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## November 12 (Thu)

16:45-18:45 Poster Session 3 (Rooms C and D)

**PC(C)-01 — PC(C)-72 (Room C)**

**PC(D)-01 — PC(D)-38 (Room D)**

### Room C

**PC(C)-01 Hsin-Hui Lin, Ming-Chang Yeh**

Diastereoselective Synthesis of Fluorine-Containing Pyrrolizidines via Triphenylcarbenium Tetrafluoroborate-Promoted Carbofluorination of *N*-3-Arylpropargylpyrrolidine-Tethered Tertiary Allylic Alcohols

**PC(C)-02 Hiroki Tanimoto, Keiichi Yokoyama, Takashi Shitaoka, Yusuke Mizutani, Kiyomi Kakiuchi**

Study of Nitrosoallenes: Nucleophilic  $\alpha$ -Functionalization of Enoximes and Cycloaddition Reactions Producing Cyclic Nitrones

**PC(C)-03 Yasunori Minami, Tomohiro Anami, Tamejiro Hiyama**

Palladium-Catalyzed Annulation of 2-Silylethynoxy-Substituted Biaryls through  $\delta$ -C-H Activation

**PC(C)-04 Masaki Ohtawa, Taichi Ohshiro, Satoshi Omura, Hiroshi Tomoda, Tohru Nagamitsu**

Structure-Activity Relationship Study and Total Synthesis of Pyripyropene A as a ACAT2-Selective Inhibitor

**PC(C)-05 Michal Jurášek, Silvie Rimpelová, Tomáš Zimmermann, Vladimíra Pavlíčková, Miloš Majdl, Eva Kmoníčková, Tomáš Ruml, Pavel B. Drašar**

Semisynthetic Derivatives of Sesquiterpene Lactones

**PC(C)-06 C. Y. Leung, Tony K. M. Shing**

Manganese(II) Complex Catalyzed Benzylic C-H Oxidation

**PC(C)-07 Xueqiang Wang, Masaki Nakajima, Ruben Martin**

Ni-Catalyzed Hydrocarboxylation of Alkynes Employing Simple Alcohols as Hydrogen Donors

**PC(C)-08 Anuchit Phanumartwiwath, Matthew Schombs, Rogen L. C. Leung, Omar Boutureira, Anna Kirjavainen, Sarita Forsback, Olof Solin, Merja Haaparanta-Solin, Alex M. Dickens, Gonçalo J. L. Bernardes, Daniel C. Anthony, Benjamin G. Davis**

Direct Electrophilic C-F Bond Formation on Annexin V

**PC(C)-09 Kazunobu Igawa, Junko Takada, Daisuke Yoshihiro, Naoto Kokan, Nobumasa Ichikawa, Tomohiro Shimono, Katsuhiko Tomooka**

Enantioselective Synthesis of Chiral Silanol and Stereospecific Transformation Thereof

- PC(C)-10** Azusa Kondoh, Takuma Aoki, Masahiro Terada  
Brønsted Base-Catalyzed Intramolecular Cyclization Utilizing [1,2]-Phospha-Brook Rearrangement
- PC(C)-11** Polina Prokhorova, Irina Geide, Alexandra Kulyashova, Yury Morzherin  
Synthesis and Complexing Properties of Heteroditopic Receptors for Transition Metal Salts
- PC(C)-12** Olga A. Trofimova, Tatiana V. Gluhareva, Yuri Yu Morzherin  
Novel 4H-Chromenopyrimidine Derivatives Synthesis
- PC(C)-13** Soyoung Park, Hiroshi Sugiyama  
Development of DNA Metalloenzymes Using a Rational Design Approach for Asymmetric Synthesis
- PC(C)-14** Terumasa Kato, Shin-ichi Matsuoka, Masato Suzuki  
Transfer Hydrogenation Mediated by N-Heterocyclic Carbene and Water
- PC(C)-15** Shotaro Takano, Takuya Kochi, Fumitoshi Kakiuchi  
Syntheses and Reactivities of Phosphine-Quinolinolato Rhodium Complexes
- PC(C)-16** Abhinanda Kundu, Haruki Nagae, Yu Shibata, Hayato Tsurugi, Kazushi Mashima  
Aminoalkylation Reaction of Substituted Pyridine Derivatives Catalyzed by Tris(amido)yttrium Complexes
- PC(C)-17** Takashi Otani, Kanako Ueki, Kinryo Cho, Takao Saito  
Construction of Dibenzo-Fused Seven- to Nine-Membered Carbocycles and Heterocycles via Brønsted Acid-Promoted Intramolecular Friedel–Crafts-Type Alkenylation
- PC(C)-18** Sangita Karanjit, Atchaleeya Jinasan, Ekasith Samsook, Raghu N. Dhital, Kenichi Motomiya, Yoshinori Sato, Kazuyuki Tohji, Hidehiro Sakurai  
Significant Stabilization of Palladium by Gold in the Bimetallic Nanocatalyst Leading to an Enhanced Activity in the Hydrodechlorination of Aryl Chlorides
- PC(C)-19** Kosuke Higashida, Atsuhiko Iimuro, Yusuke Kita, Kazushi Mashima  
Asymmetric Hydrogenation of *N*-Heteroaromatics by Chiral Dinuclear Iridium Complexes
- PC(C)-20** Rej Supriya, Hayato Tsurugi, Kazushi Mashima  
Paddlewheel Mo<sub>2</sub>-Catalyzed Radical Addition Reaction of Polyhaloalkanes to  $\alpha$ -Olefins
- PC(C)-21** Choji Kono, Yuki Matsumoto, Ken Kamikawa  
Synthesis of Azahelicene by Palladium-Catalyzed Dehydrogenative C-H Coupling Reaction
- PC(C)-22** Kyohei Yonekura, Kenji Oki, Teruhisa Tsuchimoto  
Iridium-Catalyzed Formal *N*-Arylation and *N*-Alkylation of Pyrroles with Amines
- PC(C)-23** Wan-Ping Yen, Shi-Han Lu, Naoto Uramaru, Fung Fuh Wong  
Self-Immolative and *N*-Formamidation of  $\alpha$ -Iodo-*N*-arylacetamides to *N*-Arylformamide under Formamide
- PC(C)-24** Ryosuke Shigitani, Masaki Shimizu  
Synthesis and Luminescent Properties of 2,5-Dialkoxyterephthalic Acid Diesters

- PC(C)-25** **Ryohei Doi, Masato Ohashi, Sensuke Ogoshi**  
The First Catalytic Reformatsky Reaction via C–F Bond Activation
- PC(C)-26** **Kaname Takaoka, Daisuke Kaneno**  
Origins of  $\pi$ -Facial Selectivity in Hydroboration of Allylic Substituted Alkenes
- PC(C)-27** **Naohiko Ikuma, Koichi Fujioka, Yuta Doi, Ken Kokubo, Takumi Oshima, Hidehiro Sakurai**  
Acid Catalyzed Regioselective Arylation of Azafulleroids Behaving as an Ambident Base
- PC(C)-28** **Nobuhiko Ohashi, Keisuke Kitakaku, Takahiro Soeta, Yutaka Ukaji**  
Synthetic Studies on Sterically Locked Phytochrome Chromophores toward Elucidation of Phytochrome Functions
- PC(C)-29** **Ryosuke Yamada, Yohei Adachi, Satoshi Yokoshima, Tohru Fukuyama**  
Total Synthesis of Daphenylline
- PC(C)-30** **Rie Yasuda, Ken Kamikawa**  
Catalytic Asymmetric Synthesis of Axially Chiral Phosphinobiaryl by C-H Functionalization
- PC(C)-31** **Hiroaki Oda, Rahul Kavthe, Yusuke Kita, Kazushi Mashima**  
Asymmetric Allylic Alkylation of  $\beta$ -Ketoesters with Allylic Alcohols Catalyzed by Nickel Complexes with a Chiral Diphosphine Ligand
- PC(C)-32** **Ming-Chang P. Yeh, Yu-Ya Huang, Yu-Ting Weng, Hsin-Hui Lin**  
Diastereoselective Synthesis of Fluorine-Containing Pyrrolizidines via Triphenylcarbenium Tetrafluoroborate-Promoted Carbofluorination of *N*-3-Arylpropargylpyrrolidine-Tethered Tertiary Allylic Alcohols
- PC(C)-33** **Naoto Takashina, Manabu Abe, Syuhei Higashibayashi, Yumi Yakiyama, Hidehiro Sakurai**  
Synthesis, Characterization, and Reaction of Sumanenylcarbene
- PC(C)-34** **Ryutaro Hayashi, Yosuke Ashikari, Toshiki Nokami, Akihiro Shimizu, Jun-ichi Yoshida**  
Transformation of  $\beta$ -Haloalkoxysulfonium Ions Generated by Electrochemical Oxidation
- PC(C)-35** **Koji Yamashita, Syunya Yoshikawa, Rui Umeda, Yutaka Nishiyama**  
Synthesis of Isocoumarins by the Rhenium-Catalyzed 6-Endo Cyclization of *o*-Ethynylbenzoic Acids
- PC(C)-36** **A. Baralle, S. Otsuka, V. Guérin, K. Murakami, H. Yorimitsu, A. Osuka**  
Nickel-NHC-Catalyzed Cross-Coupling of 2-Methylsufanylbenzofurans with Alkyl Grignard Reagents
- PC(C)-37** **Tsuyoshi Ueda, Naoyuki Hoshiya, Kin-ichi Tadano, Jun'ichi Uenishi**  
Total Synthesis of (+)-Goniodenin
- PC(C)-38** **Katsuyuki Hirose, Kana Akahori, Shinya Tokuoka, Aiichiro Nagaki, Jun-ichi Yoshida**  
Generation and Reactions of Perfluoroalkyl-Substituted Organolithiums Using Flow Microreactors
- PC(C)-39** **Doan Thi Thuy Trinh, Soda Chanthamath, Kazutaka Shibatomi, Seiji Iwasa**  
Ru(II)-Pheox Catalyzed Stereoselective Cyclopropanation of Allylsilanes

- PC(C)-40** **Sekar Prakash, Krishnamoorthy Muralirajan, Chien-Hong Cheng**  
Rh-Catalyzed Oxidizing Group-Directed Ortho C-H Vinylation of Arenes by Vinylstannanes
- PC(C)-41** **Ryo Ueda, Taiki Tanaka, Rui Umeda, Yutaka Nishiyama**  
Selective Synthesis of 1-Halonaphthalenes by Copper-Catalyzed Benzannulation
- PC(C)-42** **Wei-Yin Sun, Ji-Ai Hua**  
Porous Metal-Organic Frameworks with Mixed Multicarboxylate and Imidazole-Containing Ligands: Selective Sorption and Fluorescence Sensing
- PC(C)-43** **Michiko Sasaki, Yuri Kotomori, Kei Takeda**  
Stereochemical Course of Deprotonation/Acylation of  $\alpha$ -Amino Nitriles
- PC(C)-44** **Shinobu Takizawa, Kenta Kishi, Hiroaki Sasai**  
Organocatalyzed Synthesis of Heterocycles Bearing a Chiral Tetrasubstituted Carbon Center
- PC(C)-45** **Hyunwoo Kim, Sukbok Chang**  
Iridium-Catalyzed Direct C–H Amination with Alkylamines: Facile Oxidative Insertion of Amino Group into Iridacycle
- PC(C)-46** **Shuhei Sumino, Yuki Hamada, Takahito Ui, Takahide Fukuyama, Ilhyong Ryu**  
Carbonylative Mizoroki-Heck Reaction of Alkyl Iodides under Pd/Photoirradiation System
- PC(C)-47** **Yuki Fujii, Hiromichi Fujioka, Satoshi Shuto, Mitsuhiro Arisawa**  
A One-Pot Olefin Isomerization / Aliphatic Enamine Ring-Closing Metathesis (RCM) / Oxidation / 1,3-Dipolar Cycloaddition for the Synthesis of Isoindolo[1,2-*a*]isoquinolines
- PC(C)-48** **Suman C. Mohanta, Masashi Shigenobu, Kazuhiko Wakita, Kazuhiro Takenaka, Bijan M. Chaki, Hiroaki Sasai**  
Recent Progress of Enantioselective Pd-Catalysis Promoted by Spiro-Type Chiral Ligands
- PC(C)-49** **Masashi Nakamura, Yousuke Ooyama, Joji Ohshita**  
Synthesis of New Dithienogermoles
- PC(C)-50** **Toru Shinozawa, Shou Terasaki, Maki Minakawa, Motoi Kawatsura**  
Kinetic Resolution in the Ruthenium-Catalyzed Asymmetric Allylic Etherification of Monosubstituted Allylic Acetates
- PC(C)-51** **Kohji Iwaida, Shun Ichii, Yu Masui, Kazuyoshi Kanamori, Toshiyuki Kamei, Kazuki Nakanishi, Toyoshi Shimada**  
Newly Immobilized ATRP Initiator on Glass Surface
- PC(C)-52** **Gaku Kashiwamura, Yuji Ono, Hiroaki Kaneta, Tsuyoshi Satoh, Tsutomu Kimura**  
Reaction of Magnesium Carbenoids with Lithium Enolates
- PC(C)-53** **Yuuki Sawatsugawa, Hirokazu Utsugi, Tetsuya Sugiura, Shin Horio, Teruhisa Tsuchimoto**  
Zinc-Catalyzed Dehydrogenative Coupling of Terminal Alkynes with 1,8-Naphthalenediaminoborane

- PC(C)-54** **Ken Tsutsumi, Kotohiro Nomura**  
Synthesis and Characterization of Palladium and Nickel Complexes Containing Chiral Bis(oxazoline) Ligands
- PC(C)-55** **Kazukuni Tahara, Kenta Nakatani, Steven De Feyter, Yoshito Tobe**  
Periodic Functionalization of Surface-Confined Pores in a Two-Dimensional Porous Molecular Network Using a Designed Molecular Building Block
- PC(C)-56** **Chia-Jui Lee, Cheng-Che Tsai, Shao-Hao Hong, Geng-Hua Chang, Mei-Chun Yang, Lennart Möhlmann, Wenwei Lin**  
Preparation of Furo[3,2-*c*]coumarins Appending Phosphorus Ylides from 3-Cinnamoyl-4-hydroxy-2H-chromen-2-ones and Acyl Chlorides via Bu<sub>3</sub>P-Mediated C-Acylation/Cyclisation
- PC(C)-57** **Fengniu Lu, Tomohisa Takaya, Izuru Kawamura, Takashi Nakanishi**  
A Clear Guidance for Producing Room Temperature Liquid Pyrenes with Regulated Pyrene Fluorescence
- PC(C)-58** **Duangkamon Namborisut, Punlop Kuntiyong**  
Total Syntheses of Protoemetinol and Alangine
- PC(C)-59** **Kazuto Takaiishi, Takahiro Yamamoto, Kyohei Hayashi, Chihiro Maeda, Tadashi Ema**  
Synthesis and Optical Properties of Oligonaphthalenes with Continuous *Cisoid* Conformation
- PC(C)-60** **Masaki Kogawa, Hirotaka Watanabe, Mitsuaki Yamamoto, Maki Minakawa, Motoi Kawatsura**  
Palladium-Catalyzed Reaction of 2-Fluoroallyl Esters with Phenols and Succinimide
- PC(C)-61** **Kazuto Shimizu, Tomohiko Nishiuchi, Yasukazu Hirao, Takashi Kubo**  
Synthesis and Property of Antiaromatic Ring by Using Strain Energy of Non-Planar  $\pi$  Conjugated Systems
- PC(C)-62** **Yusuke Chiba, Jun Terao, Tetsuaki Fujihara, Yasushi Tsuji**  
Selective Synthesis of Porphyrin Tubes Using an Amine Template Method
- PC(C)-63** **Keisuke Takenaka, Akihiro Shimizu, Jun-ichi Yoshida**  
Quinones for Active Materials of Redox-Flow Batteries
- PC(C)-64** **Eiichi Kayahara, Vijay Kumar Patel, Audrey Mercier, E. Peter Kündig, Shigeru Yamago**  
Regioselective Synthesis and Characterization of Multinuclear Convex-Bounded Ruthenium-Cycloparaphenylene Complexes
- PC(C)-65** **Taiki Hayashi, Ken Ohmori, Keisuke Suzuki**  
Synthetic Study on Carthamin
- PC(C)-66** **Alena Platonova, A. A. Poluikova, T. V. Glukhareva, Yu. Yu. Morzherin**  
Microwave Synthesis of Fused 3-Thiocarbamoylquinolines and Modification Thereof by Hantzsch Reaction
- PC(C)-67** **Lichen Yang, Teruhiko Saito, Kazuhiko Semba, Yoshiaki Nakao**  
C-4 Selective Borylation of Pyridines by Cooperative Iridium/Aluminum Catalysis
- PC(C)-68** **Masahito Murai, Keishi Takami, Kazuhiko Takai**  
Iridium-Catalyzed Intermolecular Dehydrogenative Silylation of Polycyclic Aromatic Compounds without Directing Groups

- PC(C)-69** **Yuichiro Ando, Kohsuke Ohmatsu, Takashi Ooi**  
Catalytic Asymmetric Carbon–Heteroatom Bond-Forming Reactions at  $\alpha$ -Position of Carbonyl Compounds
- PC(C)-70** **Nobuhiko Nishitani, Takashi Hirose, Kenji Matsuda**  
Nucleation–Elongation-Type Self-Assembly at a Liquid/Solid Interface: Effect of Hydrogen Bond of Urea and Amide Groups
- PC(C)-71** **Kohei Watanabe, Takashi Mino, Taketo Kogure, Masami Sakamoto**  
Hydrazone-Palladium Catalyzed Allylic Arylation of Allyloxyphenylboronic Acid Pinacol Ester
- PC(C)-72** **Mari Shibata, Hideto Ito, Kenichiro Itami**  
Mechanistic Study on C–H Arylation of Polycyclic Aromatic Hydrocarbons Catalyzed by Palladium/*o*-Chloranil

## Room D

- PC(D)-01** **Takahiro Iwamoto, Taku Ohnogi, Mitsunori Honda, Ko-Ki Kunimoto**  
Synthesis of Novel Ionic Liquids Possessing Perfluoroalkyl Groups
- PC(D)-02** **Masafumi Ueda, Shoichi Sugita, Norihiko Takeda, Okiko Miyata**  
Gold-Catalyzed Generation of *N*-Alkoxyazomethine Ylide and Cycloadditions Cascade
- PC(D)-03** **Takanori Iwasaki, Ryohei Shimizu, Reiko Imanishi, Hitoshi Kuniyasu, Nobuaki Kambe**  
Copper-Catalyzed Regioselective Hydroalkylation of 1,3-Dienes with Alkyl Fluorides and Grignard Reagents
- PC(D)-04** **Eliška Matoušová, Martin Kotora**  
Inversion of Regioselectivity of the Cyclotrimerization Reaction of 1-Cyclopropyl-1,6-diynes when Switching from Ruthenium to Rhodium Catalysis
- PC(D)-05** **Ayumu Kawase, Hirokazu Tsukamoto, Takayuki Doi**  
Asymmetric Palladium-Catalyzed Umpolung Cyclization of Allylic Acetate-Aldehyde Using Formate as a Reductant
- PC(D)-06** **Yuta Yanagita, Takahiro Suto, Naoya Matsuo, Yasuhiro Kurosu, Yoshiyuki Nagashima, Takaaki Sato, Noritaka Chida**  
Synthetic Study of Madangamines
- PC(D)-07** **Tomoki Itoh, Takumi Abe, Takashi Nishiyama, Tominari Choshi, Satoshi Hibino, Minoru Ishikura**  
Concise Synthesis of Tryptanthrins
- PC(D)-08** **Yusuke Murata, Tetsuya Sengoku, Masaki Takahashi, Hidemi Yoda**  
Development of Catalytic Asymmetric Amide Allylation of 1,2-Dicarbonyl Compounds with  $\beta$ -Amido-Functionalized Allylstannanes
- PC(D)-09** **Preeyarad Charoensumran, Bunyarithi Sookcharoenphinyo**  
Synthesis of New Designed Receptors and Their Binding Study to Cholesterol in Aqueous Solutions
- PC(D)-10** **Niti Ngamsomprasert, Jing-Shuang Dang, Yumi Yakiyama, Shuhei Higashibayashi, Hidehiro Sakurai**  
Synthesis and Reaction of Hydroxysumanene: The First Example of the Functionalization at the Internal Carbon
- PC(D)-11** **Yosuke Demizu, Takashi Misawa, Masaaki Kurihara**  
Development of Stabilized Helical Peptides and Their Functionalization
- PC(D)-12** **Hikaru Kondo, Nana Akiba, Takuya Kochi, Fumitoshi Kakiuchi**  
Ruthenium-Catalyzed Monoselective Alkenylation of Aromatic Ketones via Cleavage of Carbon–Heteroatom Bonds with Unconventional Chemoselectivity
- PC(D)-13** **Tomohiro Agou, Koichi Nagata, Takahiro Sasamori, Norihiro Tokitoh**  
Homocoupling Reactions of Isocyanides Mediated by a Dialumane
- PC(D)-14** **Keiji Suzuki, Yilihamu Yisilamu, Katsuhiko Ono**  
Synthesis and Properties of Boron-Chelating Bithiophene Derivatives Extended by Olefinic and Acetylenic Spacers

- PC(D)-15** **Kanako Kumada, Takehiro Kameyama, Jun Kadokawa, Yoshinori Kondo**  
Copper-Catalyzed sp<sup>3</sup> C-H Aminative Cyclization of 2-Alkyl-*N*-arylbenzamides: A Novel Approach for the Synthesis of *N*-Aryl-isoindolinones
- PC(D)-16** **Masaoki Yamamoto, Ken Ishigami, Hidenori Watanabe**  
Total Synthesis of Glabramycin B
- PC(D)-17** **Midori Nagamoto, Tomoyuki Yanagi, Takahiro Nishimura**  
Stereoselective Cyclization of *N*-Sulfonyl Alkenyl Amides Catalyzed by Ir/Diene Complexes
- PC(D)-18** **Yoshiki Manabe, Satoshi Sakaguchi**  
Enantioselective Hydrosilylation of Ketone Catalyzed by Hydroxyamide Functionalized NHC-Ir Species
- PC(D)-19** **Yuji Shimizu, Teruaki Namba, Rui Umeda, Yutaka Nishiyama**  
Reaction of Benzanthrone with Metal Acetylde
- PC(D)-20** **Wengang Xu, Pin-Sheng Lee, Naohiko Yoshikai**  
Highly Efficient Ortho-C-H Alkenylation of Aryl Imines with Alkenyl Phosphates Enabled by a New Cobalt-NHC Catalyst
- PC(D)-21** **Yusuke Kita, Yuji Nishii, Shoko Akiyama, Kazushi Mashima**  
Manganese-Catalyzed Esterification of Amides
- PC(D)-22** **Naoto Uramaru, Li-Ya Wang, Fung Fuh Wong**  
Synthesis of Pyrazolo[3,4-*b*]pyrrolo[3,4-*d*]pyridine Derivatives via Aza-Diels-Alder Reaction: Evaluation of Torsion Effect of Pyrazoylimines
- PC(D)-23** **Suguru Yoshida, Ken Shimomori, Kim Youngchan, Takamitsu Hosoya**  
Selective C-F Bond Cleavage via a Silylium Intermediate
- PC(D)-24** **Toshiyuki Kamei, Mizuho Uryu, Toyoshi Shimada**  
Cu-Catalyzed Aerobic Oxidative C-H Functionalization/C-O Cyclization of 2,2'-Binaphthols; Efficient Synthesis of PXX Derivatives
- PC(D)-25** **Naoyuki Hoshiya, Kei Takenaka, Mitsuhiro Arisawa, Satoshi Shuto, Jun'ichi Uenishi**  
Pd(II)-Catalyzed Directing Group-Mediated Arylation and Alkylation of Tertiary C(sp<sup>3</sup>)-H Bond on Chiral Cyclopropanes
- PC(D)-26** **Akihiro Orita, Feng Xu, Lifeng Peng, Kenta Shinohara, Takanori Nishida, Junzo Otera**  
One-Shot Synthesis of Diamino-Substituted Pentalenes from Sondheimer-Wong Dienes
- PC(D)-27** **Chie Takase, Yoshiaki Hattori, Masahiro Kido, Tsuyoshi Satoh, Tsutomu Kimura**  
Synthetic Application of Conjugate Adducts Prepared from 1-Chlorovinyl Sulfoxide and Lithium Ester Enolates
- PC(D)-28** **Yuki Nakano, Keitaro Matsumoto, Satoshi Sakaguchi**  
Switching of Enantioselectivity in Cu-Catalyzed 1,4-Addition Reaction under Influence of Chiral NHC-Ag Complex
- PC(D)-29** **Anna Šuláková, Lucie Fojtíková, Martin Kuchař, Oldřich Lapčík**  
Development of User Friendly Immunochemical Test for Synthetic Cannabinoid JWH-200



- PC(D)-30** **Keisuke Nogi, Tetsuaki Fujihara, Jun Terao, Yasushi Tsuji**  
Cobalt-Catalyzed Carboxyzincation of Alkynes Employing Carbon Dioxide
- PC(D)-31** **Anggi Eka Putra, Yohei Oe, Tetsuo Ohta**  
Alkylation of Heterocyclic Compounds with Alcohols by Pd/C-Catalyzed  
“Borrowing Hydrogen”
- PC(D)-32** **Shinya Handa, Akari Takahashi, Hiroshi Sugimoto**  
Synthesis of  $\alpha$ -Oxyaldehyde and Application for a Mannich Reaction as an Ester  
Surrogate Using Intramolecular Redox Reaction Catalyzed by *N*-Heterocyclic  
Carbene
- PC(D)-33** **Motoi Satou, Takahiro Yoshikawa, Tetsuaki Fujihara, Jun Terao,  
Yasushi Tsuji**  
*N*-Heterocyclic Carbene Ligands Bearing Poly(ethylene glycol) Chains: Effect of  
the Chain Length on Palladium-Catalyzed Coupling Reactions Employing Aryl  
Chlorides
- PC(D)-34** **Hironori Takeuchi, Yusuke Fujimori, Yoshihiro Ueda, Tomoyuki Yoshimura,  
Takumi Furuta, Takeo Kawabata**  
Protecting-Group-Free  $\beta$ -Selective Glycosidation
- PC(D)-35** **Atsushi Manabe, Shota Ueda, Tetsuro Shinada**  
Synthetic Study of Tetrodotoxin
- PC(D)-36** **Akito Ohgi, Teruhiko Saito, Kazuhiko Semba, Yoshiaki Nakao,  
John F. Hartwig**  
Ni-Catalyzed Linear-Selective Alkylation of Benzene with Olefins
- PC(D)-37** **Yuan-Zhen Ke, Yuuya Nagata, Tetsuya Yamada, Michinori Suginome**  
Majority-Rules-Type Helical Poly(quinoxaline-2,3-diyl)s as Efficient Chiral  
Amplification Systems for Asymmetric Catalysis
- PC(D)-38** **Yuki Yasueda, Tomonori Tamura, Shigeki Kiyonaka, Itaru Hamachi**  
Organelle-Localizable Reactive Molecules : A Chemical Approach for Organellar  
Proteomics in Live Cells