

# **The 3rd International Symposium on Dynamical Ordering of Biomolecular Systems for Creation of Integrated Functions**

## **PROGRAM**

### **January 10 (Saturday)**

- 9:00 – 9:10            Opening Address by Koichi KATO
- 9:10 – 9:50            L-1: Christian GRIESINGER (Max-Planck Institute for Biophysical Chemistry)  
                              “DYNAMICS OF BIOMOLECULAR SYSTEMS STUDIED BY NMR AND  
                              FURTHER BIOPHYSICAL TECHNIQUES”
- 9:50 – 10:20          L-2: Takayuki UCHIHASHI (Kanazawa University)  
                              “HIGH-SPEED ATOMIC FORCE MICROSCOPY FOR STUDYING DYNAMIC  
                              INTERACTIONS IN BIOMOLECULAR SYSTEMS”
- 10:20 – 10:50          Break
- 10:50 – 11:30          L-3: Anthony KOLESKE (Yale University)  
                              “Adhesive and Cytoskeletal Control of Dendrite Development and Stability”
- 11:30 – 12:00          L-4: Chikako SHINGYOJI (The University of Tokyo)  
                              “MECHANICAL ACTIVITY OF DYNEIN AND ITS DYNAMICAL ORDERING  
                              UNDERLYING OSCILLATORY MOVEMENT OF SPERM FLAGELLA”
- 12:00 – 12:40          Poster Preview (only poster prize candidates)
- 12:40 –                    Group Photo
- 12:40 – 14:30          Lunch Break
- 14:30 – 16:50          Poster I (mostly poster prize candidates)
- 16:50 – 17:30          Break
- 17:30 – 18:10          L-5: Carlos SIMMERLING (Stony Brook University)  
                              “PROTEIN FOLDING SIMULATIONS WITH A NEW AMBER FORCE FIELD  
                              AND SOLVENT MODEL”
- 18:30 –                    Banquet

## **January 11 (Sunday)**

- 9:10 – 9:50 L-6: Hajin KIM (Ulsan National Institute of Science and Technology)  
“PROTEIN-GUIDED RNA DYNAMICS DURING EARLY RIBOSOME ASSEMBLY”
- 9:50 – 10:20 L-7: Akira NAITO (Yokohama National University)  
“MOLECULAR MECHANISM OF AMYLOID FIBRIL FORMATION AND INHIBITION OF HUMAN CALCITONIN”
- 10:20 – 10:50 Break
- 10:50 – 11:30 L-8: Frans MULDER (Aarhus University)  
“ON THE ORIGIN OF THE 'PROTEIN GLASS TRANSITION'”
- 11:30 – 12:00 L-9: Hisashi OKUMURA (Institute for Molecular Science)  
“ALL-ATOM MOLECULAR DYNAMICS SIMULATIONS FOR AMYLOID FIBRIL ASSEMBLY AND DISASSEMBLY”
- 12:00 – 14:30 Lunch Break (Coordinator/Advisory Group Meeting)
- 14:30 – 15:00 L-10: Takafumi UENO (Tokyo Institute of Technology)  
“Designing Dynamic Function of Protein Assembly”
- 15:00 – 15:40 L-11: Gwenaél RAPENNE (CEMES-CNRS and University of Toulouse)  
“TECHNOMIMETIC NANOMACHINES : MOLECULAR WHEELS, VEHICLES, ROTORS AND MOTORS”
- 15:40 – 16:10 Break
- 16:10 – 16:40 L-12: Kazuki SADA (Hokkaido University)  
“MOLECULAR DESIGN OF THERMO-SENSITIVE POLYMERS AND PHASE SEPARATION INDUCED BY ORGANIC REACTION”
- 16:40 – 16:55 L-13: Takumi YAMAGUCHI (National Institutes of Natural Sciences)  
“ELUCIDATION OF THE MOLECULAR BASIS OF OLIGOSACCHARIDE FUNCTIONS BY NMR SPECTROSCOPY AND MOLECULAR DYNAMICS SIMULATION”
- 16:55 – 17:10 L-14: Takeshi YAMAMOTO (Kyoto University)  
“MOLECULAR CALCULATION OF FREE ENERGETICS FOR NANOCUBE SELF-ASSEMBLY IN SOLUTION”
- 17:10 – 19:30 Poster II
- 19:30 – Closing Remarks by Koichi KATO

## **January 12 (Monday)**

- 9:00 – 16:00 Free Discussion

# **Poster Sessions**

## **Poster Session I**

January 10 (Saturday)

14:30 – 16:50 Poster Presentation (mostly poster prize candidates)

## **Poster Session II**

January 11 (Sunday)

17:10 – 19:30 Poster Presentation