

Schedule

May 17 (Thursday)

- 08:00 – 09:00 Molecular Chirality ASIA 2012 Registration
- 09:00 – 09:05 Opening Speech
- 09:05 – 10:25 Chairperson: Toshikazu Takata (Tokyo Institute of Technology)
- OP-01** Yuichi Kitamoto (Tohoku University, Japan)
 - OP-02** Nozomi Saito (Tohoku University, Japan)
 - IL-01** Kyu-Sung Jeong (Yonsei University, Korea)
- 10:25 – 10:40 Break
- 10:40 – 12:00 Chairperson: Kenji Monde (Hokkaido University)
- OP-03** Takunori Harada (Toho University, Japan)
 - OP-04** Tadashi Mori (Osaka University, Japan)
 - IL-02** Gerard Roelfes (University of Groningen, The Netherlands)
- 12:00 – 13:00 Lunch Break
- 13:00 – 14:30 Poster (odd number)
- 14:30 – 15:50 Chairperson: Eiji Yashima (Nagoya University)
- OP-05** Yuuya Nagata (Kyoto University, Japan)
 - OP-06** Hiroyuki Miyake (Osaka City University, Japan)
 - IL-03** Xinhua Wan (Peking University, China)
- 15:50 – 16:05 Break
- 16:05 – 17:25 Chairperson: Koichi Tanaka (Kansai University)
- OP-07** Masami Sakamoto (Chiba University, Japan)
 - OP-08** Yonggang Yang (Soochow University, China)
 - IL-04** Myung Ho Hyun (Pusan National University, Korea)
- 17:35 – 18:10 MC Award Ceremony (Award Lecture)
- 18:30 – 20:30 Banquet

May 18 (Friday)

- 09:00 – 10:20 Chairperson: Kenji Hamase (Kyushu University)
OP-09 Shizuo Narimatsu (Okayama University, Japan)
OP-10 Chunhong Zhang (Harbin Engineering University, China)
IL-05 Hiroshi Homma (Kitasato University, Japan)
- 10:20 – 10:35 Break
- 10:35 – 11:55 Chairperson: Motomu Kanai (The University of Tokyo)
OP-11 Yasuhiro Kawanami (Kagawa University, Japan)
OP-12 Suman. C. Mohanta (Osaka University, Japan)
IL-06 Masahiro Terada (Tohoku University, Japan)
- 11:55 – 13:00 Lunch Break
- 13:00 – 14:30 Poster (even number)
- 14:30 – 15:30 Chairperson: Hiroaki Sasai (Osaka University)
OP-13 Reiko Kuroda (Tokyo University of Science, Japan)
IL-07 Ivan Huc (University of Bordeaux – CNRS, France)
- 15:30 – 15:45 Break
- 15:45 – 16:05 Chairperson: Reiko Kuroda (Tokyo University of Science)
OP-14 Kenji Monde (Hokkaido University, Japan)
IL-08 Shunai Che (Shanghai Jiao Tong University, China)
- 16:45 – 17:15 Closing Remarks (Poster Presentation Award Ceremony)

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08:00 – 09:00 Molecular Chirality ASIA 2012 Registration

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09:05 – 10:25 Chairperson: Toshikazu Takata (Tokyo Institute of Technology)

09:05 – 09:25 Oral Presentation-01 (OP-01)

“Control of Stereoselectivity by the Dielectric Constant of Solvent in Lipase-Catalyzed Kinetic Resolution” Yuichi Kitamoto, Naoya Morohashi, Tetsutaro Hattori (*Department of Biomolecular Engineering, Graduate school of Engineering, Tohoku University, Japan*)

09:25 – 09:45 Oral Presentation-02 (OP-02)

“Hetero-double-helix and Higher Assembly Formation of Pseudoenantiomeric Ethynylhelicene Oligomers” Nozomi Saito, Masanori Shigeno, Masahiko Yamaguchi (*Department of Organic Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Japan*)

09:45 – 10:25 Invited Lecture-01 (IL-01)

“Induction and Modulation of Helical Structures by Anion Binding” Kyu-Sung Jeong (*Department of Chemistry, Yonsei University, Korea*)

10:25 – 10:40 Break

10:40 – 12:00 Chairperson: Kenji Monde (Hokkaido University)

10:40 – 11:00 Oral Presentation-03 (OP-03)

“Solid-state circularly polarized luminescence measurements analyzed by Stokes-Mueller matrix method” Takunori Harada,¹ Mai Kurihara,¹ Reiko Kuroda,² Hiroshi Moriyama¹ (¹*Department of Chemistry, Faculty of Science, Toho University,* ²*Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, Japan*)

11:00 – 11:20 Oral Presentation-04 (OP-04)

“Circular Dichroisms of Helicenes. A Combined Theoretical and Experimental Study.” Yoshito Nakai, Tadashi Mori, Yoshihisa Inoue (*Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Japan*)

11:20 – 12:00 Invited Lecture-02 (**IL-02**)

“DNA-Based Asymmetric Catalysis” Gerard Roelfes (*Stratingh Institute for Chemistry, University of Groningen, The Netherlands*)

12:00 – 13:00 Lunch Break

13:00 – 14:30 Poster (odd number)

14:30 – 15:50 Chairperson: Eiji Yashima (Nagoya University)

14:30 – 14:50 Oral Presentation-05 (**OP-05**)

“Helix Sense Selectivities of Poly(quinoxaline-2,3-diyl)s and Their Selective Reflections of Visible Light” Yuuya Nagata,¹ Keisuke Takagi,¹ Syun Tanaka,¹ Michinori Suginome^{1,2} (*¹Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, ²JST, CREST, Japan*)

14:50 – 15:10 Oral Presentation-06 (**OP-06**)

“Synthesis of a Diastereomer Pair of Square Planar Palladium(II) Complex and its Helicity Inversion” Hiroyuki Miyake,¹ Masashi Ueda,¹ Saori Murota,¹ Hiroshi Tsukube^{1,2} (*¹Department of Chemistry, Graduate School of Science, Osaka City University, ²JST-CREST, Japan*)

15:10 – 15:50 Invited Lecture-03 (**IL-03**)

“Chiral Teleinduction and Amplification in Helix-Sense-Selective Polymerization of Vinyl Aromatic Monomers” Xinhua Wan (*Beijing National Laboratory for Molecular Sciences, Key Laboratory of Polymer Chemistry and Physics of Ministry of Education, College of Chemistry and Molecular Engineering, Peking University, China*)

15:50 – 16:05 Break

16:05 – 17:25 Chairperson: Koichi Tanaka (Kansai University)

16:05 – 16:25 Oral Presentation-07 (**OP-07**)

“Chiral Induction Using Preferential Crystallization Involving Photoracemization” Masami Sakamoto, Fumitoshi Yagishita, Takashi Mino, Tsutomu Fujita (*Department of Applied Chemistry and Biotechnology, Graduate School of Engineering, Chiba University, Japan*)

16:25 – 16:45 Oral Presentation-08 (**OP-08**)

“Chiral Transfer at Nano and Angstrom levels” Yonggang Yang, Yi Li, Baozong Li (*College of*

Chemistry, Chemical Engineering and Materials Science, Soochow University, P. R. China)

16:45 – 17:25 Invited Lecture-04 (**IL-04**)

“Development of Crown Ether-Based Chiral Stationary Phases” Myung Ho Hyun (*Department of Chemistry, Pusan national University, Korea*)

17:35 – 18:10 MC Award Ceremony (Award Lecture)

18:30 – 20:30 Banquet

May 18 (Friday)

09:00 – 10:20 Chairperson: Kenji Hamase (Kyushu University)

09:00 – 09:20 Oral Presentation-09 (**OP-09**)

“Regioselectivity in the Oxidation of 7-Ethoxy-4-trifluoromethylcoumarin, Bupropion and Efavirenz by Common Marmoset and Human CYP2B6s” Shizuo Narimatsu,¹ Kei Mayumi,¹ Nobumitsu Hanioka,¹ Kazufumi Masuda,² Akiko Koeda,³ Shinsaku Naito⁴, Atsuro Miyata⁵ (¹*Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University*, ²*School of pharmacy, Shujitsu University*, ³*Ina Research Inc.*, ⁴*Otsuka Pharmaceutical Factory, Inc.*, ⁵*Graduate School of Medicine and Dentistry, Kagoshima University, Japan*)

09:20 – 09:40 Oral Presentation-10 (**OP-10**)

“Synthesis and Chiral Recognition Ability of Novel Helical Poly(phenylacetylene)s as Chiral Stationary Phases for HPLC” Chunhong Zhang,¹ Qianqian Geng,¹ Hailun Wang,¹ Xiande Shen,¹ Yoshio Okamoto^{1,2} (¹*Polymer Materials Research Center, College of Materials Science and Chemical Engineering, Harbin Engineering University, China*, ²*Nagoya University, Japan*)

09:40 – 10:20 Invited Lecture-05 (**IL-05**)

“Physiological functions of D-amino acids” Hiroshi Homma (*Kitasato University, Japan*)

10:20 – 10:35 Break

10:35 – 11:55 Chairperson: Motomu Kanai (The University of Tokyo)

10:35 – 10:55 Oral Presentation-11 (**OP-11**)

“Catalytic Asymmetric Reduction of Trifluoromethyl Ketones Using Chiral Lactam Alcohol” Yasuhiro Kawanami, Wataru Tsunoi, Yuki harauchi (*Department of Applied Biological Science, Faculty of Agriculture, Kagawa University, Japan*)

10:55 – 11:15 Oral Presentation-12 (**OP-12**)

“Enantioselective Oxidative Cyclization/Carboxylation Sequence of Alkynyl Cyclohexadienones Catalyzed by Pd-SPRIX: Carboxylation of Pd-enolate Intermediate” Suman. C. Mohanta, Kazuhiro Takenaka, Shinobu Takizawa, Hiroaki Sasai (*The Institute of Scientific and Industrial Research, Osaka University, Japan*)

11:15 – 11:55 Invited Lecture-06 (**IL-06**)

“Enantioselective Carbon-Carbon Bond Forming Reactions Catalyzed by Chiral Phosphoric Acids”

Masahiro Terada (*Department of Chemistry, Tohoku University, Japan*)

11:55 – 13:00 Lunch Break

13:00 – 14:30 Poster (even number)

14:30 – 15:30 Chairperson: Hiroaki Sasai (Osaka University)

14:30 – 14:50 Oral Presentation-13 (**OP-13**)

“Chirality control of peptide helices (1)” Naoki Ousaka,¹ Morihiko Fukuda,² Reiko Kuroda^{1,2,3,4}
(¹*Japan Science and Technology Agency, ERATO-SORST Kuroda Chirormorphology Team,*
²*Department of Biophysics and Biochemistry, Graduate School of Science, The University of Tokyo,*
³*Department of Life Science, Graduate School of Arts and Sciences, The University of Tokyo,*
⁴*Research Institute for Science & Technology. Tokyo University of Science, Japan*)

14:50 – 15:30 Invited Lecture-07 (**IL-07**)

“Molecular Engineering of Helical Nanoarchitectures” Ivan Huc (*European Institute of Chemistry and Biology, University of Bordeaux – CNRS, France*)

15:30 – 15:45 Break

15:45 – 16:05 Chairperson: Reiko Kuroda (Tokyo University of Science)

15:45 – 16:05 Oral Presentation-14 (**OP-14**)

“Exciton Chirality Method in Vibrational Circular Dichroism” Tohru Taniguchi,¹ Daisuke Manai,² Masataka Shibata,² Masumi Fukuzawa,² Kenji Monde¹ (¹*Faculty of Advanced Life Science,*
²*Graduate School of Life Science, Frontier Research Center for Post-Genome Science and Technology, Hokkaido University, Japan*)

16:05 – 16:45 Invited Lecture-08 (**IL-08**)

“Chiral Mesoporous Materials” Shunai Che, Junjie Xie, Yingying Duan, Ben Liu, Yuanyuan Cao
(*School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University, P. R. China*)

16:45 – 17:15 Closing Remarks (Poster Presentation Award Ceremony)