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 Naruse¹,²
¹Center for Information and Neural Networks (CiNet), ²National Institute of Information and Communications Technology (NICT)

1LS03-2  Atsuo Mogi
JSOL Corporation

1LS03-3  Kaoru Amano¹,²
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.
<table>
<thead>
<tr>
<th>2LS03</th>
<th>Open innovation in microscopy: The driving force behind brain-wide imaging of neurons</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 27</td>
<td>11:50-12:50</td>
</tr>
<tr>
<td>Room 3 (Reception Hall, 3F, Kobe International Conference Center)</td>
<td></td>
</tr>
</tbody>
</table>

*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.

<table>
<thead>
<tr>
<th>2LS04</th>
<th>Pathogenetic mechanisms and treatment of Guillain-Barré syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 27</td>
<td>11:50-12:50</td>
</tr>
<tr>
<td>Room 4 (401+402, 4F, Kobe International Conference Center)</td>
<td></td>
</tr>
</tbody>
</table>

*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
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
<th>Language</th>
<th>Chairperson(s)</th>
<th>Co-hosted by</th>
</tr>
</thead>
<tbody>
<tr>
<td>2LS05</td>
<td>Modulating microglial activation states in Alzheimer’s disease through TREM2 and other receptors</td>
<td>July 27</td>
<td>11:50-12:50</td>
<td>Room 5 (501, 5F, Kobe International Conference Center)</td>
<td>in English</td>
<td>Haruhiko Bito, Department of Neurochemistry, The University of Tokyo Graduate School of Medicine; David Hansen, Department of Neuroscience, Genentech</td>
<td>Chugai Pharmaceutical Co., Ltd.</td>
</tr>
<tr>
<td>2LS06</td>
<td>The relationship between Parkinson’s disease and constipation -The key is gut microbiota?-</td>
<td>July 27</td>
<td>11:50-12:50</td>
<td>Room 6 (502, 5F, Kobe International Conference Center)</td>
<td>in Japanese</td>
<td>Ryosuke Takahashi, Department of Neurology, Kyoto University Graduate School of Medicine; Yuji Naito, Molecular Gastoroenterology and Hepatology Kyoto Prefectural University of Medicine</td>
<td>Mylan EPD G.K.</td>
</tr>
<tr>
<td>2LS07</td>
<td>Functional and structural studies of neuronal circuits</td>
<td>July 27</td>
<td>11:50-12:50</td>
<td>Room 7 (504+505, 5F, Kobe International Conference Center)</td>
<td>in Japanese</td>
<td>Takeshi Imai, Department of Developmental Neurophysiology, Graduate School of Medical Sciences, Kyushu University; Yoshihiro Ue</td>
<td>OLYMPUS CORPORATION</td>
</tr>
</tbody>
</table>

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
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 Prefectual 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.