

## Summer School 2015 Schedule

### Aug 26 (Wed) Laboratory tour in Tohoku University

|             |                 |
|-------------|-----------------|
| 12:30-17:00 | Laboratory tour |
| 19:00-21:00 | Welcome Party   |

### Aug 27 (Thu) Workshop

|             |                              |
|-------------|------------------------------|
| 09:00-09:15 | Opening Remarks              |
| 09:15-10:25 | Oral Sessions                |
| 10:25-10:40 | Coffee Break                 |
| 10:40-12:10 | Oral Sessions                |
| 12:10-13:15 | Lunch Break                  |
| 13:15-14:15 | Poster Session (Odd number)  |
| 14:15-15:15 | Poster Session (Even number) |
| 15:15-15:30 | Coffee Break                 |
| 15:30-16:55 | Oral Sessions                |
| 16:55-17:10 | Coffee Break                 |
| 17:10-18:25 | Oral Sessions                |
| 18:45-20:45 | Banquet                      |

### Aug 28 (Fri) Workshop

|             |                 |
|-------------|-----------------|
| 09:00-10:10 | Oral Sessions   |
| 10:10-10:25 | Coffee Break    |
| 10:25-11:55 | Oral Sessions   |
| 11:55-12:55 | Lunch Break     |
| 12:55-14:20 | Oral Sessions   |
| 14:20-14:35 | Coffee Break    |
| 14:35-15:20 | Oral Sessions   |
| 15:20-15:35 | Coffee Break    |
| 15:35-17:05 | Oral Sessions   |
| 17:05-17:25 | Coffee Break    |
| 17:25-18:30 | Oral Sessions   |
| 18:30-18:40 | Closing Remarks |
| 19:30-21:30 | Farewell Party  |

### Aug 29 (Sat) Excursion

|             |           |
|-------------|-----------|
| 11:00-17:00 | Excursion |
|-------------|-----------|

**August 27, 2015 (Thursday)**

**Opening Remarks** 9:00–9:15

9:00–9:05 Ms. Ayumi Watanabe (The Chairperson of the Summer School)

9:05–9:15 Prof. Takayuki Doi (Campus Asia Program Deputy Leader)

Chairperson (Lecture-1, O-1): Naohiko Akasaka (Iwamoto Lab.)

**Lecture-1** 9:15–9:55

**Transition-Metal-Catalyzed Synthesis of Organoheteroatom Compounds**

Mieko Arisawa

**O-1 (I)** 9:55–10:25

**Enantioselective and Regiodivergent Copper-Catalysed Electrophilic Arylation of Allylic Amides with Diaryliodonium Salts**

Henry Male, Elise Cahard, Matthieu Tissot, Matthew J. Gaunt

10:25–10:40 Coffee Break

Chairperson (O-2–O-5): Kenichi Okutsu (Misaizu Lab.)

**O-2 (I)** 10:40–11:10

**Radiation-Induced Defects in Si after High Dose Proton Irradiation**

Dmitrii A. Aparin, Yurii V. Funtikov, Leonid Yu. Dubov, Yurii V. Shtotsky, Sergey V. Stepanov

**O-3 (I)** 11:10–11:40

**Investigating a Binary Solvent Mixture at the Liquid-Solid Interface via Molecular Dynamics**

John J. Karnes, Ilan Benjamin

**O-4** 11:40–11:55

**Fabrication of Ultrafine Titanate Nanowires as Highly Efficient Ion Exchanger Using a Dealloying Method**

Yoshifumi Ishikawa, Susumu Tsukimoto, Koji S. Nakayama, Naoki Asao

**O-5** 11:55–12:10

**Novel separation method of vitamin E and free fatty acids using ion-exchange resin**

Kousuke Hiromori, Naomi Shibasaki-Kitakawa

12:10–13:15 Lunch Break

13:15–14:15 Poster Session (Odd Number)

14:15–15:15 Poster Session (Even Number)

15:15–15:30 Coffee Break

Chairperson (Lecture-2, O-6–O-7): Shohei Kumagai (Yamashita Lab.)

**Lecture-2** 15:30–16:10

**Synergy between Metal and Ligand for Molecular Probes Aimed at Biomedical Applications**

Nobuhiko Iki

**O-6** 16:10–16:25

**Formation of a Tungsten Complex Having a Metal–Silicon Triple Bond and Its Monomer-dimer Dissociation Equilibrium**

Takashi Yoshimoto, Hisako Hashimoto, Naoki Hayakawa, Tsukasa Matsuo, Hiromi Tobita

**O-7 (I)** 16:25–16:55

**Phenalenyl-fused Porphyrin Biradicaloids**

Wangdong Zeng, Sangsu Lee, Masatoshi Ishida, Ko Furukawa, Pan Hu, Zhe Sun, Dongho Kim, Jishan Wu

16:55–17:10 Coffee Break

Chairperson (O-8–O-11): Atsushi Umehara (Tokuyama Lab.)

**O-8** 17:10–17:25

**Identification of analogues and biosynthetic intermediates of tetrodotoxin aimed at elucidating its biosynthesis**

Yuta Kudo, Yoko Yamashita, Yuko Cho, Keiichi Konoki, Yotsu-Yamashita Mari

**O-9** 17:25–17:40

**Eu(OTf)<sub>3</sub>-Catalyzed Regioselective Ring Opening Reactions of Epoxy Alcohols: Application to the Synthesis of Bioactive Compounds**

Shun-ichiro Uesugi, Tsubasa Watanabe, Takamichi Imaizumi, Masatoshi Shibuya, Naoki Kanoh, Yoshiharu Iwabuchi

**O-10 (I)** 17:40–18:10

**Visible-Light-Induced, Enantioselective Reactions of  $\alpha$ -Aminoalkyl Radicals with  $\alpha,\beta$ -Unsaturated Oxindoles.**

Dominik Lenhart, Thorsten Bach

**O-11** 18:10–18:25

**Synthesis of Catechol Functional Group Contained Polysiloxane**

Yida Liu, Ali Demirci, Shunsuke Yamamoto, Tokuji Miyashita, Masaya Mitsuishi

18:45– Workshop Banquet at Cafeteria

**August 28, 2015 (Friday)**

Chairperson (Lecture-3, O-12–O-13): Kaoru Nakashima(Kono Lab.)

**Lecture-3** 9:00–9:40

**World of Oxide Electronics**

Tomoteru Fukumura

**O-12** 9:40–9:55

**IR laser induced photoelectron rescattering experiment on hydrocarbon molecules**

Yuta Ito, Misaki Okunishi, Wang Chuncheng, Robert R. Lucchese, Toru Morishita, Kiyoshi Ueda

**O-13** 9:55–10:10

**Investigating the Interatomic Coulombic Decay Process Induced by Two-photon Double Excitation in Ne Dimer Using XUV pump-UV probe Measurements**

Tsukasa Takanashi, Hironobu Fukuzawa, Koji Motomura, Denys Iablonskyi, Yoshiaki Kumagai, Subhendu Mondal, Tetsuya Tachibana, Toshiyuki Nishiyama, Kenji Matsunami, Kiyonobu Nagaya, Per Johnsson, Paolo Piseri, Giuseppe Sansone, Antoine Dubrouil, Maurizio Reduzzi, Paolo Carpeggiani, Caterina Vozzi, Michele Devetta, Matteo Negro, Davide Faccialà, Francesca Calegari, Andrea Trabattoni, Mattea C. Castrovilli, Yevheniy Ovcharenko, Marcel Mudrich, Frank Stienkemeier, Marcello Coreno, Michele Alagia, Bernd Schütte, Nora Berrah, Carlo Callegari, Oksana Plekan, Paola Finetti, Luca Giannessi, Carlo Spezzani, Eugenio Ferrari, Enrico Allaria, Giuseppe Penco, Claudio Serpico, Giovanni De Ninno, Bruno Diviacco, Simone Di Mitri, Kevin C. Prince, Makoto Yao, Nikolay V. Golubev, Philipp V. Demekhin, Lorenz S. Cederbaum, Alexander I. Kuleff, Kiyoshi Ueda

10:10–10:25 Coffee Break

Chairperson (O-14–O-17): Daiki Takahashi (Arimoto Lab.)

**O-14 (I)** 10:25–10:55

**Glutathione transport across the ER membrane**

Tomasz Szmaja, Professor Neil Bulleid, Dr Richard Hartley, Dr Marcel Van Lith

**O-15 (I)** 10:55–11:15  
**Preparation of novel biomaterials from linear-type and cyclomatrix-type polyphosphazenes**

Zhangjun Huang, Shuangshuang Chen, Xuemin Lu, Qinghua Lu

**O-16 (I)** 11:15–11:35  
**In Situ Growth of Polyphosphazene Nanoparticles Coating on Honeycomb Surface: Facilely Forming Hierarchical Structure for Bioapplication**

Shuangshuang Chen, Xuemin Lu, Zhangjun Huang, Qinghua Lu

**O-17 (I)** 11:35–11:55  
**4-arm PEG based polyurethane hydrogels with high strength and sensitivity to stimulus**

Haiyan Jia, Zhao Li, Xinling Wang, Zhen Zheng

11:55–12:55 Lunch Break

Chairperson (Lecture-4, O-18–O-19): Shunya Saito (Uozumi Lab.)

**Lecture-4** 12:55–13:35  
**Biotechnology meets inorganic nanomaterials**  
Mitsuo Umetsu

**O-18** 13:35–13:50  
**Observation of the Search Dynamics of p53 Mutants for the Target DNA Sequence by Single-molecule Fluorescence Microscopy**

Yuji Itoh, Agato Murata, Seiji Sakamoto, Kei Nanatani, Takehiko Wada, Satoshi Takahashi, Kiyoto Kamagata

**O-19 (I)** 13:50–14:20  
**Measuring translation rates *in vivo* by single molecule microscopy**

Arvid Hedén Gynnå, Johan Elf, Magnus Johansson

14:20–14:35 Coffee Break

Chairperson (O-20–O-22): Ryohei Uematsu (Wada Lab.)

O-20 14:35–14:50

**Fabrication of  $\pi$ -Conjugated Polymer Nanofibers and Their Formation Processes**

Chanon PORNRUNGROJ, Tsunenobu ONODERA, Hitoshi KASAI, Hidetoshi OIKAWA

O-21 14:50–15:05

**Investigation of the Roles of the Intrinsically Disordered Region of a Tumor Suppressor p53 in the DNA Binding**

Dwiky Rendra Graha Subekti, Agato Murata, Chihiro Igarashi, Yuji Ito, Satoshi Takahashi, Kiyoto Kamagata

O-22 15:05–15:20

**Supramolecular asymmetric photochirogenesis mediated by synthetic antibody: *In the ground and excited states interaction studies of synthetic antibody with 2-anthracenecarboxylate monomer and dimers***

Yospanya Wijak, Sakamoto Seiji, Araki Yasuyuki, Nishijima Masaki, Inoue Yoshihisa, Wada Takehiko

15:20–15:35 Coffee Break

Chairperson (O-23–O-26): Yuya Yoshii (Akutagawa Lab.)

O-23 (I) 15:35–16:05

**NMR Analysis of Terbium(III)–Phthalocyaninato Single Molecule Magnets**

Marko Damjanović, Takaumi Morita, Keiichi Katoh, Masahiro Yamashita, Markus Enders

O-24 (I) 16:05–16:20

**A novel time scale of dynamic heterogeneity in a supercooled liquid system**

SeokJin Moon, GyeHyun Park, Sang-Won Park, YounJoon Jung

O-25 16:20–16:35

**Relationship between Structural Flexibilities and Gas Adsorption Properties of One-Dimensional Copper(II) Polymers with Paddle-Wheel Units**

Kiyonori Takahashi, Norihisa Hoshino, Shin-ichiro Noro, Takayoshi Nakamura, Tomoyuki Akutagawa

**O-26 (I)** 16:35–17:05

**Xylem-Like Honeycomb Monoliths Constructed from Cellulose Nanofibers and Studies on the Monolith Component Control**

Zhengze Pan, Shinichiroh Iwamura, Takashi Sekiguchi, Akihiko Sato, Takashi Kyotani, Hiroto Nishihara, Quanhong Yang

17:05–17:25 Coffee Break

Chairperson (O-27–O-30): Kodai Yamazaki (Inomata Lab.)

**O-27** 17:25–17:40

**What are critical factors for highly cytotoxic smart antibody ?**

Aruto Sugiyama, Mitsuo Umetsu, Hikaru Nakazawa, Ryutaro Asano, Izumi Kumagai

**O-28** 17:40–17:55

**Fabrication of Nano-Prodrugs of cholesterol-modified SN-38 and their Anticancer Activities**

Yoshitaka Koseki, Yoshikazu Ikuta, Hidetoshi Oikawa, Hitoshi Kasai

**O-29 (I)** 17:55–18:15

**pH-Responsive Supramolecular Vesicles Assembled by Water-Soluble Pillar[5]arene of BODIPY Photosensitizer for Chemo-Photodynamic Dual Therapy**

Lu-Bo Meng, Dong-Qi Li, Chen Lin, Xiao-Yu Hu, Leyong Wang

**O-30** 18:15–18:30

**Copper(I) Stabilization in the Extracellular N-terminal Domain of Ctr4**

Mariko Okada, Takashi Miura, Takakazu Nakabayashi

**Closing Remarks** 18:30–18:40