

The SPIRITS International Symposium

# Materials and Methodology toward Unraveling Biological Systems

March 3 2022, 11:20-18:00

ONLINE & ONSITE  
Kyoto U iCeMS Main Building  
2F Seminar Room

**Ruixuan Gao, U of Illinois Chicago (US)**

Physical Expansion of Cells and Tissues: Development and Applications

**Satoshi Toda, Kanazawa U**

Programming Multicellular Pattern Formation with Synthetic Cell-cell Signaling

**Tomoko Yoshino, Tokyo U of Agri&Tech**

Technologies for Single-cell Transcriptomics of Circulating Tumor Cells

**Masahiko Yoshimura, Kyoto U iCeMS**

Sensing and Control of Plant Hormone Signaling

**Mako Kamiya, U of Tokyo**

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

**Takanori Uzawa, RIKEN**

Visualization of Target Molecules in Live Cells using Fluorogenic Peptide Aptamers

**Eiji Yuba, Osaka Prefecture U**

Dendritic Molecule-Gold Nanorod Hybrids for Biomedical Applications

**Indra Van Zundert, KU Leuven (Belgium)**

Drug Delivery System for Efficient Cancer Cell Targeting in 3D Cell Models

**Beatrice Fortuni, KU Leuven (Belgium)**

Engineering of Nanomaterials for Drug Delivery and Bio-Sensing

**Virginia Martínez-Martínez, UPV-EHU (Spain)**

Photosensitized Silica Nanoparticles for Bioimaging and Photodynamic Therapy

Chair: Tomoko Inose, Kyoto U iCeMS

Co-Chair: Shuhei Furukawa, Kyoto U iCeMS

Contact: furukawa-g@icems.kyoto-u.ac.jp

Hosted by: Kyoto University Supporting Program for  
Interaction-Based Initiative Team Studies (SPIRITS)

Co-hosted by: Kyoto University Institute for  
Integrated Cell-Material Sciences (iCeMS)

Art: Kanon Tanaka  
Design: Science Manga Studio (2022)

**SPIRITS**  
SUPPORTING PROGRAM FOR INTERACTION-BASED  
INITIATIVE TEAM STUDIES

**iCeMS**  
KYOTO UNIVERSITY  
WPI Research Center

**Registration**  
is required

