

6th Special Conference of ISN
Dynamic Change of Nanostructure in the Brain in Health and Disease
-- Cutting Edge of the Technical Innovation --



20~22 September, 2014 in Tokyo, Japan
Chair of LOC: Dr. Katsuhiko Mikoshiba

● **September 20th (Saturday):**

Registration: (12:00~18:00)

Opening remarks: (13:50~14:00) Katsuhiko Mikoshiba

Opening lecture (14:00~15:00) (Chaired by Tomoaki Shirao)

Toshio Ando (Kanazawa Univ)

“Video imaging of walking myosin V by high-speed atomic force microscopy.”

Session 1 (15:00 ~17:00) **Development of new techniques of optical microscopy**

(Chaired by Rainer Duden and Yuko Sekino)

1. Valentin Nagerl (Institut Interdisciplinaire de NeuroSciences, France)
2. Irina Majoul (Ruebeck Univ. Germany)
3. TBA
4. Short talk: Speaker will be selected from the participants.
5. Short talk: Speaker will be selected from the participants.

Welcome reception: (17:00~18:30) (Beverages and light meals) MC: Kohtaro Takei

● **September 21th (Sunday):**

Keynote lecture (9:00~9:45) (Chaired by Francisco Barrantes)

So Iwata (Imperial College, UK)

“Rotation mechanism of *Enterococcus hirae* V-1-ATPase based on asymmetric crystal structures”

Coffee break (9:45~10:00)

Session 2: (10:00~11:30) **Probe microscopy and NMR**

(Chaired by Elena Grintsevich and Tatsuo Ushiki)

1. Tatsuo Ushiki (Niigata University, Japan)
2. Inagaki F. (Hokkaido University, Japan)
3. Short talk: Speaker will be selected from the participants.
4. Short talk: Speaker will be selected from the participants.

Poster session (Core time: 11:30~13:30)

Keynote lecture (13:30~14:15) (Chaired by Yumiko Saito)

Olivier Civelli (University of California, Irvine)

“G protein-coupled receptor deorphanizations”

Session 3(14:15~16:15) **Molecular signature and dissection of G-protein-coupled receptor** (Chaired by Peter Penzes and Mika Imaizumi)

1. Takuya Kobayashi (Kyoto University, Japan)
2. TBA
3. Kazunari Tohara (The University of Tokyo, Japan)
4. Short talk: Speaker will be selected from the participants.
5. Short talk: Speaker will be selected from the participants.

Coffee break (16:15~16:30)

Session 4(16:30~18:30): **Membrane receptors, transporters and synapses**

(Chaired by Yoshikatsu Kanai and TBA)

1. Joseph Schlessinger (Yale University, USA)
2. Rainer Duden (Ruebeck Univ. Germany)
3. Stepane Oliet (Institut des neurosciences de Bordeaux, France)
4. TBA

● **September 22th (Monday):**

Keynote lecture (9:00~9:45) (Chaired by Keiichi Uyemura)

Tomoaki Shirao (Gunma University, Japan)

“Drebrin-binding actin filaments at cell-cell junctions in health and diseases”

Coffee break (9:45~10:00)

Session 5 (10:00~11:30) **Nanostructure of actin-myosin system**

Chair: Christian Gonzalez-Billault and Shinichi Hisanaga)

1. Elena Grintsevich (UCLA)
2. Phillip R. Gordon-Weeks
3. Ryoki Ishikawa (GPCHS, Japan)
4. Short talk: Speaker will be selected from the participants.

Poster session (Core time: 11:30~13:30)

Young investigator lecture (13:30~14:15) (Chaired by Hiroshi Kiyama)

TBA

“Round table (14:15~15:15)

Chair: Itsuki Ajioka (Tokyo Medical and Dental University)
Miwako Kobayashi (Matsuyama University)

Participant: All speakers and the registrants who sign up.

Coffee break (15:15~15:30)

Session 6 (15:30~17:30): Dynamic structure of signaling proteins

(Chaired by Nobuyuki Takei and Lambright DG)

1. Lambright DG (University of Massachusetts Medical School, USA)
2. Daisuke Kohda (Kyushu Univ)
3. Taisuke Tomita (University of Tokyo)
4. TBA

Closing lecture: (17:30~18:30) (Chaired by Kazuhiro Ikenaka)

Katsuhiko Mikoshiba (BSI)

“IP3 receptors and calcium in health and disease

-----from crystal structure to *in vivo* analysis-----”

Closing Remarks: Tomoaki Shirao

Farwell Party (19:30~21:30) MC: Noriko Koganezawa