Program

Aug. 26 (Mon)

Room A

15:00-15:15 ***Opening Ceremony***

15:15-16:05 **PL01** **Scott E. Denmark**
Application of Chemoinformatics and Machine Learning to Enantioselective Catalysis
Chair: James W. Canary

16:15-16:30 ***Award Ceremony***

16:30-17:30 **AW01** **Nicholas A. Kotov**
Chiral Nanostructures
Chair: Bart Kahr

18:30-20:30 ***Reception @Mariage Grande***

Aug. 27 (Tue)

Room A

9:00-9:50 **PL02** **Ivan I. Smalyukh**
Knotted Chiral Meta Matter
Chair: Reiko Oda

Chair: Jeanne Crassous

10:00-10:30 **KN01** **Yuxi Fang, Yingying Duan, Lu Han, Shunai Che**
Chiral Mesostructured Inorganic Materials with CISS-based Various Chiral Anisotropy

10:30-11:00 **KN02** **Yitzhak Mastai**
Hybrid Inorganic/Organic Chiral Thin Films by molecular layer deposition.

11:00-11:30 **KN03** **Lorenzo Di Bari**
3D and 2D chirality as the source of conspicuous chiroptical properties

—Poster Session A and Lunch—

Chair: Lorenzo Di Bari

14:10-14:40 **KN04** **Kenji Hamase**
Multi-dimensional and enantioselective HPLC analysis of amino acids and related compounds for the discovery of biomarkers and functional molecules

14:40-15:00 **OA01** **Christopher J. Welch**
Enhanced Structure-Based Prediction of Chiral Stationary Phases for Chromatographic Enantioseparation from 3D Molecular Conformations

15:00-15:30 **KN05** **Reiko Kuroda**
How does a single gene determine snail chirality through the biological hierarchy, from the fertilized egg to the individual organism?

—Coffee Break—

Chair: Xinhua Wan

15:50-16:20 **KN06** **Borja Hermida, Daniel Navarro, Helena Landín, Rafael Rodríguez, Emilio Quiñoá, Félix Freire**
Stimuli-Responsive Helical Polymers: Helix Induction Mechanisms

16:20-16:50 **KN07** **Matthieu Raynal**
Supramolecular helical catalysts: chirality induction and commutability

16:50-17:10 **OA02** **Tomoyuki Ikai, Wei Zheng, Kosuke Oki, Ranajit Saha, Yuh Hijikata, Eiji Yashima**
One-Handed Helical Tubular Ladder Polymers with a π-Electron-Rich Cylindrical Helical Cavity for Chromatographic Enantioseparation

17:20-18:10 **PL03** **Tamio Hayashi**
Recent Advances in Rhodium-Catalyzed Asymmetric Arylation

Chair: Hiroaki Sasai

Room B

Chair: Ryo Shintani

10:00-10:20 **OB01** **Masamichi Ogasawara**
Asymmetric Metathesis Dimerization of Planar-Chiral/Planar-Prochiral Vinylferrocenes

10:20-10:40 **OB02** **Shuhei Ohmura, Hayato Akao, Kazuaki Ishihara**
Development of Chiral Iron(III) Photoredox Catalysts for Enantioselective Radical Cation (4+2) Cycloaddition toward Natural Product Synthesis

10:40-11:00 **OB03** **Yuri Takagi, Ryoya Tajima, Takaaki Saito, Natsuki Mizuno, Takayoshi Arai**
Gearing Effects of Substituents on PyBidine-Metal–Catalyzed Asymmetric Reactions

11:00-11:20 **OB04** **Yuta Nakagawa, Naoki Watari, Tatsuya Uchida**
Preparation of optically pure H/D isotopic chiral molecule from its racemic mixture via asymmetric C–H functionalization

11:20-11:40 **OB05** **Suguru Matsuoka, Eri Soga, Tomoki Ozaki, Kazunobu Igawa, Kohei Ogawa, Yuki Yoshida, Shusaku Asano, Michiya Fujiki, Katsuhiko Tomooka, Toshiyuki Hamura**
Synthesis and Chiral Properties of (1,10)-Anthracenophane

—Poster Session A and Lunch—

12:30-13:10 ***Lunch Seminar (Shimadzu Corporation)***

Shinnosuke Horie
Benefits of fully automated HPLC/SFC switching system for enantiomeric separations

Chair: Naoki Ishida

14:10-14:30 **OB06** **Kazunobu Igawa, Katsuhiko Tomooka**
Asymmetric Synthesis of Functionalized Chiral Silicon Molecules

14:30-14:50 **OB07** **Yoshihiro Sohtome, Mikiko Sodeoka**
Dynamic Catalytic Diastereoconvergent (3 + 2) Cycloaddition of alpha-Keto Ester Enolates with Isomerizable Nitrones

14:50-15:10 **OB08** **Masahiro Terada, Taishi Nakanishi**
Computational Molecular Refinement to Enhance Enantioselectivity by Reinforcing Hydrogen Bonding Interactions in Major Reaction Pathway

15:10-15:30 **OB09** **Yuuya Kawasaki, Kazunobu Igawa, Katsuhiko Tomooka**
Preparation of Enantioenriched Chiral Molecules based on DYASIN

—Coffee Break—

Chair: Kenji Monde

15:50-16:10 **OB10** **Ina Varfaj, Magdaléna Labíková, Andrea Carotti, Roccaldo Sardella, Jiří Svoboda, Wolfgang Lindner, Leonid Asnin, Michal Kohout**
Advances in the design of ion exchange-type chiral stationary phases and understanding of their chiral recognition mechanisms

16:10-16:30 **OB11** **Xiao Dai, Fan Wang, Jun Shen, Yoshio Okamoto**
Polysaccharide Derivatives Bearing Bulky Pendants for High-Efficient Enantioselective Fluorescent Sensing

16:30-16:50 **OB12** **Anka Hagelschuer, Damián Padín, Vanda Dašková, Ben L. Feringa**
Uncovering the Self-Enantioresolving Properties of Chiral Amine Derivatives. Applications in Asymmetric Synthesis and Catalysis

16:50-17:10 **OB13** **Takashi Kikuchi, Hiroyasu Sato, Takashi Matsumoto, Keiyo Nakai, Mitsuhisa Yamano**
Electron Diffraction Crystallography (MicroED) for Absolute Structure Determination from Nanometer-sized Crystal Samples

Aug. 28 (Wed)

Room A

9:00-9:50 **PL04** **Minghua Liu**
Supramolecular chirality and circularly polarized luminescence in nanoassemblies

Chair: Félix Freire

Chair: Takeharu Haino

10:00-10:30 **KN08** **Bart Kahr, Miriam Rossi**
L'inversione di Walden: Primo Levi's Undergraduate Thesis

10:30-11:00 **KN09** **Xinhua Wan**
Revisiting Pasteur's Separation Experiment

11:00-11:20 **OA03** **Sjoerd W. van Dongen, Anne-Sophie Léonard, Willem L. Noorduin**
Chiral amplification during crystallization

11:20-11:40 **OA04** **S. Furkan Ozturk**
A New Spin on the Origin of Biological Homochirality

—Poster Session B and Lunch—

Chair: Toru Asashi

14:10-14:40 **KN10** **Jeanne Crassous**
Chirality and multifunctionality in helicene-based chemical platforms

14:40-15:10 **KN11** **Reiko Oda**
Interplay between order and disorder for the chirality expression in mesoscopic and hierarchical chiral objects

15:10-15:40 **KN12** **Mark J. MacLachlan**
Responsive Photonic Materials from the Chiral Assembly of Cellulose Nanocrystals

—Coffee Break—

16:00-16:20 ***Award Ceremony***

16:20-17:20 **AW02** **Katsuhiro Maeda**
Precise Synthesis of Helical Polyacetylenes and Their Unique Functions as Chiral Materials
Chair: Toshikazu Takata

18:30-21:00 ***Banquet @Hotel Granvia Kyoto***

Room B

Chair: Katsuhiro Maeda

10:00-10:20 **OB14** **Wei Xu, Ayami Takeda, Naoya Kumagai**
Quinoline-Based Oligoamides Featuring Helical Folding

10:20-10:40 **OB15** **Julian Bergueiro, Jose María Martínez-Parra, Rebeca Gómez-Ojea, Alejandro Fiel, Fernando Bordallo, Javier Montenegro**
α-Helical Chiral Exo-Topologies in Peptide Assembly

10:40-11:00 **OB16** **Fumio Sanda, Mio Hosotani, Taichi Sotani, Hiromitsu Sogawa**
Synthesis of Bipyridine-Containing Optically Active π-Conjugated Polymers Derived from Amino Alcohols

11:00-11:20 **OB17** **Siliang Cai, Yihan Huang, Sheng Wang, Jie Zhang, Xinhua Wan**
Allosteric Self-assembly of Amphiphilic Helical Poly(phenylacetylene)s

11:20-11:40 **OB18** **Mohamed I.A. Ibrahim, Mahmoud E. Esmael, Abdelrahman M. Khattab, Koichi Matsuo**
Polyhydroxyalkanoates: Production, Identification, and Characterization with Insights from Circular Dichroism

—Poster Session B and Lunch—

Chair: Yasuhiro Morisaki

14:10-14:30 **OB19** **Yoshiaki Shoji, Takanori Fukushima**
Boron-Mediated C–C Bond Formation Reactions for the Construction of Three-Dimensional Chiral Molecular Frameworks

14:30-14:50 **OB20** **Mihoko Yamada, Masato Nishi, Pablo Reine, Shouhei Katao, Yoshiko Nishikawa, Takuya Nakashima, Tsuyoshi Kawai**
Photochromism of a Tetrathiazole-based Bis-terpyridine Folded Ligand with Chirality and its Iron(II) Complex

14:50-15:10 **OB21** **Tadashi Mori**
Exploring Symmetry's Role in the Chiroptical Properties of Double Helicenes

15:10-15:30 **OB22** **Kenichi Kato, Tomoya Kaneda, Shunsuke Ohtani, Tomoki Ogoshi**
Alignment of Chirality and Conformations in Pillar[n]arenes

Aug. 29 (Thu)

Room A

Chair: Tadashi Ema

9:00-9:30 **KN13** **Shiki Yagai**
Inversion of Supramolecular Chirality of an Azobenzene Dimer by Photo-Regulated Supramolecular Polymerization Condition and Nucleation Kinetics

9:30-10:00 **KN14** **Tomoki Ogoshi**
Chiral Supramolecular Assemblies Based on Planar-Chiral Pillar[*n*]arenes

—Coffee Break—

Chair: Kazuhiko Saigo

10:20-10:40 **OA05** **Takeharu Haino**
Helical Supramolecular Polymer of Tetrakisporphyrin with Controlled Handedness

10:40-11:00 **OA06** **Attila Mándi, Sándor Balázs Király, Máté Kicsák, Tibor Kurtán**
Domino cyclization reactions and chiroptical analysis of heterocycles

11:00-11:30 **KN15** **Takashi Ooi**
Toward Catalytic Control of Photoinduced Radical Reactions

11:50-12:40 **PL05** **Chulbom Lee**
Total Synthesis of Complex Natural Products via Novel Catalysis

Chair: Katsuhiko Tomooka

12:40-13:00 ***Closing Ceremony***

Room B

Chair: Reiko Kuroda

9:00-9:20 **OB23** **Hiroshi Izumi, Laurence A. Nafie, Rina K. Dukor**
Supersecondary Structure Code for Conformational Analysis of Protein and RNA Molecules

9:20-9:40 **OB24** **Jérémie Topin, Matej Hladiš, Maxence Lalis, Samar Abi Khalil, Sébastien Fiorucci**
How chirality affects the sense of smell ? A study by a combination of AI and sensory analysis.

9:40-10:00 **OB25** **Aihua Qu, Maozhong Sun, Liguang Xu, Hua Kuang, Chuanlai Xu**
Chiral nano-adjuvants and interorgan immune regulation

—Coffee Break—

Chair: Katsuya Inoue

10:20-10:40 **OB26** **Vanessa Leyva, Jana Bocková, Manuel Robert, Adrien Garcia, Jérémie Topin, Nykola C. Jones, Søren V. Hoffmann, Cornelia Meinert**
Is the Enantiomeric Excess in Meteorites (*truly*) the Missing Link to Understanding Biomolecular Homochirality?

10:40-11:00 **OB27** **Agnes Banreti, Shayon Bhattacharya, Frank Wien, Damien Thompson, Stéphane Noselli**
Biological Effects of the Loss of Homochirality in a Multicellular Organism

11:00-11:20 **OB28** **Jatish Kumar**
Circular Dichroism and Circularly Polarized Luminescence in Optically Active Downconversion and Upconversion Nanoparticles

11:20-11:40 **OB29** **Ventsislav K. Valev**
Hyper-Raman optical activity: predicted in 1979 and demonstrated 45 years later