International Seminar on Biophysics and Chemical Biology of Biomembrane and Lipid Bilayers

Monday 9 October 2017

9:50-10:00  Welcome / Opening Remark

10:00-11:00  Using lipid exchange to explore membrane domain formation and function in lipid vesicles and cells
Erwin London, Stony Brook University

11:00-11:40  Unraveling of raft organization and function by single-molecule imaging
Kenichi Suzuki, Gifu University

11:40-12:00  Development of structurally defined fluorescent probes of glycosphingolipids useful for lipid raft research
Hiromune Ando, Gifu University

12:00-13:40  Lunch and Poster Session

13:40-14:20  Emergent Properties of Vesicles - Chiral Recognition and Conversion on Membrane-
Hiroshi Umakoshi, Osaka University

14:20-15:00  Development of Stimuli-responsive Alternating Multiblock Amphiphiles as Mimics for Transmembrane Proteins
Kazushi Kinbara, Tokyo Institute of Technology

15:10-15:50  Integrated analysis of membrane systems
Nobuaki Matsumori, Kyushu University

15:50-16:30  The Role of Membrane Anchor in Prod1 for the Newt Limb Regeneration
Kaoru Nomura, Suntory Foundation for Life Sciences

16:40-17:00  Live cell super-resolution topography and chemical imaging by scanning probe microscopy
Yasufumi Takahashi, Kanazawa University

17:00-17:20  Thermodynamic Parameters for Phospholipid-Phospholipid Interactions in Bilayers Determined by Vesicle Solubilization
Keisuke Ikeda, University of Toyama

17:20-17:40  Mechanism of signaling across the membrane by receptor tyrosine kinase
Takeshi Sato, Kyoto Pharmaceutical University

17:40-18:00  Accumulation of amyloidogenic protein on the variety types of lipid membranes
Toshinori Shimanouchi, Okayama University

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9:30-9:50  Solid state NMR study of glycosphingolipids in model membrane
Shinya Hanashima, Osaka University

9:50-10:10  Effect of cholesterol on membrane fusion
Sangjae Seo, Nagoya University

10:10-10:30  Probing Lipid-Cholesterol Interaction
Peter Greimel, RIKEN

10:50-11:10  Dimer conformation sampling of FGFR3 transmembrane domain using MD simulation
Daisuke Matsuoka, RIKEN

11:10-11:50  How is ceramide/co-lipid interaction stabilized in bilayer membranes
J. Peter Slotte, Åbo Akademi University

- Date; October 9-10, 2017
- Venue; Nambu Yoichiro Hall, Department of Science, Osaka University
  10 min walk from Shibahara station (Osaka monorail)
- Organizers; Michio Murata, Hiroshi Umakoshi, J Peter Slotte
- Co-host; Suntory Foundation for Life Sciences
- Participation fee; free
- Get together; 9 Oct. 19:00 Senri Hankyu Hotel (7,000 yen)
- Contact and registration; Shinya Hanashima
  (e-mail: hanashimas13@chem.sci.osaka-u.ac.jp, phone: 06-6850-5789)