FY2020-2024 MEXT - KAKENHI -
Grant-in-Aid for Transformative Research Areas(A)
Biophysical Chemistry for Material Symbiosis

The International Symposium for Young Researchers: Towards a Future of Material Symbiosis

URL for the project: https://material-symbiosis.jp/en/

Date: October 27 (Sunday), 2024

Venue: Shirakashi Conference Room (Conference building 3F)

SENDAI International Center, Aobayama, Aoba-ku, Sendai, Japan

(https://www.aobayama.jp/english/)

Organizers: Dr. Koichiro UTO (Principal researcher, NIMS), Dr. Tomoko Hashimoto (Associate Professor, Shinshu University)

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13:00-13:05 Greetings

13:05-13:30 Invited talk 1 (A1-1): **Dr. Guo Haochen** (Kawasaki Innovation Center of NanoMedicine (iCONM))

Investigation of Labile Iron-Modulation in Tumor Microenvironment Using Polymeric Iron Chelators and Its Application for Cancer Therapies

13:30-13:55 Invited talk 2 (A2-1): **Dr. Yu Mikame** (Nagasaki University)

Development of photo-dynamic gene regulation tool

13:55-14:20 Invited talk 3 (A3-1): **Dr. Daisuke Takahashi** (Keio University)

Bridging Gut Immunity and Material Symbiosis: Insights from Microbiota-Induced T Follicular Helper Cells and IgA

14:20-14:40 Break

14:40-15:20 Keynote Lecture 1: **Prof. Zhaohui Tang** (Changchun Institute of Applied Chemistry, Chinese Academy of Sciences)

Tumor-targeted drug delivery based on vascular-disrupting agents

15:20-16:00 Keynote Lecture 2: **Prof. Won Jong Kim** (Pohang University of Science and Technology)

Control of Nitric Oxide for the treatment of inflammatory disease and cancer

16:00-16:25　Group Photo & Break

16:25-16:50　Invited talk 4 (A1-2): **Dr. Rintaro Takahashi** (Osaka University)
In situ monitoring of the vesicle formation by time-resolved small-angle X-ray scattering

16:50-17:15　Invited talk 5 (A2-2): **Dr. Chun Yin Lau** (The University of Tokyo)
Tuning supramolecular material dynamics for therapeutic delivery

17:15-17:40　Invited talk 6 (A3-2): **Dr. Kazufumi Kunimura** (Kyushu University)
Molecular Basis of Immune Privileged Environment at the Maternal-Fetal Interface

17:40　Closing

~Presentation~
Invited Lecture (by Young Scientists): 20 mins + Q&A 5 mins
Keynote Lecture: 30 mins + Q&A 10 mins (40 mins)