



ISN 2014 Special Conference – Program at a Glance

Legend			
Plenary lecture	Keynote Lecture	Break	Social Event
Round Table	Poster Session	Young Investigators	Oral session

“Dynamic Change of Nanostructure in the Brain in Health and Disease – Cutting Edge of the Technical Innovation –”

Saturday, September 20, 2014

12:00	Registration Opens
14:15 - 15:15	14:00-14:15 - Opening remarks - Katsuhiko Mikoshiba (PL1) Opening Lecture Chair: Tomoaki Shirao 14:15-15:15 - Toshio Ando, Japan <i>Video imaging of walking myosin V by high-speed atomic force microscopy</i>
15:15 - 17:00	(S1) Development of new techniques of optical microscopy Chairs: Rainer Duden & Yuko Sekino 15:15-15:45 - Valentin Nagerl, France - <i>STED imaging of neuronal synapses</i> 15:45-16:15 - Irina Majoul, Germany - <i>Molecules controlling the rearrangement of highly permeable cell-cell contact interfaces</i> 16:15-16:45 - Johnny Tam, Spain - <i>Cross-Talk-Free Multi-Color STORM</i> 16:45-17:00 - Short talk: L. F. Yoong, Japan - <i>An in vivo time-lapse imaging screen reveals that atypical myosin regulate growth cone behavior in complex dendritic branching</i>

Sunday, September 21, 2014

09:00 - 09:45	(KL1) Keynote Lecture Chair: Hiroshi Ohnishi So Iwata, UK - <i>Structure studies on G-protein coupled receptors</i>
09:45 - 10:15	Coffee Break

10:15 - 11:30	<p>(S2) Probe microscopy and NMR Chairs: Elena Grintsevich & Tatsuo Ushiki 10:15-10:45 - Tatsuo Ushiki, Japan - <i>Scanning ion conductance microscopy and its applications in biology</i> 10:45-11:15 - Inagaki F., Japan - "Initial phosphorylation step required for FGF receptor activation" 11:15-11:30 - Short talk: K. Takahashi, Japan - <i>Quantitative observation of cultured glia and glioma using high-resolution acoustic impedance microscope</i></p>
11:30 - 13:30	<p><i>Break & Poster Session</i></p>
13:30 - 14:15	<p>(KL2) Keynote Lecture Chair: Yumiko Saito Olivier Civelli, USA - <i>Orphan GPCRs and the search for their ligands</i></p>
14:15 - 16:00	<p>(S3) Molecular signature and dissection of G-protein-coupled receptor Chair: Peter Penzes 14:15-14:45 - Takuya Kobayashi, Japan - <i>Crystallization of human GPCRs using antibody fragments</i> 14:45-15:15 - Lakshmi A. Devi, USA - <i>Opioid receptor heteromer regulation by endogenous chaperones</i> 15:15-15:45 - Kazushige Touhara, Japan - <i>Chemosensory receptors and animal behavior</i> 15:45-16:00 - Short talk: Akie Hamamoto, Japan - <i>The intracellular residues which are important for the selective activation of Gi/o proteins in rat melanin-concentrating hormone</i></p>
16:00 - 16:30	<p><i>Coffee Break</i></p>
16:30 - 18:30	<p>(S4) Membrane receptors, transporters and synapses Chairs: Yoshikatsu Kanai & Mica Ohara-Imaizumi 16:30-17:00 - Joseph Schlessinger, USA - <i>Structural basis for KIT receptor tyrosine kinase inhibition by antibodies targeting the D4 membrane-proximal region</i> 17:00-17:30 - Atsuko Yamashita, Japan - <i>Structure and function of a prokaryotic SLC6 transporter LeuT - a footing for understanding neurotransmitter transporters</i> 17:30-18:00 - Maria Mittelbrunn, Spain <i>The immune synapse as a platform to facilitate the intercellular transfer of genetic information</i> 18:00-18:30 - Stepane Oliet, France - <i>Surface dynamics of astroglial glutamate transporter GLT-1 shapes excitation</i></p>
<p>Monday, September 22, 2014</p>	
09:00 - 09:45	<p>(KL3) Keynote Lecture Chair: Keiichi Uyemura Tomoaki Shirao, Japan - <i>Drebrin and its function</i></p>
09:45 - 10:00	<p><i>Coffee Break</i></p>

10:00 - 12:00	<p>(S5) Nanostructure of actin-myosin system Chairs: Christian Gonzalez-Billault & Shinichi Hisanaga 10:00-10:30 - Elena Grintsevich, USA - <i>Nanoscale remodeling of actin filaments by drebrin A and its implication for regulatory interactions</i> 10:30-11:00 - Phillip R. Gordon, UK - <i>Drebrin function in Neuritogenesis and Cancer</i> 11:00-11:15 - Ryoki Ishikawa, Japan - <i>Properties of the sliding of myosin on actin filaments decorated with various kinds of actin-binding proteins</i> 11:15- 11:45 - Rainer Duden, Germany - <i>Functional Insights into remodelling of cell-cell contacts by AB5 toxins</i> 11:45-12:00: Short talk: E. Butkevich, Germany - <i>Drebrin-like protein 1 is a novel sarcomere component which stabilizes actin filaments during muscle contraction</i></p>
12:00 - 14:00	Break & Poster Session
14:00 - 14:45	<p>(YL1) Young Investigator Lecture Chair: Hiroshi Kiyama Hideto Takahashi, Canada - <i>Neuronal adhesion complexes inducing CNS synapse development</i></p>
14:45 - 15:45	<p>Round Table Chairs: Itsuki Ajioka & Miwako Kobayashi Participants: All speakers and the registrants who sign up</p>
15:45 - 16:00	Coffee Break
16:00 - 17:45	<p>(S6) Dynamic structure of signaling proteins Chairs: Nobuyuki Takei & Lambright DG 16:00-16:30 - Lambright DG, USA - <i>Structural dynamics of autoregulation in phosphoinositide-dependent Arf GTPase exchange factors</i> 16:30-17:00 - Daisuke Kohda, Japan - <i>Structural and dynamic basis for mitochondrial presequence recognition by Tom20</i> 17:00-17:30 - Taisuke Tomita, Japan - <i>Structure of γ-secretase</i> 17:30-17:45 - Short talk: Shin-ichi Terawaki, Japan - <i>Structural basis for the membrane-targeting of Rac-specific guanine nucleotide exchange factors, Tiam1/2"</i></p>
17:45 - 18:45	<p>(PL2) Closing Lecture Chair: Kazuhiro Ikenaka 17:45-18:45 - Katsuhiko Mikoshiba, Japan <i>IP3 receptors and calcium in health and disease-from crystal structure to in vivo analysis</i> 18:45-18:50 - Closing Remarks - Tomoaki Shirao</p>
19:30-22:00 - Farewell Party	