

First International Core-to-Core Symposium on Biomembrane Molecular Machinery

Dec. 11, 2024 (Wed), 9:30-18:00, Rokko Hall, Kobe University

2024年 12月 11日 (水) 9:30-18:00, 神戸大学 百年記念館

9:30 **Kenichi Morigaki** (Kobe University): *"Opening remarks and welcome to Kobe: New studies on biomembrane molecular machinery"*

10:00 **Itay Budin** (University of California, San Diego): *"Lipid chemistry that shapes cell membranes: a biophysical deep dive"*

..... **10:40 Coffee break**

11:00 **Kenichi Suzuki** (Gifu University): *"Regulation mechanisms of K-Ras-BRAF signaling in lipid domains as revealed by single-molecule imaging and super-resolution microscopy"*

11:30 **Toshiki Itoh** (Kobe University): *"Membrane tension and BAR proteins in the regulation of cellular dynamics and functions"*

..... **12:00 Lunch & Poster viewing**

13:30 **Holger Schönherr** (University of Siegen): *"Synthesis and detailed characterization of polymer brush-equipped membranes: Challenges, hopes and limitations"*

14:10 **Chie Hosokawa** (Osaka Metropolitan University): *"Molecular dynamics in an optical trap of cell surface receptors in neurons"*

14:40 **Rinshi Kasai** (National Cancer Center Japan): *"Dynamic organization and function of G-protein coupled receptor dimers on the membrane"*

15:10 **Yasuhito Shirai** (Kobe University): *"Novel Vitamin E receptor is involved in prevention of diabetic podocyte loss from the glomerular basement membrane"*

..... **15:40 Coffee break**

16:00 **Peter G. Adams** (University of Leeds): *"Understanding and manipulating the light-harvesting biomembranes from plants using biophysics and nanotechnology approaches"*

16:40 **Hayato Yamashita** (Osaka University): *"Visualizing biomembrane molecular structure and dynamics by high-speed AFM"*

17:10 **Takehisa Dewa** (Nagoya Institute of Technology): *"Biohybrid light-harvesting complexes in lipid bilayer membranes: Ultrafast excitation energy transfer and theoretical analysis"*

17:40 **Yasuhito Shirai** (Kobe University): Closing remarks