

42nd NIPS International Symposium
- NIPS and BRI Niigata University Joint Symposium -
“Advanced Research Areas for the Future Breakthrough in Neuroscience”

Date: March 6 (Tue) - 7 (Wed), 2012

Place: Yamate Conference Room, Seminar Room

March 6 (Tue)

12:00-12:10 Welcome Remarks

Yasunobu Okada (Director-General, National Institute for Physiological Sciences)

Session I: Advanced Mouse Model Chair: Akiyoshi Kakita, BRI Niigata Univ.

12:10-12:45 “Systematic generation of gene manipulated mice using C57BL/6 ES cell RENKA”

Kenji Sakimura (Basic Neuroscience Branch, Department of Cellular Neurobiology, BRI Niigata University)

12:45-13:20 “GABA accelerates the migration of cortical interneurons in vivo”

Junichi Nabekura (Section of Multiphoton Neuroimaging, Center for Brain Experiment, NIPS)

13:20-13:30 Coffee Break

Session II: Biological Fluctuations Chair: Kazuhiro Ikenaka, NIPS

13:30-14:05 “Regulatory role of hypothalamic AMP-kinase in food selection behavior”

Yasuhiko Minokoshi (Section of Metabolic Physiology, Center for Genetic Analysis of Behavior, NIPS)

14:05-15:00 **(Special Lecture)**

“Molecular regulation of voltage-gated ion channel expression, localization and function in mammalian brain neurons”

James S. Trimmer (University of California, Davis)

15:00-15:15 Coffee Break

Session III: Advanced Analysis for Alzheimer's Disease Chair: Keiji Imoto, NIPS

15:15-15:50 “Molecular dissection of Alzheimer's disease (AD) pathogenesis by analysis of familial AD-linked molecules”

Takeshi Ikeuchi (Center for Transdisciplinary Research, BRI Niigata University)

15:50-16:25 “Genomics of Alzheimer disease”

Ryozo Kuwano (Department of Molecular Genetics, Center for Bioresource-based Researches, BRI Niigata University)

16:25-17:20 **(Special Lecture)**

“Preventive and therapeutic effects of intravenously injected adipose-derived stem cells in Alzheimer's disease and advanced human brain imaging in neurodegenerative diseases”

Yoo-Hun Suh (Seoul National University)

17:20-20:00 **Poster Session & Reception**

March 7 (Wed)

Session IV: Advanced Molecular Imaging Chair: Ryuichi Shigemoto, NIPS

9:30-10:05 “High voltage electron microscopy for biological specimens”

Kazuyoshi Murata (Section of Brain Structure Information, Supportive Center for Brain Research, NIPS)

10:05-10:40 “Axonal distribution of lipids revealed by imaging mass spectrometry”

Mitsutoshi Seto (Division of Neural Cell Structure, Department of Cell Physiology, NIPS)

10:40-10:55 Coffee Break

Session V: Brain Imaging Chair: Hitoshi Takahashi, BRI Niigata Univ.

- 10:55-11:30 “Surgical Pathologic Features of Epileptogenic Lesions”
Akiyoshi Kakita (Department of Digital Medicine, Center for Integrated Human Brain Science, BRI Niigata University)
- 11:30-12:05 “Dynamics of water in brain: focusing on ischemic edema”
Hironaka Igarashi (Department of Biological Magnetic Resonance, Center for Integrated Human Brain Science, BRI Niigata University)
- 12:05-12:40 “Inter-individual neural synchronization during eye-contact and joint attention”
Norihiko Sadato (Section of Brain Function Information, Center for Brain Experiment, NIPS)
- 12:40-12:45 Closing Remarks
Hitoshi Takahashi (Director, Niigata University Brain Research Institute)