

Colloquia and Symposia at ION (2012.01-2012.12)

Date	Name	Affiliation	Title
2012.02.03	Feng-Quan Zhou	Johns Hopkins University School of Medicine, U.S.A	<i>Cytoskeletal UCLMediSintropol of U.S.A.</i>

2012.06.26	Tzumin Lee	University of Maryland, U.S.A.	<i>Origin of neuron diversity</i>
2012.07.06	Zuoshang Xu	University of Massachusetts Medical School, U.S.A.	<i>Role of TDP-43 in ALS and FTD: a gain or a loss of function?</i>
2012.07.12	Qi Wang	Georgia Institute of Technology/Emory University, U.S.A.	<i>Reading and Writing the Neural Code: Initial Steps toward Artificial Sensory Percepts</i>
2012.08.01	Ke-Ping Hu	Research Center for Pharmacology & Toxicology Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences, China	<i>Autism Spectrum Disorder Rett Syndrome Protein MeCP2 Function Is Regulated by Phosphorylation</i>
2012.08.20	Lawrence L. Wald	Harvard Medical School, U.S.A.	<i>Technology for ultra-high field brain MRI and fMRI</i>
2012.09.04	Jie He	University of Cambridge, U.K.	<i>Development and function of neural circuits: two case studies</i>
2012.09.05	Xiao-Bing Gao	Yale University School of Medicine, U.S.A.	<i>An overview of hypothalamic functions: from homeostatic regulation to behavior</i>
2012.09.06	Xiao-Bing Gao	Yale University School of Medicine, U.S.A.	<i>Hypothalamic regulation of energy homeostasis</i>
2012.09.07	Hui Zong	University of Oregon, U.S.A.	<i>Understanding tumor cell maneuvers with MADM, a genetic mosaic system</i>
2012.09.11	Xiao-Bing Gao	Yale University School of Medicine, U.S.A.	<i>Hypothalamic mechanisms of sleep regulation</i>
2012.09.21	Gary Lewin	Bernstein Center for Computational Neuroscience, Germany	<i>The Molecules of touch</i>
2012.09.27	Daniel Felleman	The University of Texas Medical School at Houston, U.S.A.	<i>The representation of hue and orientation in areas V2 and V4 of macaque monkey visual cortex</i>
2012.10.15	Lyndon da Cruz	Moorfields Eye Hospital, NHS Foundation Trust, U.K.	<i>Towards the cure of human retina disease: the artificial retina / Bionic eye and stem cell transplantation approaches</i>
2012.10.23	Virginia M.-Y. Lee	University of Pennsylvania School of Medicine	<i>Transmission of alpha-synuclein in Parkinson's disease</i>
2012.10.23	John Q. Trojanowski	University of Pennsylvania School of Medicine, U.S.A.	<i>Tau Transmission and Therapeutics</i>
2012.10.29	Hugo J. Bellen	Baylor College of Medicine, U.S.A.	<i>Altered mitochondrial function and dynamics induces neurodegeneration</i>
2012.10.31	King-Wai Yau	Johns Hopkins University School of Medicine, U.S.A.	<i>Melanopsin Signaling in the Eye</i>
2012.11.01	Cheng-Chang Lien	National Yang-Ming University, Taipei	<i>Acid-Sensing Ion Channels in the Hippocampus</i>

2012.11.05 Yoshiyuki Kubota

Natl. Inst. Physiol. Sci. (NIPS),
Okazaki, Japan

*Locally limited conductance of IPSCs
elicited by fast spiking interneurons
synapsing onto cortical pyramidal cells*

Institute of Neuroscience Mini-Course on Cellular Neurophysiology

Speaker: Samuel M. Wu, Ph.D.

Professor, Baylor College of Medicine, U.S.A.

- 10/23: Lecture 1: Ion movements in excitable cells, the Nernst-Planck equation, equilibrium potential, passive and active distribution of ions.
- 10/24: Lecture 2: Electrical properties of membrane, current-voltage relations, membrane rectification.
Movement of ions across membrane, the constant field model and membrane permeability.
- 10/31: Lecture 3: The energy barrier model and the gate model for voltage- and time-dependent currents, voltage-clamp technique.
- 11/01: Lecture 4: Hodgkin-Huxley's voltage-clamp measurements of sodium and potassium currents in the squid axon, membrane excitation, and action potential propagation.
- 11/06: Lecture 5: Gating currents, gating current and channel inactivation.
- 11/07: Lecture 6: Whole-cell voltage clamp analysis of potassium, calcium and sodium currents. Unitary currents and macroscopic currents.
- 11/13: Lecture 7: Molecular structure of voltage- and ligand-gated channels, mechanisms of ion selectivity.
- 11/14: Lecture 8: Statistical analysis of channel population behavior, nonstationary noise analysis.
- 11/27: Lecture 9: Probability density function of channel open and close times, and channel gating.
- 11/28: Lecture 10: Stochastic principles of single channel behavior, transition probability of channel gating, the Chapman-Kolmogorov equation.
- 12/04: Lecture 11: Stochastic analysis of the two-state channels, rate coefficients and the infinitesimal matrix, channel dwell time and rate coefficients.
- 12/05: Lecture 12: Stochastic analysis and general rules for n-state single channels, stationary noise analysis.
- 12/11: Lecture 13: Single channel analysis of BK channels, cGMP-gated channels and HCN channels.
- 12/12: Lecture 14: Single channel analysis of voltage- and ligand-gated channels, neurotransmitter-gated channels.

Institute of Neuroscience Mini-Lectures

Speaker: Xiao-Bing Gao, Ph.D.

Associate Professor, Yale University School of Medicine U.S.A.

Functions of the hypothalamus

09/05: Lecture 1: An overview of hypothalamic functions: from homeostatic regulation to behavior

09/06: Lecture 2: Hypothalamic regulation of energy homeostasis

09/07: Lecture 3: Hypothalamic mechanisms of sleep regulation

Speaker: Man-Yuan Long, Ph.D.

Professor, University of Chicago, U.S.A.

Concepts of evolution and the origin of new genes

12/18: Lecture 1: Meanings of Evolution

12/18: Lecture 2: Reconstruction of Evolutionary Process and detecting underlying forces

12/19: Lecture 3: Origins of New Genes

12/19: Lecture 4: Evolution of Genetic Basis underlying Brains and Behaviors

报告人: Prof. Fred Gage

中国科学院神经科学研究所
中国科学院北京生命科学研究院
中国科学院北京基因组研究所

报告题目: Neuronal Gene Networks Drive Brain Development

报告时间: 2012年12月10日下午14:00
报告地点: 中国科学院北京生命科学研究院
报告厅A, 中国科学院礼堂



中国科学院植物研究所



中国科学院植物研究所

纪念张香桐先生学术汇报暨 暨张香桐先生铜像揭幕仪式

活动时间：2018年11月16日（周五）下午14:00

活动地点：中国科学院北京植物园

会议议程

第一部分：学术报告

14:00-14:30 张香桐先生铜像揭幕仪式（中国科学院植物园）

Session 1: Progress in Signal Processing

Session 2: Membrane Potential and Ion Channels

Session 3: Progress in Brain Research

Session 4: Neurobiology of Brain Disorders

Session 5: Brain Disorders and Translational Research

第二部分：老职工、毕业学生交流座谈会

14:30-15:00 中国科学院植物园的神经所各位前辈座谈会

第三部分：张香桐先生铜像揭幕仪式

15:00-15:30 中国科学院植物园学术报告厅

张香桐先生简介：

张香桐（1918-2018），中国科学院院士，植物所

神经所名誉所长。

张香桐先生是我国神经科学领域的奠基人之一，长期致力于神经生物学和神经生理学的研究。他在膜电位、离子通道、神经递质受体等方面取得了重要成果，为我国神经科学的发展做出了卓越贡献。张香桐先生还积极推动我国神经科学与国际接轨，培养了大批优秀人才，为我国神经科学事业的繁荣发展做出了巨大贡献。