

DAILY PROGRAM OF MACOS, AUG. 25TH

- 8:30-8:50 **Registration**
- 8:50-9:00 **Opening Remarks from Chairman**
- Chair: Hideki Yorimitsu** (Kyoto University)
- 9:00-9:30 **SL-01 David J. Procter** (University of Manchester)
New Cross-Couplings Mediated by Sulfoxides
- 9:30-10:00 **SL-02 Chin-Fa Lee** (National Chung Hsing University)
Copper-Catalyzed Cross-Coupling of Thiols with Unactivated Aryl Chlorides
- 10:00-10:30 **SL-03 Koji Hirano** (Osaka University)
Phosphination of Alkenes and Alkynes with Phosphinyl Radicals and Phosphenium Cations of Unique Reactivity
- 10:30-10:50 **Break**
- Chair: Nuno Maulide** (University of Vienna)
- 10:50-11:20 **SL-04 Michael Willis** (University of Oxford)
New Reagents for Heterocycle Coupling Reactions
- 11:20-11:50 **SL-05 Manuel Alcarazo** (Georg-August-University Göttingen)
 α -Cationic Phosphines and Arsines: Synthesis and Applications
- 11:50-12:05 **IL-01 Naoki Ishida** (Kyoto University)
Synthetic Approach to Benzocyclobutenones Using Visible Light and a Phosphonate Auxiliary
- 12:05-12:20 **IL-02 Takashi Niwa** (RIKEN Center for Biosystems Dynamics Researches)
Synthesis of a Fluoroalkene Mimic of an Amide Drug via Copper-Catalyzed Defluoroborylation of (2,2-Difluorovinyl)arenes
- 12:20-13:00 **Lunch and Poster Session**
- 13:00-14:00 **Poster Session**
- 14:00-14:10 **Arrange**
- Chair: Koji Hirano** (Osaka University)
- 14:10-14:40 **SL-06 Nuno Maulide** (University of Vienna)
The beautiful simplicity of rearrangements: sulfur as a versatile element

- 14:40-15:10 **SL-07 Toshifumi Dohi** (Ritsumeikan University)
Oxidative Coupling Using μ -Oxo Hypervalent Iodine Reagent
- 15:10-15:25 **IL-03 Yusuke Kobayashi** (Kyoto University)
Organocatalytic Direct N-Glycosylation of Amides with Glycosyl Trichloroacetimidates
- 15:25-15:40 **IL-04 Yoshihiro Miyake** (Nagoya University)
Diversity-Oriented Synthesis of Hetero[8]circulenes through Direct C-H Borylation of Tetrathienylene
- 15:40-16:00 **Break**
- Chair: Jun Shimokawa** (Kyoto University)
- 16:00-16:15 **IL-05 Kazuhiko Semba** (Kyoto University)
Carboboration of Alkenes by Cooperative Metal Catalysis
- 16:15-16:30 **IL-06 Hayato Tsurugi** (Osaka University)
Dehalogenation of Vicinal Dihaloalkanes and Dihaloalkenes by Organosilicon Compounds in a Salt-free Manner
- 16:30-16:45 **IL-07 Masayuki Iwasaki** (Okayama University)
Regio- and Stereoselective Halothiolation of Alkynes Controlled by Transition-Metal Catalysts
- 16:45-17:00 **IL-08 Masakazu Nambo** (Nagoya University)
Modular Synthesis of Multiply-arylated Alkanes through Desulfonylative Cross-Coupling Reactions
- 17:00-17:30 **SL-08 Xuefeng Jiang** (East China Normal University)
Polysulfurating Reagents Design for Unsymmetrical Polysulfides Construction
- 17:30-17:50 **Break**
- Chair: David J. Procter** (University of Manchester)
- 17:50-18:20 **SL-09 Daisuke Uraguchi** (Nagoya University)
Molecular Design, Synthesis, and Asymmetric Catalysis of a Hexacoordinated Chiral Phosphate Ion
- 18:20-18:50 **SL-10 Patrick Walsh** (University of Pennsylvania)
New Reactivity Enabled by Cation- π Interactions
- 18:50-19:00 **Closing Remarks from Chairman**
- 19:15- **Mixer (La Tour, Moderator: Toshiaki Murai)**

POSTER PROGRAM

- P-01 **Synthesis and Reactivity of Diborane(4) Dianion**
Seiji Akiyama, Makoto Yamashita*
- P-02 **Synthesis and Properties of Boryl-Substituted Multiple Boron-Boron Bond by Using Boryllithium**
Atsumi Yagi, Haruki Kisu, Makoto Yamashita*
- P-03 **The Electronic Effects of Aryl Groups around the Boron Atom on the Catalytic Activity of Cage-Shaped Borates**
Akihito Konishi, Daiki Tanaka, Makoto Yasuda*
- P-04 **Electrophilic Cyanation of Allylic Boranes: Regioselective Construction of Allylic Quaternary Carbon Centers**
Shotaro Hata, Kensuke Kiyokawa, Satoshi Minakata*
- P-05 **Selective Alkyl Transfer Reaction Using a Recyclable Organoboron Compound**
Yuto Sumida*, Tomoe Sumida, Takamitsu Hosoya*
- P-06 **NHC/Pd Catalyzed Cross-Coupling Reactions of Nitroarenes**
Myuto Kashihara, Kazuhiko Semba, Yoshiaki Nakao*
- P-07 **Copper-Catalyzed Borylative Transformation of Allenes**
Tetsuaki Fujihara*, Ayumi Sawada, Yasushi Tsuji*
- P-08 **Synthesis and Property of Nucleophilic Al anion**
Satoshi Kurumada, Shuhei Takamori, Makoto Yamashita*
- P-09 **Reactions of Anionic Aluminabenzene with Electrophiles**
Masaki Kuno, Katsunori Suzuki, Taichi Nakamura, Makoto Yamashita*
- P-10 **Reactivity of Bismabenzene**
Yasuho Namba, Takuya Ishii, Katsunori Suzuki, Makoto Yamashita*
- P-11 **Metal-free Reductive Transformation of Nitroarenes by Organosilicon Reducing Reagents**
Hiromu Hosoya, Argha Bhattacharjee, Hideaki Ikeda, Kohei Nishi, Hayato Tsurugi*, Kazushi Mashima*
- P-12 **Aryne Relay Chemistry en Route to Aminoarenes: Synthesis of 3-Aminoaryne Precursors via Regioselective Silylamination of 3-(Triflyloxy)arynes**
Yu Nakamura, Suguru Yoshida*, Keisuke Uchida, Yuki Hazama, Takamitsu Hosoya*
- P-13 **Access to Benzo-Fused Nine-Membered Heterocyclic Alkenes with A Trifluoromethyl Carbinol Moiety via A Double Decarboxylative Formal Ring-Expansion Process under Palladium Catalysis**
Satoshi Gondo, Pulakesh Das, Punna Nagender, Hiroto Uno, Etsuko Tokunaga, Norio Shibata*

- P-14 **Synergistic Palladium/Copper-Catalyzed Csp³-Csp² Cross-Couplings Using Aldehydes as α -Alkoxyalkyl Anion Equivalents**
Mitsutaka Takeda, Kenya Yabushita, Shigeo Yasuda, Hirohisa Ohmiya*
- P-15 **Stille Cross-coupling of Secondary and Tertiary α -(Trifluoromethyl)benzyl Chlorides with Allylstannanes**
Kyosuke Harada, Nagender Punna, Etsuko Tokunaga, Norio Shibata*
- P-16 **Z-Selective Synthesis of Trisubstituted Alkenes by the Reaction of Ketones with the Julia-Kocienski-Type Reagents**
Daiki Takama, Kaori Ando*
- P-17 **Conversion of 2,2'-Bis(methylthio)-1,1'-Biphenyl to Dibenzothiophenes via the Cleavage of Two C-S Bonds**
Yoshihiro Masuya, Yuki Kawashima, Naoto Chatani*, Mamoru Tobisu*
- P-18 **Improved Preparation of Our Methylenation Reagent 3 and Its Reaction with Ketones and Aldehydes**
Mai Oguchi, Kaori Ando*
- P-19 **Synthesis and Properties of Aryl-Substituted Tetrathiafulvalene Analogs**
Ryo Sakakibara, Tsubasa Kuribayashi, Hitoshi Kimura, Aya Yoshimura, Takashi Shirahata, Hideki Yorimitsu*, Yohji Misaki*
- P-20 **Synthesis of Unsymmetrical Tertiary Phosphine Oxides via Sequential Substitution Reaction Using Stable Substrates with Thio Leaving Groups**
Yoshitake Nishiyama, Yuki Hazama, Suguru Yoshida*, Takamitsu Hosoya*
- P-21 **Stereoselective Synthesis of Z-1,3-Dienes Using 1-Methylbenzimidazolyl Sulfones**
Haruka Asano, Takahisa Kobayashi, Kaori Ando*
- P-22 **Modification of 2-sulfanylhydroquinone to attach bioactive molecules**
Haruka Umemoto, Takuji Kawamoto, Akio Kamimura*
- P-23 **Chiral primary phosphines having chiral centers adjacent to the phosphorus atom: synthesis and synthetic applications**
Ryota Wada, Yuuki Maekawa, Koji Iwata, Toshiaki Murai
- P-24 **Stereoselective Synthesis of Ethyl Z- α,β -Unsaturated Sulfonates Using A New Peterson Reagent**
Mai Takada, Kensuke Fujimoto, Kaori Ando*
- P-25 **Bromine Cation Initiated *vic*-Diphosphination of Styrenes with Diphosphines under Photoredox Catalysis**
Nobutaka Otomura, Yuto Okugawa, Koji Hirano*, Masahiro Miura*
- P-26 **Transition Metal Catalyzed Synthesis of Phosphole Derivatives from Bisphosphine Ligands**
Hayato Fujimoto, Momoka Kusano, Katsuaki Baba, Yoshihiro Masuya, Naoto Chatani*, Mamoru Tobisu*

- P-27 **Synthesis of Benzophospholes via Formal [3+2] Cycloaddition of Phosphenium Cations with Alkynes**
Kazutoshi Nishimura, Yuto Unoh, Koji Hirano*, Masahiro Miura*
- P-28 **Synthetic Approach to Selenoglucose and Selenoglucosamine Derivatives via Hetero Diels-Alder Reaction of Selenoaldehydes**
Ryota Ishikawa, Taniyuki Furuyama, Hajime Maeda, Masahito Segi
- P-29 **Stereoselective Synthesis of Ribofuranosyl Sulfones and Their Application to Julia-Kocienski Reaction**
Ayumi Mori, Natsuhisa Oka*, Kaori Ando*
- P-30 **Termination Mechanism in the Radical Polymerization of (Meth)acrylonitriles**
Xiaopei Li, Yasuyuki Nakamura, Shigeru Yamago*
- P-31 **Preparation of bicyclic lactam via radical cascade triggered by tin radical**
Ryo Nozawa, Takuji Kawamoto, Akio Kamimura*
- P-32 **Controlled radical polymerization of acyclic *N*-vinyl amides using organotellurium compounds**
Weijia Fan, Shigeru Yamago*
- P-33 **Reaction control of radical perfluoroalkylation by flow microreactors**
Tokiwa Watanabe, Ryosuke Arai, Masashi Sonoyama, Hideki Amii*
- P-34 **One Pot Synthesis of Structure Controlled Hyper-branched Polymers by Using a Monomer with Hierarchical Reactivity**
Yangtian Lu, Shigeru Yamago*
- P-35 **Chiral Hypervalent Iodine-Induced Dearomatizative Spirocyclization-Functionalization by Alkyne Activation Strategy**
Hirotaka Sasa, Yuta Amano, Yosuke Toyoda, Tomofumi Nakae, Toshifumi Dohi, Yasuyuki Kita
- P-36 **Total Synthesis of Blennolide C and Gonytolide C**
Kanna Adachi, Sho Hasegawa, Kazuaki Katakawa, Takuya Kumamoto
- P-37 **Synthesis and Properties of Tribenzocarbazoles via an Acid Promoted Retro (2+2)-Cycloaddition of Azapropellanes**
Naoki Ogawa, Yousuke Yamaoka, Hiroshi Takikawa, Kiyosei Takasu*
- P-38 **Inter- and Intramolecular [2+2] Cycloaddition Reactions of Styrenes and Ethenetricarboxylates**
Shoko Yamazaki*, Yuko Yamamoto, Akihisa Hirose, Hirotaka Sugiura, Akiya Ogawa, Kiyomi Kakiuchi
- P-39 **Regioselectivity of Dienone-Phenol Rearrangement of 4,4-Disubstituted 2-Hydroxycyclohexa-2,5-dienone Derivatives and Corresponding Difluorides**
Ahmed AbuBakr, Shuji Akai*

- P-40 **Reactions of Trifluoromethyl Isobenzofurans with Quinones**
Yukari Matsumoto, Yoshimasa Hikobe, Shun Shinada, Masanori Inaba, Yuta Nishina, Hideki Amii*
- P-41 **Transformation of Tetrahydroxy Cycloparaphenylenes Using Transition Metal Catalyzed Reactions**
Masaya Nakano, Liansheng Sun, Eiichi Kayahara, Shigeru Yamago
- P-42 **Chemical modification of a new macrocyclic molecule, deltaarene**
Kazuki Ikeda, Takuji Kawamoto, Akio Kamimura*
- P-43 **Synthesis of Cyclic Organogermanium Materials: Arene-inserted Extended Germa[N]pericyclines and Hypercoordinate Germanium Dilactone**
Hiroki Tanimoto*, Daiki Tomori, Junta Mori, Kiyomi Kakiuchi*
- P-44 **Cycloaddition Reaction of Cycloparaphenylenes with 1,2,4-Triazoline-3,5-dione**
Koji Yamamoto, Eiichi Kayahara, Shigeru Yamago*
- P-45 **Synthesis and Properties of Transparent Hole-Transporting Materials Containing Partially Oxygen-bridged Triphenylamine Skeletons**
Minh Anh Truong, Richard Murdey, Atsushi Wakamiya*
- P-46 **Thermally-induced Self-doping of Poly(3-substituted thiophene)s**
Chihiro Kubota, Keisuke Fujita, Tadayuki Ogura, Toyoko Suzuki, Kentaro Okano, Atsunori Mori*, Masahiro Funahashi*
- P-47 **Hydrogen Bond Networks for Controlling Molecular Orientation of Naphthalene Diimides**
Tomoya Nakamura, Nobutaka Shioya, Takafumi Shimoaka, Takeshi Hasegawa, Yasujiro Murata, Richard Murdey, Atsushi Wakamiya*
- P-48 **Synthesis of Thioesters through Palladium-Catalyzed Insertion of Isocyanides into Heteroaryl Sulfides**
Shinya Otsuka, Keisuke Nogi, Hideki Yorimitsu*
- P-49 **Cu-catalyzed Ring-opening Silylation of Benzofurans with a Disilane**
Hayate Saito, Keisuke Nogi, Hideki Yorimitsu*
- P-50 **Synthesis of Biaryls from Aryl Sulfoxides and Anilines via Sigmatropic Rearrangement**
Tomoyuki Yanagi, Jing-Dong Guo, Keisuke Nogi, Takahiro Sasamori, Hideki Yorimitsu*
- P-51 **Manganese-Catalyzed Ring-Opening of Benzofurans and its Application to Insertion of Heteroatom into the C2–O Bond**
Shun Tsuchiya, Hayate Saito, Keisuke Nogi, Hideki Yorimitsu*
- P-52 **Cobalt-Catalyzed Reduction of Aryl Sulfones to Arenes by Means of Alkylmagnesium Reagents**
Jun-ichi Fukuda, Keisuke Nogi, Hideki Yorimitsu*

- P-53 **Sigmatropic Rearrangements of Hypervalent-Iodine-Tethered Intermediates for the Synthesis of Biaryls**
Mitsuki Hori, Jing-Dong Guo, Tomoyuki Yanagi, Keisuke Nogi, Takahiro Sasamori, Hideki Yorimitsu*
- P-54 **Pd-Catalyzed Borylation of Arylsulfonium Salts with Diborons**
Hiroko Minami, Shinya Otsuka, Keisuke Nogi, Hideki Yorimitsu*
- P-55 **Palladium-Catalyzed Mizoroki-Heck-Type Alkenylation of Monoaryldialkylsulfoniums**
Daisuke Uno, Hiroko Minami, Shinya Otsuka, Keisuke Nogi, Hideki Yorimitsu*
- P-56 **Pummerer-based Defluorinative Formation of Benzofurans from Ketene Dithioacetal Monoxides and Polyfluorophenols**
Koichi Okamoto, Mitsuki Hori, Keisuke Nogi, Hideki Yorimitsu*
- P-57 **Nickel-Catalyzed Desulfonylative Transformation of Diaryl Sulfones into Biaryls**
Fumiya Takahashi, Keisuke Nogi, Hideki Yorimitsu*
- P-58 **Four-component Coupling Strategy for 2,3,4-Trisubstituted 3,4-Dihydroquinoline**
Hiroki Yamagishi, Shun Tsuchiya, Hayate Saito, Keisuke Nogi, Jun Shimokawa, Hideki Yorimitsu*