Medicine, USA	<i>The deficiency of hypocretin system and hypoarousal in obesity.</i>
2018-12-18	Xin Sun	Professor, Department of Pediatrics, University of California, USA	<i>Consider the lung as a sensory organ.</i>

ION PI Seminars (2018.01-2018.12)

Date	Name	Title
2018-2-2	Shi-Qing Cai	<i>Ion channels, neurotransmitters and healthy aging</i>
2018-3-9	Yan-Gang Sun	<i>The six year itch</i>
2018-3-30	Cheng-Yu Li	<i>Dynamical neural circuitry underlying working memory</i>
2018-4-26	Le-Ping Cheng	<i>Direct reprogramming of astrocytes into neurons and neuronal subtypes</i>
2018-5-25	Jiu-Lin Du	<i>Mapping whole-brain neural connectivities of larval zebrafish</i>
2018-8-30	Jin Xu	<i>Pursuit of the holy grail in neurodegenerative diseases</i>
2018-9-28	Yong Gu	<i>多感知觉信息的整合与决策</i>
2018-11-29	Zheng Wang	<i>脑成像的现状与未来</i>



ION-KOKI Joint-Symposium on Neuroscience

Institute of Neuroscience, Chinese Academy of Sciences
Institute of Experimental Medicine, Hungarian Academy of Sciences



Date: March 22nd to March 23rd, 2018

Place: Rm. A405, ION Building, 320 Yue Yang Road, Shanghai 200031, China

Thursday, March 22nd, 2018

Morning Session Chair: Dr. Ninglong Xu

9:00	Mu-Ming Poo	<i>Opening Remark</i>
9:05	Tamás Freund	<i>Brief Introduction of Institute of Experimental Medicine</i>
9:20	Mu-Ming Poo	<i>Brief Introduction of Institute of Neuroscience and China Brain Project.</i>
9:50	Norbert Hájos	<i>Subcortical control of fear learning via amygdala interneuron networks</i>
10:20		Break
10:40	Cheng-Yu Li	<i>Dynamic neural circuitry underlying olfactory working memory</i>
11:10	Hai-Shan Yao	<i>Neural circuit mechanism of visually guided behavior: role of frontal cortex in visual associative learning and flexible decision making</i>

Afternoon Session Chair: Dr. Dóra Zelena

14:00	Tamás Freund	<i>Keynote Lecture: The reciprocal GABAergic septohippocampal projection: connectivity and role in theta generation</i>
15:00	Balázs Hangya	<i>Tonic and phasic properties of central cholinergic neurons in sensory detection</i>
15:30		Break
15:50	Yang Yang	<i>Synaptic remodeling associated with fear memory</i>
16:20	Balázs Rózsa	<i>Fast 3D imaging and re-activation of neuronal networks, dendrites, and spines in several cubic millimeter volumes in behaving animals to understand visual representation</i>
16:50	Ning-Long Xu	<i>In vivo two-photon imaging in behaving mice reveals population coding of perceptual categorization</i>

Friday, March 23rd, 2018

Morning Session Chair: Dr. Norbert Hájos

9:00	Chun Xu	<i>Distinct hippocampal pathways in contextual regulation of fear</i>
9:30	Dóra Zelena	<i>Raphe nuclei and social behavior</i>
10:00	Yan-Gang Sun	<i>Descending control of itch signal processing</i>
10:30		Break
10:50	Eva Mikics	<i>Cognitive vulnerability in posttraumatic stress disorder – impaired integration of contextual information and top-down control in the bed nucleus of stria terminalis.</i>
11:20	He Cui	<i>Dynamic sensorimotor control and brain-machine interface</i>

第34届神经科学前沿研讨会 The 34th International Forum on Frontiers of Neuroscience

2018年4月13日（星期五）下午14:30-17:30
上海市岳阳路320号，生命科学实验楼A405报告厅
主持人：蒲慕明

- 14:30-15:30 | **Yi Zhang, Ph.D.**
Professor, Harvard Medical School, USA
Identifying and overcoming epigenetic barriers for somatic cell nuclear transfer (SCNT) reprogramming and more
- 15:30-16:30 | **Carla Green, Ph.D.**
Professor, University of Texas Southwestern Medical Center, USA
Transcriptional and post-transcriptional regulation of metabolism by the circadian clock
- 16:30-17:30 | **Joseph Takahashi, Ph.D.**
Professor, University of Texas Southwestern Medical Center, USA
Molecular architecture of the circadian clock in mammals



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ION–MPIBC Joint Symposium on Neuroscience

Institute of Neuroscience, Chinese Academy of Science
Max Planck Institute for Biological Cybernetics, Germany

Date: July 30th to July 31st, 2018

Place: Lecture Hall A405, Biological Research Building, 320 Yue Yang Road, Shanghai 200031

Monday, July 30th, 2018

9:00	Mu-Ming Poo	<i>Welcome and ION introduction</i>
Session I Perception and Awareness Chair: Liping Wang		
9:30	Yong Gu	<i>Multisensory decision-making for visual-vestibular self-motion</i>
10:00	Coffee Break	
10:15	Henry Evrard	<i>Neuroanatomical and functional organization of the primate insula</i>
10:45	Wei Wang	<i>Cortical mechanisms underlying integration of local visual cues to form global representations</i>
11:15	Tianming Yang	<i>The prefrontal circuitry for value-based decision making</i>
11:45	Group Photo	
Session I Perception and Awareness Chair: Yong Gu		
14:00	Vishal Kapoor	<i>Electrophysiological investigation of the prefrontal cortex during a no-report binocular rivalry paradigm</i>
14:30	Le Chang	<i>A compact code for facial identity in the primate brain</i>
15:00	Neng Gong	<i>Studying higher brain functions using non-human primates</i>
15:30	Coffee Break	
15:45	Abhilash Dwarakanath	<i>The neural correlates and mechanisms of visual consciousness</i>
16:15	Liping Wang	<i>The sense of arm location and bodily self in humans and macaque monkeys</i>

Tuesday, July 31st, 2018

Session I Perception and Awareness Chair: Zheng Wang		
9:00	Chengyu Li	<i>Critical role of prefrontal to insular input in working memory and underlying neuronal dynamics</i>
9:30	Elke Weiler	<i>Investigating olfaction in higher species</i>
10:00	Coffee Break	
10:15	Ninglong Xu	<i>Neuronal circuit mechanisms for stimulus categorization and perceptual decision-making</i>
10:45	He Cui	<i>Dynamic sensorimotor control and brain-machine interface</i>
11:15	Qiang Sun	<i>Establishment of non-human primate animal models</i>
Session II Neuroimaging and Brain Disorders Chair: Chengyu Li		
14:00	Hamid R. Noori	<i>Multiscale state-transitions in dialog of brain and behavior in neuropsychiatric diseases</i>
14:30	Zheng Wang	<i>Cross-species machine learning boosts MRI-based diagnosis of neuropsychiatric disorders</i>
15:00	Goran Angelovski	<i>Novel tools in molecular fMRI</i>
15:30	Coffee Break	
15:45	Zhifeng Liang	<i>Neural basis of MRI based structural and functional connectivity</i>
16:15	Ekaterina Mitricheva	<i>Characterization of overlapping neurochemical, physiological and functional brain networks using modified NET-fMRI</i>

第35届神经科学前沿研讨会

The 35th International Forum on Frontiers of Neuroscience

2018年9月17日（星期一）上午8:30-12:00
上海市岳阳路320号，生命科学实验楼A405报告厅
主持人：于翔 研究员

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|-------------|---|
| 8:30-9:20 | Richard Tsien, Ph.D.
Professor, NYU Langone Medical Center, USA
<i>Autism-related genes critical for neuronal signaling and synaptic plasticity</i> |
| 9:20-10:10 | Eunjoon Kim, Ph.D.
Professor, Korea Advanced Institute of Science and Technology, Korea
<i>NMDA receptor dysfunction and sexual dimorphism in mouse models of autism</i> |
| 10:20-11:10 | Toru Takumi, M.D., Ph.D.
Senior Team Leader, RIKEN Brain Science Institute, Japan
<i>Copy number variation model of autism</i> |
| 11:10-12:00 | Larry Young, Ph.D.
Professor, Emory University School of Medicine, USA
<i>The neurobiology of the pair bond</i> |



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第36届神经科学前沿研讨会

The 36th International Forum on Frontiers of Neuroscience

Date: November 13th to November 14th, 2018

Place: Lecture Hall A405, Biological Research Building, 320 Yue Yang Road, Shanghai

Host PI: Prof. Mu-ming Poo

November 13th, Tuesday

9:30 am

Molecular fMRI with bioresponsive probes

Goran Angelovski, PhD

Group Leader, Max Planck Institute for Biological Cybernetics, Germany

10:30 am

Investigation of system-level mechanisms underlying cognitive functions: from sensory processing to learning and memory consolidation

Oxana Eschenko, PhD

Senior Research Scientist, Group Leader
Max Planck Institute for Biological Cybernetics, Germany

1:30 pm

Key role of loss of corticostriatal mGluR2 in the pathophysiology of alcoholism

Rainer Spanagel, PhD

Scientific Director of the Institute of Psychopharmacology, Germany

2:30 pm

Multimodal characterization of disease onset and dynamics in primates using intensive longitudinal measurements

Hamid Noori, PhD

Head of Independent Research Group, Max Planck Institute for Biological Cybernetics, Germany

3:30 pm

Elucidating the cellular basis of functional brain activity

Ekaterina Mitricheva, PhD

Research scientist, Max Planck Institute for Biological Cybernetics, Germany

November 14th, Wednesday

9:30 am

Neural correlates of conscious visual perception in the primate brain

Vishal Kapoor, PhD

Postdoctoral Fellow, Max Planck Institute for Biological Cybernetics, Germany

10:30 am

Olfaction - from molecule to behavior and consciousness

Elke Weiler, PhD

Senior Scientist, Max Planck Institute for Biological Cybernetics, Germany

1:30 pm

Geometric learning, behavior surveillance, and multi-modal time series signal detection

Farzad Fathizadeh, PhD

Research Fellow, Marie Curie Cofund Fellowship, Swansea University, UK; Guest Research Scientist, Max Planck Institute for Biological Cybernetics, Germany

2:30 pm

Body-Mind Interface in the Primate Cortex

Henry Eyrard, PhD

Group Leader, Max Planck Institute for Biological Cybernetics, Germany; Group Leader, Werner Reichardt Center for Integrative Neuroscience, Germany

3:30 pm

Neural mechanism of visual awareness - binocular rivalry, backward masking and beyond

Masataka Watanabe, PhD

Visiting Researcher, Max Planck Institute for Biological Cybernetics, Germany; Associate Professor, University of Tokyo, School of Engineering, Japan



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