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”
            Norihiro 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)