

The 4th International Symposium of Middle Molecular Strategy (ISMMS-4)

and

The 7th Innovative Area Symposium on Middle Molecular Strategy:
Creation of Higher Bio-Functional Molecules by Integrated Synthesis

November 30 and December 1, 2018
Katahira Sakura Hall, Tohoku University
Sendai, Japan

Grant-in-Aid for Scientific Research on Innovative Areas: Middle Molecular Strategy
Cooperation with Graduate School of Pharmaceutical Sciences in Tohoku University

Program

Nov30 (Fri)

- 13:00 **ILa-1** Ryan Gilmour (Westfälische Wilhelms-Universität Münster, Germany)
Exploiting Physical Organic Principles in Reaction Design
- 13:40 **ILb-1** Kazunobu Igawa, Yuuya Kawasaki, Runyan Ni, Yuuki Seto, Takeru Kashiwagi, Shin Aoyama, Naoto Mitsuda, Shintarou Kawahara, and Katsuhiko Tomooka (Kyushu University)
Multi-molecule Connectable DACN for Chemical Modification of Biomolecules
- 14:00 **ILb-2** Junko Ohkanda (Shinshu University)
Assembled Mid-sized Agents for Controlling Protein-protein Interactions
- 14:20 **ILb-3** Hirokazu Arimoto and Daiki Takahashi (Tohoku University)
Protein S-guanylation is a standalone tag for selective autophagy
- 14:40 Coffee break
- 15:00 **ILa-2** Yan-Mei Li (Tsinghua University, China)
Specifically Induce Tau Degradation by a PROTAC Peptide
- 15:40 **ILb-4** Yue Ma, Shogo Sasaki, Mizuho Yasuda, Yuki Wakabayashi, and Kazuo Nagasawa (Tokyo University of Agriculture and Technology)
Control of G-quadruplex Functions by Macrocyclic Hexaoxazoles
- 16:00 **ILb-5** Toshiyuki Hamura (Kwansei Gakuin University)
Efficient Access to Polycyclic Aromatic Compounds Using Reactive Molecules
- 16:20 **ILb-6** Masahiro Uwamori, Ryunosuke Osada, Ryuji Sugiyama, and Masahisa Nakada (Waseda University)
First Enantioselective Total Synthesis of Cotylenin A
- 16:40 Coffee break
- 17:00 **PL-1** William DeGrado (University of California, San Francisco, U.S.A.)
De novo protein design
- 18:00 – 20:00 poster session and mixer

Dec 1 (Sat)

- 9:00 **ILa-3** Motomu Kanai (The University of Tokyo)
Aerobic Oxygen-Driven Functionalizations of Proteins
- 9:40 **ILb-7** Ken Ohmori (Tokyo Institute of Technology)
Orthogonal Annulation Strategy, Enabling an Efficient Assembly of Doubly-Linked Oligoflavans
- 10:00 **ILb-8** Toshio Nishikawa, Yusuke Hanaki, Yusuke Araki, Yoshihiko Nokura, and Atsuo Nakazaki (Nagoya University)
Towards a Unified Synthesis of Aplysiatoxin and Oscillatoxin Family
- 10:20 **ILb-9** Satoshi Yokoshima (Nagoya University)
Synthetic Studies on Natural Products Isolated from *Haliclona* Species
- 10:40 Coffee break
- 11:00 **PL-2** Dale L. Boger (The Scripps Research Institute, U.S.A.)
Redesign of Vancomycin for Resistant Bacteria
- 12:00 Lunch / **Team Meeting** (registered only)
- 13:20 **ILb-10** Kosuke Namba (Tokushima University)
Practical Application of Mugineic Acids and Development into Middle Molecular Probe
- 13:40 **ILb-11** Makoto Yasuda (Osaka University)
Oxy/Carbometalation of C-C Multiple-bonds with Group 13 Metals
- 14:00 **ILb-12** Norio Shibata (Nagoya Institute of Technology)
Synthesis of Trifluoromethyl Heterocycles via Pd- π -benzyl Intermediates
- 14:20 **ILb-13** Iwao Hachiya, Shinya Fukumoto, Kazuki Ota, Kenta Nakamura, Isao Mizota, and Makoto Shimizu (Mie University)
Reactions of Imino Compounds Using a Flow System
- 14:40 **ILb-14** Shinobu Takizawa, H. D. P. Wathsala, Fernando A. Arteaga, Kenta Kishi and Hiroaki Sasai (Osaka University)
Enantioselective Rauhut–Currier Sequence Involving Desymmetrization of Cyclic Dienones

- 15:00 **ILb-15** Yasuhiro Uozumi (Institute for Molecular Science)
Recent Development of Flow Reaction Systems with Novel Polymeric
Catalysts
- 15:20 Closing