

The 25th iCeMS International Symposium

# Self-Assembly Science for Unlocking Life's Secrets

January 11-12, 2024

Kyoto University iCeMS  
Main Bldg 2F Seminar Room



**Makito Miyazaki** (RIKEN BDR / JST PRESTO)  
*Self-assembly of actin cytoskeletal dynamics in artificial cells*



**Taki Nishimura** (JST PRESTO / Grad Sch of Med, U of Tokyo)  
*Deciphering the Secret Code Hidden in the ATG3 Amphipathic  $\alpha$ -Helix*



**Yuki Hattori** (Grad Sch of Med, Nagoya U)  
*Microglial colonization and roles in early brain development*



**Mao Fukuyama** (IMRAM, Tohoku U)  
*Quantitative analysis of amyloid nucleation in protein condensates*



**Tomoko Inose** (iCeMS / Hakubi C, Kyoto U / JST PRESTO)  
*Plasmon-based nanowire endoscopy toward single live-cell interrogation*



**Yoshiaki Shoji** (CLS, IIS, Tokyo Inst of Tech)  
*Development of Functional Organoboron Compounds Based on a Concept "Boron Vacant-Orbital Engineering"*



**Kohei Kusada** (iCeMS / Hakubi C / Grad Sch of Sci, Kyoto U)  
*Precise Control of Three-Dimensional Atomic Arrangement in Metal Nanoparticles*



**Akira Kakugo** (Grad Sch of Sci, Kyoto U)  
*Dynamics and Functions of Biomolecular Motor based Active-Matter*



**Miho Yanagisawa** (U of Tokyo)  
*Cell-size confinement alters self-assembly of macromolecules: The secret of cell size*



**Sooyeon Kim** (iCeMS, Kyoto U)  
*Ultrasensitive bioanalyses based on single-molecule microscopic imaging*



**Kosuke Okeyoshi** (Japan Adv Inst of Sci and Tech)  
*Polymeric sol-gel designs inspired by phase transition in living systems*



**Yukako Oda** (Center for IPS Cell Res and Appl, Kyoto U)  
*Discovery of anti-inflammatory physiological peptides that assemble cell-cell adhesion factors*



**Masashi Tachikawa** (Sch of Sci, Yokohama City U)  
*Force balance and self-assembly: key concepts in organelle shaping*



**Ryo Suzuki** (CIMPhy, Inst for Adv Study, Kyoto U)  
*Active tissue deformation as a quantitative tool for the understanding of self-organisation in multi-cellular organisms - Development and disease -*



**Yuta Suzuki** (iCeMS / JST PRESTO)  
*Rational Design of Functional Protein Assembly Toward the Creation of Bionanorobots*

For more details  
on iCeMS website:



<http://tiny.cc/iis25>



Hosted by:  
Institute for Integrated  
Cell-Material Sciences  
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