

The SPIRITS International Symposium

-Materials and Methodology toward Unraveling Biological Systems-

3rd/March/2022 (Thu)

ONLINE & ONSITE iCeMS Main Building 2F Seminar Room, Kyoto University

Program

11:20-11:30: Opening Remarks: Jun Suzuki (Deputy Director of iCeMS)

11:30-13:00 Session 1, Chairperson: Hirohi Uji-i

11:30-12:00 Ruixuan Gao, U of Illinois Chicago

"Physical Expansion of Cells and Tissues: Development and Applications"

12:00-12:30 Satoshi Toda, Kanazawa U

"Programming Multicellular Pattern Formation with Synthetic Cell-cell Signaling"

12:30-13:00 Tomoko Yoshino, Tokyo U of Agriculture and Technology

"Technologies for Single-cell Transcriptomics of Circulating Tumor Cells"

13:00-14:00 Lunch break

14:00-15:30 Session 2, Chairperson: Shuhei Furukawa

14:00-14:30 Masahiko Yoshimura, Kyoto U iCeMS

"Sensing and Control of Plant Hormone Signaling"

14:30-15:00 Mako Kamiya, U of Tokyo

"Activatable Chemical Probes for Fluorescence Imaging of Cancer and Multicolor Raman Imaging of Plural Enzyme Activities"

15:00-15:30 Takanori Uzawa, RIKEN

"Visualization of Target Molecules in Live Cells using Fluorogenic Peptide Aptamers"

15:30-16:00 Coffee break

16:00-18:00 Session 3, Chairperson: Tomoko Inose

16:00-16:30 Eiji Yuba, Osaka Prefecture U

"Rational Design of Dendritic Molecule-Gold Nanorod Hybrids for Biomedical Applications"

16:30-17:00 Indra Van Zundert, KU Leuven

"The Development of a Multifunctional Drug Delivery System for Efficient Cancer Cell Targeting in 3D Cell Models"

17:00-17:30 Beatrice Fortuni, KU Leuven

"Engineering of Nanomaterials for Drug Delivery and Bio-Sensing"

17:30-18:00 Virginia Martínez-Martínez, UPV-EHU

"Functionalization of Photosensitized Silica Nanoparticles for Bioimaging and Photodynamic Therapy in Cancer Cells"

18:00-18:05 Closing remarks: Tomoko Inose