

Korea-Japan Basic Scientific Cooperation Program
Korea-Japan Joint Seminar

”Molecular and systemic basis of neurological disorders”

Date: February 9 (Thu)- 10 (Fri), 2006

Place: Okazaki New Grand Hotel

February 8 (Wed)

18:00- Get together

February 9 (Thu)

8:50- 9:00 Opening remarks

(Professor Kyung Hwan Kim : Dean of Yonsei University
Medical School, and Director of BK21Project for Medical Science,
Yonsei University)

9:00-10:30 **Session I** (Chairperson: Keiji Imoto)

Yasushi Okamura (OIIB / NIPS)

Voltage-regulated phosphatase conserved among chordates

Yoshihiro Kubo (NIPS)

Regulation mechanisms and structural rearrangements of metabotropic
glutamate receptor

Im Joo Rhyu (College of Medicine Korea University)

Ataxic Calcium Channel Mutants. What happens in their cerebella?

- Molecular and morphological approaches –

10:30-11:00 Coffee Break

11:00-12:30 **Session II** (Chairperson: Ryuichi Shigemoto)

Tadashi Isa (NIPS)

Functional recovery of dexterous finger movements after the lesion of
the corticospinal tract at cervical spinal cord in monkeys

Woong Sun (College of Medicine Korea University)

Programmed cell death of adult generated hippocampal neurons is
required for the maintenance of the normal hippocampal function

Hiroyuki Nawa (Niigata University)

Perinatal perturbation of neurotrophic factors / cytokines results in distinct cognitive / behavioral impairments; Implication in schizophrenia

12:30-13:30 Lunch

13:30-15:00 **Session III** (Chairperson: Chang-Sub Uhm)

Yong-Ku Kim (College of Medicine, Korea University)

Biological prediction factors associated with suicidal behavior in major depressive disorder

Jin Woo Chang (Yonsei University College of Medicine)

Recent experimental strategies for the treatment of rat model of Parkinson's disease with 6-OHDA

Ryosuke Takahashi (Kyoto University Graduate School of Medicine)

The molecular mechanisms of familial parkinsonism

15:00-15:30 Coffee Break

15:30-17:30 **Session IV** (Chairperson: Norihiro Sadato)

Gen Sobue (Nagoya University)

Pathogenesis-based therapeutic approaches for spinal and bulbar muscular atrophy (SBMA)

Jong Doo Lee (Yonsei University College of Medicine)

Regional alteration of GABA-A receptor activity in spastic diplegia type cerebral palsy on 18F- fluoroflumazenil positron emission tomography

Dong Goo Kim (Yonsei University College of Medicine)

Neuropsychological, neurochemical and neuroimaging assessment of computer addicts in Korean adolescents

Yasuhisa Fujibayashi, (University of Fukui)

Non-invasive monitoring of cell transplantation / gene therapy using a reporter estrogen receptor gene.

18:00- Reception

February 10 (Fri)

8:30-10:00 **Session V** (Chairperson: Atushi Nanbu)

Kuniaki Nagayama (OIIB / NIPS)

In situ subcellular structures revealed with phase contrast electron microscopy

Yasunobu Okada (NIPS)

Requisite roles of disordered cell volume regulation in apoptosis.

Bae Hwan Lee (Yonsei University College of Medicine)

Improvement of functional recovery by cell transplantation in spinal cord injured rats

10:00-10:30 Coffee Break

10:30-12:30 **Session VI** (Chairperson: Makoto Tominaga)

Sun Joon Bai (Yonsei University College of Medicine)

Pain dynamics – cortical observation by fMRI

Kazue Mizumura (Nagoya University)

Peripheral correlates of muscle mechanical hyperalgesia after eccentric contraction - an approach for the mechanism of muscle pain -

Hee Chul Han (College of Medicine, Korea University)

Objective measurement of arthritic pain and its application

Sun Wook Hwang (Graduate School, Korea University)

Polymodal nature of TRPA1, the thermal, chemical and mechanical pain sensor

12:30-12:40 Concluding Remarks

(Professor Noboru Mizuno : Director-General, NIPS)

* OIIB : Okazaki Institute for Integrative Bioscience

** NIPS : National Institute for Physiological Sciences