



TOHOKU
UNIVERSITY

Tohoku Forum for Creativity Thematic Program 2018
Frontier of Chemical Communication

The 2nd International Symposium on Chemical Communication

MAY 28 – 29, 2018

Aoba Science Hall

Aobayama-North Campus, Tohoku University
Sendai, Japan

Monday, May 28

13:00 Opening remark

13:10 – 14:00

**PL-1 Synthesis of Aureothin and
Aplykurodinone-1, C-H Oxidation as Key
Steps**

Dr. Michael de Paolis
COBRA, Université de Rouen, France

14:00 – 14:20

**IL-1 Aromatic-fused Silicon-silicon
Doubly Bonded Compounds**

Dr. Shintaro Ishida
Department of Chemistry, Graduate School of Science,
Tohoku University

Coffee break

14:40 – 15:30

PL-2 Structural Biology of Ion Pumps
Prof. Chikashi Toyoshima

Institute of Molecular and Cellular Biosciences,
The University of Tokyo, Japan

15:30 – 15:50

**IL-2 Development of Subtype-selective
Agonist for Phytohormone Co-receptor**

Dr. Yousuke Takaoka
Department of Chemistry, Graduate School of Science,
Tohoku University

Coffee break

16:10 – 16:30

**IL-3 Development of Natural
Product-Like Compound Library Based
on Diversity-Enhanced Extracts**

Dr. Haruhisa Kikuchi
Graduate School of Pharmaceutical Sciences,
Tohoku University

16:30 – 17:20

**PL-3 Identification of Inhibitors of
Protein-protein Interactions as Potential
Anticancer and Anti-inflammatory Agents**
Prof. Mark Searcey

Schools of Pharmacy and Chemistry,
University of East Anglia, UK

Tuesday, May 29

9:30 – 10:20

**PL-4 Single-Molecule Atomic-resolution
Real-Time (SMART) TEM Movies for
Chemical Research**

Prof. Eiichi Nakamura
Department of Chemistry, The University of Tokyo, Japan

10:20 – 10:40

**IL-4 Electrochemical Approach to
Protease Activity Assay**

Dr. Kumi Y. Inoue
Graduate School of Environmental Studies,
Tohoku University

Coffee break

11:00 – 11:50

**PL-5 Cationic Helicenes, Novel Synthetic
Approaches and Extended Applications**
Prof. Jérôme Lacour

Department of Organic Chemistry, University of Geneva,
Switzerland

Lunch

13:20 – 13:50

**IL-5 Development of Photofunctional Tools
Based on Chemistry and Biology**

Prof. Shin Mizukami
Institute of Multidisciplinary Research for Advanced
Materials, Tohoku University

13:50 – 14:10

**IL-6 Drug Design of Novel Glycopeptide
Antibiotics Based on Interaction Analysis**

Dr. Kaori Itto
Graduate School of Life Sciences, Tohoku University

14:10 – 15:00

**PL-6 Protein Chemistry in Multi-molecular
Crowding Biosystems**

Prof. Itaru Hamachi
Department of Synthetic Chemistry and Biological
Chemistry, Kyoto University, Japan

15:00 Closing remark

More details on

[http://www.tfc.tohoku.ac.jp/
program/2154.html](http://www.tfc.tohoku.ac.jp/program/2154.html)



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