

Luncheon Seminar

1LS02 Catalyzing Discovery through Next Generation Miniature Microscopes for Circuit Neuroscience

July 26 11:50-12:50

Room 2 (International Conference Room, 3F, Kobe International Conference Center)

***in English**

Chairperson: Haruhiko Bito
The University of Tokyo Graduate School of Medicine

1LS02-1 Cell ensemble mechanisms underlying memory processing

Kaoru Inokuchi

Department of Biochemistry, Graduate School of Medicine & Pharmaceutical Sciences,
University of Toyama

1LS02-2 Integrated solutions for circuit neuroscience

Jonathan Nassi

Lead Scientist, Inscopix, Inc

Co-hosted by Inscopix, Inc.

1LS03 Frontiers of Neuromodulation / Neurofeedback Researches & Applications

July 26 11:50-12:50

Room 3 (Reception Hall, 3F, Kobe International Conference Center)

***in Japanese**

Chairperson: Hitoshi Okazawa
Department of Neuropathology, Tokyo Medical and Dental University

1LS03-1 Yasushi Naruse^{1,2}

¹Center for Information and Neural Networks (CiNet), ²National Institute of Information and Communications Technology (NICT)

1LS03-2 Atsuo Mogi

JSOL Corporation

1LS03-3 Kaoru Amano^{1,2}

¹Center for Information and Neural Networks (CiNet), ²National Institute of Information and Communications Technology (NICT)

Moderator: Takahiro Yamazaki
NTT Data Institute of Management Consulting, Inc.

Co-hosted by NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.

1LS04 Enjoy superresolution imaging!

July 26 11:50-12:50

Room 4 (401+402, 4F, Kobe International Conference Center)

***in Japanese**

Chairperson: Misuzu Nakajima
NIKON INSTECH CO., LTD.

1LS04-1 Structured illumination microscopy applied to analysis of synapse dynamics

Shigeo Okabe

Department of Cellular Neurobiology, Graduate School of Medicine and Faculty of Medicine,
The University of Tokyo

1LS04-2 New superresolution microscope N-SIM S

Atsushi Tsurumune

NIKON INSTECH CO., LTD.

Co-hosted by NIKON INSTECH CO., LTD.

1LS05 Innovative hardware super resolution technology and cutting-edge neuroscience imaging

July 26 11:50-12:50

Room 5 (501, 5F, Kobe International Conference Center)

***in Japanese**

Chairperson: Takeshi Imai
Department of Developmental Neurophysiology, Graduate School of Medical Sciences, Kyushu
University

1LS05-1 3D organization of columnar units by N-cadherin-dependent differential adhesion and inter-layer interactions

Makoto Sato

Mathematical Neuroscience Unit, Institute for Frontier Science Initiative Lab of Developmental
Neurobiology, Graduate School of Medical Sciences

1LS05-2 Realizing cutting edge Imaging by hardware super resolution technology

Rie Hayashi

Carl Zeiss Co., Ltd.

Co-hosted by Carl Zeiss Co., Ltd.

1LS06 Parkinson's disease primate model

July 26 11:50-12:50

Room 6 (502, 5F, Kobe International Conference Center)

***in English**

Chairperson: Tatsushi Toda
Department of Neurology, Graduate School of Medicine, The University of Tokyo

1LS06-1 α -synuclein propagation marmoset model for Parkinson's disease

Hideki Mochizuki

Department of Neurology, Osaka University

1LS06-2 Primate model of L-Dopa-induced dyskinesia for preclinical trials

Stella M. Papa

Department of Neurology, Emory University School of Medicine

Co-hosted by Takeda Pharmaceutical Company Limited

2LS02 Past, present, and future of systems neuroscience

July 27 11:50-12:50

Room 2 (International Conference Room, 3F, Kobe International Conference Center)

***in Japanese**

Chairperson: Kaoru Takakusaki
Asahikawa Medical University

2LS02-1 Next stage of neural circuit researches?

Tadashi Isa

Kyoto University

2LS02-2 What does it mean to understand the brain?

Naoshige Uchida

Harvard University

Co-hosted by NARISHIGE SCIENTIFIC INSTRUMENT LAB.

2LS03 Open innovation in microscopy: The driving force behind brain-wide imaging of neurons

July 27 11:50-12:50

Room 3 (Reception Hall, 3F, Kobe International Conference Center)

***in Japanese**

Chairperson: Takuma Kanesaki
Thorlabs Japan Inc.

2LS03-1 Whole Mouse Brain 3-D Imaging with Isometric Single-Cell-Resolution Masafumi Kuroda

International Research Center for Neurointelligence (WPI-IRCN), The University of Tokyo

2LS03-2 Multiphoton Mesoscope reconciles large FOV and high resolution in the functional neuroimaging of brain

Hiroyuki Takuwa

Department of Functional Brain Imaging Research, National Institute of Radiological Sciences,
National Institutes for Quantum and Radiological Science and Technology

Co-hosted by Thorlabs Japan Inc.

2LS04 Pathogenetic mechanisms and treatment of Guillain-Barré syndrome

July 27 11:50-12:50

Room 4 (401+402, 4F, Kobe International Conference Center)

***in Japanese**

Chairperson: Hideki Mochizuki
Department of Neurology, Graduate School of Medicine, Osaka University

Susumu Kusunoki

Department of Neurology, Kindai University Faculty of Medicine

Co-hosted by Japan Blood Products Organization

2LS05 Modulating microglial activation states in Alzheimer's disease through TREM2 and other receptors

July 27 11:50-12:50

Room 5 (501, 5F, Kobe International Conference Center)

***in English**

Chairperson: Haruhiko Bito
Department of Neurochemistry, The University of Tokyo Graduate School of Medicine

David Hansen
Department of Neuroscience, Genentech

Co-hosted by Chugai Pharmaceutical Co.,Ltd.

2LS06 The relationship between Parkinson's disease and constipation -The key is gut microbiota?-

July 27 11:50-12:50

Room 6 (502, 5F, Kobe International Conference Center)

***in Japanese**

Chairperson: Ryosuke Takahashi
Department of Neurology, Kyoto University Graduate School of Medicine

Yuji Naito
Molecular Gastroenterology and Hepatology Kyoto Prefectural University of Medicine

Co-hosted by Mylan EPD G.K.

2LS07 Functional and structural studies of neuronal circuits

July 27 11:50-12:50

Room 7 (504+505, 5F, Kobe International Conference Center)

***in Japanese**

2LS07-1 Functional and structural studies of neuronal circuits

Takeshi Imai
Department of Developmental Neurophysiology, Graduate School of Medical Sciences,
Kyushu University

2LS07-2 A spherical aberration-free microscopy system for live brain imaging: a case of RIKEN CBS-OLYMPUS collaboration activity

Yoshihiro Ue^{1,2}

¹RIKEN CBS-Olympus Collaboration Center, RIKEN, ²OLYMPUS Corporation

Co-hosted by OLYMPUS CORPORATION

2LS10 The brain of athletes

July 27 11:50-12:50

Room 10 (3B, 3F, Hall No.2 Building, Kobe International Exhibition Hall)

***in Japanese**

Moderator: Shinobu Masaki
ATR-Promotions Inc.

Yu Aramaki
Chukyo University School of Health Science

Co-hosted by ATR-Promotions Inc.

3LS02 Nucleic acid-based drug medicine for Spinal Muscular Atrophy as disease modifying therapy

July 28 11:50-12:50

Room 2 (International Conference Room, 3F, Kobe International Conference Center)

***in Japanese**

Chairperson: Takanori Yokota
Department of Neurology and Neurological Science, Tokyo Medical and Dental University

3LS02-1 Antisense oligonucleotide therapy for spinal muscular atrophy

Kayoko Saito
Institute of Medical Genetics, Tokyo Women's Medical University

3LS02-2 Antisense therapy for splicing defects

Kentaro Sahashi
Department of Neurology, Nagoya University

Co-hosted by Biogen Japan Ltd.

3LS04 New Directions in the Management of Insomnia

July 28 11:50-12:50

Room 4 (401+402, 4F, Kobe International Conference Center)

***in Japanese**

Chairperson: Haruhiko Akiyama
Department of Clinical Research, Yokohama Brain and Spine Center

3LS04-1 Role of Orexin in the Regulation of Sleep/Wakefulness

Akihiro Yamanaka

Research Institute of Environmental Medicine (RIEM), Nagoya University

3LS04-2 Dual Orexin Receptor Antagonist in the Management of Insomnia

Yasunori Oka

Center for Sleep Medicine, Ehime University Hospital

Co-hosted by MSD K.K.

3LS05 Parkinson's Disease -Understand, Diagnose and Treat-

July 28 11:50-12:50

Room 5 (501, 5F, Kobe International Conference Center)

***in Japanese**

Chairperson: Hisatomo Kowa
Kobe University

Nobutaka Hattori

Juntendo University Graduate School of Medicine, Department of Neurology

Co-hosted by AbbVie GK

3LS06 The cutting edge of Parkinson's research

July 28 11:50-12:50

Room 6 (502, 5F, Kobe International Conference Center)

***in Japanese**

Chairperson: Tatsushi Toda
Department of Neurology, Division of Neuroscience, Graduate School of Medicine, The University of Tokyo

3LS06-1 Updates of function neuroimaging in Lewy body disease

Shigeki Hirano

Department of Neurology, Graduate School of Medicine, Chiba University

3LS06-2 Can the propagation hypothesis explain multifaceted phenotype of Lewy body disease ?

Takafumi Hasegawa

Division of Neurology, Department of Neuroscience & Sensory Organs, Tohoku University Graduate School of Medicine

Co-hosted by Sumitomo Dainippon Pharma Co.,Ltd./Nihon Medi-Physics Co.,Ltd.

3LS07 Neural Mechanisms Underlying Various Olfactory Behaviours -With Special Reference to a Novel Adenosine Olfactory Receptor "A2c"-

July 28 11:50-12:50

Room 7 (504+505, 5F, Kobe International Conference Center)

***in Japanese**

Chairperson: Haruo Kasai
Laboratory of Structural Physiology, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, the University of Tokyo

Yoshihiro Yoshihara

Laboratory for Systems Molecular Ethology, RIKEN Center for Brain Science

Co-hosted by Kyowa Hakko Kirin Co., Ltd.

3LS10 Development of the fluid biomarkers for Alzheimer's diseases and other dementias

July 28 11:50-12:50

Room 10 (3B, 3F, Hall No.2 Building, Kobe International Exhibition Hall)

***in Japanese**

Moderator: Susumu Tasaki
Life Science Reagent Development Department

Takahiko Tokuda

Dept. of Molecular Pathobiology of Brain Diseases Kyoto Prefectural University of Medicine

Co-hosted by FUJIFILM Wako Pure Chemical Corporation

4LS02 Stem cell-based therapy for Parkinson's disease

July 29 11:50-12:50

Room 2 (International Conference Room, 3F, Kobe International Conference Center)

***in English**

Chairperson: Wado Akamatsu
Center for Genomic and Regenerative Medicine, Juntendo University School of Medicine

Jun Takahashi

Dept. of Clinical Application, Center for iPS Cell Research and Application, Kyoto University

Co-hosted by Novartis Pharma K.K.