

Probing Cells: Cutting-edge Advances in Chemical Tools and Imaging

ISBC2024 Satellite Symposium

Period: Monday, April 22, 2024 (9:55 – 17:00)

Venue: Mita Campus, Keio University (North Hall)

Presented by: Division of Biofunctional Chemistry, The Chemical Society of Japan

Program

9:55-10:00 AM **Welcome remarks Shin Mizukami (Tohoku Univ., Japan)**

Chair: Masayasu Taki (Nagoya Univ., Japan)

10:00-10:30 AM **Stefan Matile (Univ. of Geneva, Switzerland)**
“Translational Supramolecular Chemistry”

10:30-11:00 AM **Yoshimitsu Sagara (Tokyo Inst. of Technol., Japan)**
“Development and Functionalization of Supramolecular Mechanophores”

~ **Coffee break** ~

Chair: Mako Kamiya (Tokyo Inst. of Technol., Japan)

11:20-11:50 AM **Luke Lavis (Janelia Research Campus, USA)**
“From single-molecule imaging to the brain: A circuitous route to new neural activity indicators”

11:50-12:05 AM **Hisashi Ohno (Keio Univ., Japan)**
“Development of a near-infrared fluorescence probe for HOCl based on the phenyl-induced twisted intramolecular charge transfer (p-TICT) mechanism”

12:05-12:35 PM **Tasuku Hirayama (Gifu Pharm. Univ., Japan)**
“Fluorescent probes for live-cell imaging of labile iron and labile heme”

~ **Lunch time** ~

Chair: Satoshi Okada (Tokyo Inst. of Technol., Japan)

13:50-14:20 PM **Amandeep Kaur (Monash Univ., Australia)**
“Fluorescent approaches towards understanding protein aggregation”

14:20-14:35 PM **Hiroyoshi Fujioka (Tokyo Inst. of Technol. Univ., Japan)**
“Multicolor activatable Raman probes for detecting enzyme activities in live-cells or tissues”

14:35-15:05 PM **Shin Mizukami (Tohoku Univ., Japan)**
“Imaging and optical control based on protein labeling technology”

~ **Coffee break** ~

Chair: Yoshimitsu Sagara (Tokyo Inst. of Technol., Japan)

15:25-15:55 PM **Kenjiro Hanaoka (Keio Univ., Japan)**
“Development of fluorescence probes based on the twisted intramolecular charge transfer (TICT) mechanism”

15:55-16:25 PM **Satoshi Okada (Tokyo Inst. of Technol., Japan)**
“Molecular brain imaging based on MRI contrast agent-based probes”

16:25-16:55 PM **Mako Kamiya (Tokyo Inst. of Technol., Japan)**
“Modular Design Platform for Activatable Fluorescence Probes Targeting Carboxypeptidases Based on ProTide Chemistry”

16:55-17:00 PM **Closing remarks Kenjiro Hanaoka (Keio Univ., Japan)**

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Program QR Code