

# Frontiers of Multiscale Structural Biology: Order-disorder transitions and dynamic membrane interactions

Venue: ICHO Kaikan, Suita Campus, Osaka University

Date: May 9th, 2018

- 9:00 **Opening Remarks: Atsushi Nakagawa** (Director, IPR, Osaka Univ.)
- 9:10 **Shigeyuki Magi** (IPR, Osaka Univ.)  
Understanding negative feedback mechanism of ErbB signaling using mathematical modeling of cell population dynamics
- 9:40 **Frank Sobott** (Univ. Leeds, UK)  
Dynamic protein structure: from protein disorder to membrane pores
- 10:10 **Yohei Miyanoiri** (IPR, Osaka Univ.)  
Relaxation optimized SAIL-NMR method for studying structures and dynamics of protein complexes
- 11:00 **Hiroshi Imai** (Osaka Univ.)  
Journey to the centre of the cell: Cryo-EM observation of a stepping protein on its track
- 11:30 **Andrew Wilson** (Univ. Leeds, UK)  
Understanding and manipulating protein-proteins interactions using synthetic molecules
- 12:00 **Noriyuki Kodera** (Kanazawa Univ.)  
High-speed AFM imaging of bio-molecules in dynamic action
- 14:30 **Gautam Basu** (Bose Inst., India)  
Simple electrostatic models for complex biological interactions
- 15:00 **Junichi Higo** (Univ. Hyogo)  
A feature of free-energy landscape of intrinsic disordered proteins: computational study
- 15:30 **Antreas Kalli** (Univ. Leeds, UK)  
Understanding the interactions of membrane proteins with lipids using multiscale molecular simulations
- 16:20 **Rebecca Thompson** (Univ. Leeds, UK)  
Cryo-EM at Leeds — approaches and challenges for high resolution data acquisition
- 16:50 **Yao Cong** (National Center for Protein Science Shanghai, China)  
Protein quality control nanomachines in action revealed by near-atomic resolution cryo-EM
- 17:20 **Catherine Lawson** (Rutgers Univ., USA)  
Creating standards for building, validating and archiving large macromolecular complexes
- 17:50 **Closing remarks: Yuji Goto** (Vice Director, IPR, Osaka Univ.)

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Registration: Not required / Fee: Free

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