

Program : Oral Presentations

May 23 (Mon)

16:30- Registration
18:00- Welcome Party (Gifu Miyako Hotel)

May 24 (Tue)

9:00- Opening Reception

Chair: Naoto Chatani

9:40-10:20 PL-1 **Scott E. Denmark**
Enantioselective Lewis Base Catalysis with Organoselenium Compounds
10:20-10:50 IL-01 **Stefan Ortgies, Christian Depken, René Rieger, Alexander Breder**
Carbophilic Activation and Oxidative Functionalization of Carbon–Carbon Multiple Bonds by means of Selenium-Catalysis

10:50-11:10 Break

Chair: Ying-Yeung Yeung

11:10-11:40 IL-02 **Thomas Wirth**
Selenium- and Sulfur–containing Molecules: Safe Synthesis and Selective Reactions

11:40-12:10 IL-03 **Jie Luo, Xiang Liu, Ruizhi Guo, Lihao Liao, Xuelin Zhang, Xiaodan Zhao**
Organoselenium-Catalyzed Functionalizations of Alkenes

12:10- Lunch

12:50-14:10 Poster Presentations

Chair: Koichi Ohe

14:20-14:35 OL-01 **Zhihai Ke, Ying-Yeung Yeung**
Lewis Basic Selenide Catalyzed Stereoselective Halogenation Reactions

14:35-14:50 OL-02 **Taniyuki Furuyama, Koh Satoh, Nagao Kobayashi**

Chalcogenide-Substituted Phthalocyanines: The Most Distorted
Phthalocyanines

14:50-15:05 OL-03

Jia-fei Poon, Vijay P. Singh, Jiajie Yan, Lars Engman

Alkyltelluro Substitution Improves the Radical-Trapping Capacity of
Aromatic Amines

15:05-15:20 OL-04

**Karolina Kamińska, Elzbieta Wojaczyńska, Luca Sancineto,
Claudio Santi**

New Chiral Diselenides Based on Azabicycloalkane Skeletons: Synthesis,
Applications, Biological Activity

Chair: Claudio Santi

15:25-15:40 OL-05

Takuya Hashimoto, Yu Kawamata, Keiji Maruoka

A Chiral Electrophilic Selenium Catalyst for Highly Enantioselective
Oxidative Cyclization

15:40-15:55 OL-06

Yuliia Velichenko, Carl H. Schiesser

The Development of Novel Dual-Acting Antihypertensives

15:55-16:10 OL-07

Shigeru Yamago, Weijia Fan, Yangtian Lu, Yasuyuki Nakamura

Macromolecular Engineering by Organotellurium-Mediated Radical
Polymerization (TERP)

16:10-16:25 OL-08

Michio Iwaoka, Kenta Arai

Modulation of Membrane Affinity of Water-Soluble Cyclic Selenides by
Modification with an Alkyl Chain

Chair: Akihiko Ishii

16:30-16:45 OL-09

Luca Sancineto, Luana Bagnoli, Francesca Marini, Claudio Santi

Synthesis of Functionalized Diaryl Diselenides and Their Ebselen-like
Derivatives as Novel Biologically Active Compounds

16:45-17:00 OL-10

Sho Kobayashi, Mao MINOURA

Synthesis, Structure and Reactivity of Tetraphenyltellurium Dication
Species

17:00-17:15 OL-11

Ajay Verma, Sangit Kumar

Diarylselenide and DMAP Catalyzed Regioselective Synthesis of
Medium-Sized Halolactones from Unactivated Alkenes

Chair: Yasumitsu Ogra

17:20-18:00 PL-2

Jun Zhou, Hongmei Liu, Kaixun Huang

Selenium and Diabetes - the Dual Function of Selenoprotein

May 25 (Wed)

Chair: Hisaaki Mihara

8:50-9:30 **PL-3**

Ick Young Kim

Selenoprotein W as a Putative Cellular Regulator

Chair: Antonio Braga

9:35-10:15 **PL-4**

Dwight Seferos

Tellurium and Selenium Based π -Conjugated Materials

10:15-10:45 **IL-04**

Claudio Santi

Water as a Convenient Medium for Organoselenium Chemistry

Chair: Govindasamy Mugesh

10:50-11:20 **IL-05**

Ludger Wessjohann

Selenium and Peptides - Synthetic, Medicinal and Analytic Encounters

11:20-11:50 **IL-06**

Hisaaki Mihara, Ryuta Tobe

Reduction of Selenium/Tellurium in Bacteria

11:55-12:35 **PL-5**

Vadim N. Gladyshev

Selenium, Selenoproteins and Selenoproteomes

13:10-

Excursion

19:00-

Ukai (Cormorant Fishing) Watching

May 26 (Thu)

Chair: Thomas Wirth

9:00-9:30 **IL-07**

Hiroataka Imai

GPx4 Depletion Induced Novel Lipid Peroxidation Dependent Cell Death and Disease

9:30-10:00 **IL-08**

Michael J. Davies

Organic Selenium Compounds and Related Species are Potent Oxidant Scavengers

10:00-10:20

Break

Chair: Kei Goto

10:20-10:50 IL-09

Wolfgang Weigand

[FeFe]-Hydrogenase Subunit Mimics Containing Selenium

10:50-11:20 IL-10

Tsutomu Minegishi, Kazunari Domen

Solar Hydrogen Production from Water on Chalcogenide Photocathodes

11:20-

Photography

11:40-

Lunch

12:20-13:40

Poster Presentations

Chair: Nobuaki Kambe

13:50-14:05 OL-12

Waro Nakanishi, Satoko Hayashi, Daisuke Nishi, Toshiaki Murai

⁷⁷Se NMR Spectra of Aromatic Selenoic, Selenothioic, and Diselenoic Acid Salts: Theoretical and Experimental Investigations

14:05-14:20 OL-13

Kentaro Okuma, Shuhei Yahata, Kahori Kage, Kazunori Munakata, Noriyoshi Nagahora, Kosei Shioji, Yuji Yamada

Synthesis of Δ^3 -1,3,4-Telluradiazolines and Ditellurides By the Reaction of Fenchone Hydrazone with Tellurium Tetrachloride

14:20-14:35 OL-14

Takahiro Sasamori, José Manuel Villalba Franco, Jing-Dong Guo, Koh Sugamata, Shigeru Nagase, Rainer Streubel, and Norihiro Tokitoh

Selenium-substituted Phosphaalkenes via 1,2-Elimination of Chlorosilanes from Selenenylchlorophosphines

14:35-14:50 OL-15

Raluca Mitea, Alexandra Pop, Anca Silvestru

Hypervalent Organoselenium Compounds with Alkoxy Functionalities and Their Coordination Behavior

Chair: Naoto Tamai

14:55-15:10 OL-16

Shailesh Kumar, Sangit Kumar

Multifaceted Antioxidants – Regenerable Radical-Trapping and Hydroperoxide Decomposing Ebselenols

15:10-15:25 OL-17

Tsukasa Nakahodo, Kenta Okazaki, Hisashi Fujihara

Synthesis and Properties of Cyclic Diaminoselenide Bearing Pyrene Unit

15:25-15:40 **OL-18** **Masaki Saruyama, Masanori Sakamoto, Toshiharu Teranishi**
Transformation of CdS Nanocrystals into CdS/CdTe Heterodimers through
the Partial Anion Exchange Reaction

15:40-15:55 **OL-19** **Tsukasa Torimoto, Yusuke Douke, Hiroko Shibakawa,**
Tatsuya Kameyama
Controllable Optical Properties of ZnSe-AgInSe₂ Solid Solution
Nanocrystals for the Application to Sensitized Solar Cells

Chair: Kazuaki Shimada

16:00-16:15 **OL-20** **Masanori Sakamoto, Makoto Okano, Masakai Saruyama,**
Yoshihiko Kanemitsu, Toshiharu Teranishi
Investigation on Light-stimulated Carrier Dynamics in CdS/CdTe
Nanopencils

16:15-16:30 **OL-21** **Kei Goto, Takafumi Karasaki, Shohei Sase**
Modeling of Reactive Intermediates Derived from Selenocysteines by
Utilizing Cavity-Shaped Molecular Cradles

16:30-16:45 **OL-22** **Fabian Mohr**
The Missing Link: Silver(I) Complexes with Selenourea Ligands

16:45-17:00 **OL-23** **Toshihiro Okamoto, Chikahiko Mitsui, Masakazu Yamagishi, Daisuke**
Hashizume, Hiroyasu Sato, Akihito Yamano, Jun Takeya
Selenium-bridged Binaphthalene-based Organic Semiconductors Exhibiting
a Unique Structural Transition

Chair: Peter Laur

17:05-17:45 **PL-6** **Yohsuke Yamamoto**
Preparation of Hypervalent Group-16 Radicals and Their Application in
Organic-Radical Batteries

17:45-18:10 **SL-1** **Wolfgang Gunther**
Overview of ICCST-13

19:00-21:00 Banquet

May 27 (Fri)

Chair: Yoshio Aso

9:00-9:30 **IL-11** **Ajai Kumar Singh**

Chalcogen and Organochalcogen Based Metal Catalysts for Organic Reactions

9:30-10:00 IL-12

Jan J. Weigand

Synthesis of Cationic Phosphorus-selenium Cage Compounds

10:00-10:20

Break

Chair: Tsukasa Torimoto

10:20-10:50 IL-13

Naoto Tamai

Multi-exciton Dynamics and Carrier Transfer in CdTe and CdSe Nanocrystals

10:50-11:20 IL-14

Ping Yang, Ling Chen, Yingying Du, Simin Lu, Meng Li

Synthesis, Surface Modification and Applications of Highly Luminescent II-VI QDs

11:20-11:30

Break

Chair: Toshiharu Teranishi

11:30-12:00 IL-15

Celso de Mello Donega

Metal Chalcogenide Nanocrystals: New Materials with Tailored Optoelectronic Properties

12:00-12:30 IL-16

P. Davide Cozzoli

Plasmonic-Semiconductor Nanocrystals of Copper and Tungsten Chalcogenides: Colloidal Synthesis, Optical Properties and Their Conversion to Nanostructures of Other Functional Materials

12:30-13:30

Lunch

Chair: Mao Minoura

13:30-14:00 IL-17

David Churchill

Reversible Organoselenium-based ROS Fluorescent Probes and Related Chemistry

14:00-14:30 IL-18

Vimal K. Jain, Siddhartha Kolay, Amey Wadawale, Dasarathi Das

Cyclometalation of Heavier Chalcogen Ligands

14:30-15:00 IL-19

Eric Rivard, William Torres Delgado, Michael Boone, Olena Shynkaruk, Gang He

Recent Discoveries in the Field of Phosphorescent Tellurophenes

Chair: Toshiaki Murai

15:05-15:45 **PL-7**

Vito Lippolis

Peculiarities and Recurrences in the Reactivity of Heterocyclic Pentaatomic Selenoamides towards Halogens and Inter-halogens

15:50-16:10

Closing Remarks