



AIMECS2021

Poster Presentations Program

A: New modality

PO-01 Discovery of a highly potent and selective degrader targeting hemato-poietic prostaglandin D synthase based on *in silico* design

Hidetomo Yokoo^(a, b), Norihito Shibata^(c), Akinori Endo^(d), Takahito Ito^(b), Yuta Yanase^(b), Yuki Murakami^(b), Kiyonaga Fujii^(e), Makoto Oba^(a), Yasushi Saeki^(d), Mikihiro Naito^(f), Kosuke Aritake^(g), Yosuke Demizu^(b)

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^(d) Protein Metabolism Project, Tokyo Metropolitan Institute of Medical Science

^(e) Laboratory of Analytical Chemistry, Daiichi University of Pharmacy

^(f) Laboratory of Targeted Protein Degradation, Graduate School of Pharmaceutical Sciences, The University of Tokyo

^(g) Laboratory of Chemical Pharmacology, Daiichi University of Pharmacy

PO-02 Targeted delivery of 211-At with low immunogenic mutant streptavidin-bisiminobiotin pre-targeting therapy

Toshifumi Tatsumi^(a), Kenzo Yamatsugu^(a), Yohei Shimizu^(a), Akira Sugiyama^(b), Songji Zhao^(c), Ken-ichi Nishijima^(c), Naoyuki Ukon^(c), Noboru Oriuchi^(c), Kazuhiro Takahashi^(c), Kohshin Washiyama^(c), Tatsuhiko Kodama^(d), Motomu Kanai^(a)

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^(d) Research Center for Advanced Science and Technology, The University of Tokyo

B: In silico, IT-based drug design and discovery

PO-03 Cefotaxime deacylation mechanism of the class C β -lactamase

Pratanphorn Nakliang, Sanghee Yoon, Sun Choi

Global AI Drug Discovery Center, College of Pharmacy and Graduate School of Pharmaceutical Sciences, Ewha Womans University

PO-04 Design of novel xanthine EGFR inhibitor as lung cancer drug candidate

Tasia Amelia, Rahmana Emran Kartasasmita, Daryono Hadi Tjahjono

School of Pharmacy, Bandung Institute of Technology

PO-05 A perspective on the development of c-Jun N-terminal Kinase inhibitors as therapeutics for Alzheimer's disease: focusing on structures through docking studies

Hyunwook Cho, Jung-Mi Hah

Department of Pharmacy, College of Pharmacy, Hanyang University

C: Biophysics, Physical property, Pharmacokinetics, Drug safety

PO-06 Development of an albumin-binding low-molecular-weight boron agent for neutron capture therapy

Kai Nishimura^(a), Taiki Morita^(a, b), Satoshi Okada^(a, b), Kazuki Miura^(a, b), Takumi Ogawara^(a), Hideki Kashiwagi^(c), Yusuke Fukuo^(c), Yoshitaka Matsumoto^(d), Takushi Takata^(e), Minoru Suzuki^(e), Kei Nakai^(d), Shinji Kawabata^(c), Hiroyuki Nakamura^(a, b)

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^(d) Department of Radiation Oncology, Faculty of Medicine, University of Tsukuba

^(e) Institute for Integrated Radiation and Nuclear Science, Kyoto University

D: Drug lead discovery, Compound library

PO-07 Antiproliferative Activity of 4-Arylpiperine Derivatives

Noriyuki Hatae^(a), Eiko Kujime^(b), Takashi Nishiyama^(c), Yuki Ichikawa^(a), Shinichi Suzuki^(a), Tominari Choshi^(c)

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PO-08 Discovery of Potent, Low-absorbable Sodium-Dependent Glucose Cotransporter 1 (SGLT1) Inhibitor SGL5213 for Type 2 Diabetes Treatment

Shoichi Kuroda^(a), Yohei Kobashi^(b), Takahiro Oi^(c), Kenichi Kawabe^(d), Fumiyasu Shiozawa^(c), Lisa Okumura-Kitajima^(e), Mami Sugisaki-Kitano^(e), Fusayo Io^(f), Koji Yamamoto^(g), Hiroyuki Kakinuma^(a)

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PO-09 Discovery of Potent, Low Absorbable Sodium-Dependent Glucose Cotransporter 1 (SGLT1) Inhibitor TP0438836 for Type 2 Diabetes Treatment

Hirovuki Kakinuma^(a), Shoichi Kuroda^(a), Yohei Kobashi^(b), Takahiro Oi^(c), Hideaki Amada^(d), Lisa Okumura-Kitajima^(e), Fusayo Io^(f), Koji Yamamoto^(g)

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PO-10 Design and Synthesis of Novel Spiro Derivatives as Potent and Reversible Monoacylglycerol Lipase (MAGL) Inhibitors: Bioisosteric Transformation from 3-Oxo-3,4-dihydro-2H-benzo[b][1,4]oxazin-6-yl moiety

Shuheji Ikeda^(a), Hideyuki Sugiyama^(a), Hidekazu Tokuhara^(a), Masataka Murakami^(a), Minoru Nakamura^(a), Yuya Oguro^(a), Jumpei Aida^(a), Nao Morishita^(a), Satoshi Sogabe^(a), Douglas R. Dougan^(b), Sean C. Gay^(b), Ling Qin^(b), Naoto Arimura^(a), Yasuko Takahashi^(a), Masako Sasaki^(a), Yusuke Kamada^(a), Kazunobu Aoyama^(a), Kouya Kimoto^(a), Makoto Kamata^(a)

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^(b) Takeda California, Inc.

PO-11 Discovery of a Potent and Orally Bioavailable Melatonin Receptor Agonist

Yasutaka Hoashi, Takafumi Takai, Youhei Kosugi, Masato Nakashima, Masaharu Nakayama, Keisuke Hirai, Osamu Uchikawa, Tatsuki Koike

Takeda Pharmaceutical Company Limited

PO-12 Design, Synthesis, and Evaluation of ¹¹C-Labeled 3-Acetyl-indole Derivatives as Novel Positron-Emission Tomography Imaging Agent for Diacylglycerol Kinase Gamma (DGK γ) in Brain

Yasushi Hattori^(a), Tomoteru Yamasaki^(b), Tomohiro Ohashi^(a), Yuhei Miyanoohana^(a), Tomokazu Kusumoto^(a), Ryouta Maeda^(a), Maki Miyamoto^(a), Yasuyuki Debori^(a), Akito Hata^(a), Yiding Zhang^(b), Hidekatsu Wakizaka^(b), Takeshi Wakabayashi^(a), Masayuki Fujinaga^(b), Ryo Yamashita^(a), Ming-Rong Zhang^(b), Tatsuki Koike^(a)

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PO-13 Optimization of cross-linked structure for macrocyclic BACE1 inhibitors

Takuya Otani^(a), Kazuya Kobayashi^(a), Yasunao Hattori^(b), Kenichi Akaji^(a)

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PO-14 Bioactivity of Boronic Acid Derivative Homodimers

Makoto Furutachi

Faculty of Pharmaceutical Sciences, Fukuoka University

PO-15 Synthesis of piperonaline derivatives as potential anti-austerity agents that eliminates cancer cells' tolerance to nutrition starvation

Takuya Okada^(a, b), Keita Yokoyama^(a), Lanke Prudhvi^(a), Yuri Chino^(b), Suresh Awale^(c), Naoki Toyooka^(a, b)

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PO-16 Development of novel tubulin polymerization inhibitors based on *m*-carborane cage.

Asako Kaise^(a), Yuya Yamashita^(a), Kiminori Ohta^(b), Yasuyuki Endo^(a)

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PO-17 Discovery of Pyrazolo[1,5-*a*]pyrazin-4-ones as Potent and Brain Penetrant GluN2A Selective Positive Allosteric Modulators Reducing AMPA Receptor Binding Activity

Fumie Sakurai^(a), Takafumi Yukawa^(a), Asato Kina^(a), Masataka Murakami^(a), Kazuaki Takami^(a), Sachie Morimoto^(a), Masaki Seto^(a), Makoto Kamata^(a), Tohru Yamashita^(a), Kosuke Nakashima^(a), Naohiro Narita^(a), Ezio Bettini^(b), Annarosa Ugolini^(b), Mauro Corsi^(b), Tomoaki Hasui^(a)

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^(b) Aptuit, an Evotec Company

PO-18 Discovery of a Novel Series of GPR119 Agonists: Design, Synthesis, and Biological Evaluation of *N*-(Piperidin-4-yl)-*N*-(trifluoromethyl)pyrimidin-4-amine Derivatives

Osamu Kubo, Kazuaki Takami, Masahiro Kamaura, Koji Watanabe, Hirohisa Miyashita, Shinichi Abe, Kae Matsuda, Yoshiyuki Tsujihata, Tomoyuki Odani, Shinji Iwasaki, Tomoyuki Kitazaki, Toshiki Murata, Kenjiro Sato

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PO-19 Synthesis of Three-Dimensional Diazatricyclododecene Scaffold and Design of Peptidomimetics

Kohei Umedera^(a), Taiki Morita^(a,b), Atsushi Yoshimori^(c), Kentaro Yamada^(d,e), Akira Katoh^(e), Hiroyuki Kouji^(e,f), Hiroyuki Nakamura^(a,b)

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PO-20 Synthesis and Cancer Cell Growth Inhibition Evaluation of Acetogenin Thiophene Analogs with Shorter Alkyl Side Chain

Kaito Ohta^(a), Akinobu Akatsuka^(b), Shingo Dan^(b), Hiroki Iwasaki^(a), Masayuki Yamashita^(a), Naoto Kojima^(a)

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PO-21 Discovery of a Potent and Selective Sphingomyelin Synthase 2 Inhibitor for Proof of Concept

Takafumi Yukawa, Takashi Nakahata, Rei Okamoto, Yuji Ishichi, Yasufumi Miyamoto, Satoshi Nishimura, Tatsuo Oikawa, Kazuki Kubo, Ryutaro Adachi, Yoshinori Satomi, Masanori Nakakariya, Nobuyuki Amano, Masahiro Kamaura, Nobuyuki Matsunaga
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PO-22 Design and Synthesis of Novel Orexin Receptor Antagonists with 1,3,5-Trioxazatriquinane skeleton

Mao Amezawa^(a, b), Jumpei Horiuchi^(a, b), Tsuyoshi Saitoh^(b), Ryuichiro Ohshita^(a, b), Naoshi Yamamoto^(b), Yasuyuki Nagumo^(b), Yukiko Ishikawa^(b), Yoko Irukayama^(b), Emi Hasegawa^(b), Noriki Kutsumura^(a, b), Ryuji Tanimura^(c), Takeshi Sakurai^(b), Masashi Yanagisawa^(b), Hiroshi Nagase^(a, b)

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PO-23 Design and synthesis of novel flavanone derivatives against transthyretin amyloidosis

Yusuke Nakagawa^(a), Kishin Inui^(a), Ryota Kitakami^(b), Wakana Katayama^(c), Ayaka Shimane^(c), Takuya Okada^(a), Takeshi Yokoyama^(c), Mineyuki Mizuguchi^(c), Naoki Toyooka^(a)

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PO-24 Development of Cryptochrome inhibitors with circadian molecular clock-enhancing activity

Hansol Joo^(a), Yong Uk Jeong^(a), Bohun Kang^(a), Hye Young Lim^(b), Gi Hoon Son^(b), Jong-Wha Jung^(a)

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PO-25 Structure-Activity Relationship Studies of Protein Kinase C Activators Derived from Diacylglycerol for Cure of HIV Infectious Diseases

Takahiro Ishii^(a), Takuya Kobayakawa^(a), Kouki Matsuda^(b), Kohei Tsuji^(a), Kazuhisa Yoshimura^(c), Hiroaki Mitsuya^(b, d), Kenji Maeda^(b), Hirokazu Tamamura^(a)

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PO-26 Lead identification and optimization of novel tetrahydroimidazo[1,2-a]pyridine-5-carboxylic acid derivative as a potent heparanase-1 inhibitor

Yudai Imai^(a), Ryo Suzuki^(a), Daisuke Wakasugi^(a), Daisuke Matsuda^(a), Nozomi Tanaka-Yamamoto^(a), Yuta Ohki^(a), Sota Kato^(b), Mami Sugisaki^(b), Hiroh Miyagawa^(c), Mayumi Endo^(c), Masashi Mima^(c), Natsuko Fujimoto^(c), Takuya Fukunaga^(c), Sayaka Kato^(c), Teisuke Takahashi^(b), Hiroyuki Kakinuma^(a)

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PO-27 Development of Androgen Receptor Ligands Bearing Ferrocene as the Hydrophobic Pharmacophore

Kotaro Ochiai, Hiroyuki Kagechika, Shinya Fujii

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PO-28 Functional improvement of silibinin analogues with constrained 3D structures.

Mirei Mizuno, Kazunori Mori, Keisuke Tsuchiya, Motoko Shibamura, Kiyoshi Fukuhara
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PO-29 Rationally designed peptide modulators of amyloid- β toxicity in Alzheimer's disease

Kiyoshi Fukuhara^(a), Kazunori Mori^(a), Yoshio Okiyama^(b), Takashi Misawa^(b), Mirei Mizuno^(a), Yosuke Demizu^(b), Motoko Shibamura^(a), Akiko Ohno^(b)

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PO-30 Comprehensive exploration of three-dimensional chemical space by trisubstituted carboranes for discovery of bioactive molecule

Yasunobu Asawa^(a), Saki Hatsuzawa^(b), Atsushi Yoshimori^(c), Kentaro Yamada^(d), Akira Katoh^(e), Hiroyuki Kouji^(e,f), Hiroyuki Nakamura^(a,g)

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PO-31 Design and Synthesis of Novel Orexin Receptor Dual Agonists with Tetralin Skeleton

Keita Iio^(a, b), Tsuyoshi Saitoh^(b), Ryuichiro Ohshita^(a, b), Tsubasa Hino^(a, b), Mao Amezawa^(a, b), Sayaka Ohrai^(b), Takahiro Okada^(a, b), Yasuyuki Nagumo^(b), Naoshi Yamamoto^(b), Yukiko Ishikawa^(b), Yoko Irukayama-Tomobe^(b), Noriki Kutsumura^(a, b), Masashi Yanagisawa^(b), Hiroshi Nagase^(a, b)

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PO-32 Design, synthesis, biological evaluation, and molecular modeling of new *N*-(1*H*-indole-5-yl) benzamide derivatives

Jiyu Woo^(a), Ahmed Elkamhawy^(a,b), Noha Gouda^(a), Eun Joo Roh^(c,d), Jungsook Cho^(a), Ki Duk Park^(d,e,g), Kyeong Lee^(a)

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PO-33 Structure-Activity Relationship Study Focusing on 3-*epi*-Deoxyneomycin for Readthrough Activity

Noriko Omura^(a), Akihiro Taguchi^(a), Keisuke Hamada^(a), Tomoki Kuwahara^(b), Mizuki Watanabe^(b), Masanori Nakakuki^(c), Sho Konno^(a), Kentaro Takayama^(a), Atsuhiko Taniguchi^(a), Toshifumi Nomura^(d, e), Satoshi Shuto^(b), Yoshio Hayashi^(a)

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- PO-34 Design and Synthesis of Benzene Congeners of specialized pro-resolving lipid mediator resolvin E2 as its Stable Equivalents**
Shinei Tanaka^(a), Koichi Fujiwara^(a), Yuto Murakami^(a), Hayato Fukuda^(b), Jun Ishihara^(b), Mizuki Watanabe^(a), Satoshi Shuto^(a)
^(a) Faculty of Pharmaceutical Sciences, Hokkaido University
^(b) Graduate School of Biomedical Sciences, Nagasaki University
- PO-35 Development of continuous-flow photoredox reactor and its application for the extension of BioBlocks' comprehensive fragment library (CFL)**
Ildikó Nagy^(a), Blanka Rinyu^(a), Balázs Fábrián^(a), Balázs Gyimóthy^(a), Dávid Király^(a), Katalin E. Szabó^(a), Tímea Mozsár^(a), Ádám Lovász^(a), Judit Kámán^(a), János Gerencsér^(a), Péter V. Pallai^(b)
^(a) BioBlocks Magyarország Kft
^(b) BioBlocks Inc.
- PO-36 Novel Aprosamine Derivatives Active Against Multidrug-resistant Gram-negative Bacteria**
Yasunari Otsuka, Eijiro Umemura, Yoshiaki Takahashi, Chigusa Hayashi, Masayuki Igarashi, Kiyoko Iijima, Masakatsu Shibasaki
Institute of Microbial Chemistry (BIKAKEN)
- PO-37 Discovery of Vinyl-stilbene Analogs: A Potent, Metabolically Stable, and Safe Norovirus Replication Inhibitor**
Hwayoung Lee, Dipesh S. Harmalkar, Qili Lu, Guofeng Quan, Choongho Lee, Kyeong Lee
BK21 FOUR Team and Integrated Research Institute for Drug Development, College of Pharmacy, Dongguk University
- PO-38 Synthesis of Conformationally Restricted GABA Analogues as Betaine/GABA Transporter BGT1 Inhibitors: Construction of the Bicyclo[3.1.0]hexene and [4.1.0]heptene Backbones by RCMs with a Common Diene Substrate**
Naoki Saito, Keisuke Mitsui, Koichi Fujiwara, Mizuki Watanabe, Satoshi Shuto
Faculty of Pharmaceutical Sciences, Hokkaido University
- PO-39 Discovery of a potent, selective, and orally available MTHFD2 inhibitor with in vivo anti-tumor activity**
Junya Kawai^(a), Tadashi Toki^(a), Masahiro Ota^(b), Hidekazu Inoue^(a), Yoshimi Takata^(a), Takashi Asahi^(a), Makoto Suzuki^(b), Takashi Shimada^(b), Kaori Ono^(b), Kanae Suzuki^(a), Sachiko Takaishi^(a), Hitoshi Ohki^(a), Satoshi Matsui^(a), Chika Sugihara^(b), Norikazu Matsuhashi^(b), Yumi Matsui^(b), Shinji Tsutsumi^(a), Yasuhide Hirota^(a), Kiyoshi Nakayama^(a)
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PO-40 Development of novel δ opioid receptor selective agonists with pyrazolomorphinan skeleton

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PO-41 Discovery of a novel bicyclic compound, DS34942424, as an orally potent analgesic without mu-opioid receptor agonist activity

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PO-42 Synthesis of anti-mycobacterial 3-(2-arylethylamino)quinolines inspired by marine natural product

Junya Mukomura^(a), Hiroki Nonaka^(b), Kazuhiro Nishioka^(a), Hiromasa Sato^(b), Masayoshi Arai^(b), Naoyuki Kotoku^(a)

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PO-43 Discovery of *N*-Aryl-5-methylisoxazole-3-carboxamide derivatives as FMS kinase Inhibitors.

Jihyun Baek, Hyejin Kim, Joonhong Jun, Dahyun Kang, Jung-Mi Hah

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PO-44 Development of Peptide Alkaloid-type Compound Library Based on Brefeldin A by Molecular Skeleton Recombination Strategy

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PO-45 A novel PLK1 inhibitor scaffold from a hybridized 3D-QSAR models

Hyejin Kim, Hyunwook Cho, Hyunah Bae, Hoyong Jung, Jihyun Baek, Joonhong Jun, Jung-Mi Hah

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PO-46 Design and Synthesis of 2,6-Disubstituted-4'-Selenoadenosine-5'-N,N-Dimethyluronamide Derivatives as Human A₃ Adenosine Receptor Antagonists

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E: Chemical biology

PO-47 Development of helix-stabilized hydrophobic/cationic-block peptides for intracellular delivery of biomacromolecules

Takashi Misawa^(a), Nobumichi Ohoka^(a), Motoharu Hirano^(b), Makoto Oba^(c), Takao Inoue^(a), Yosuke Demizu^(a, b)

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PO-48 Visualization of live cell RNA G-quadruplexes by macrocyclic hexaoxazole

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^(b) Division of Molecular Biotherapy, Cancer Chemotherapy Center, Japanese Foundation for Cancer Research

PO-49 Chemical biology of leucinoastatin A and its analogs, modulators of tumor-stroma interaction

Hikaru Abe^(a), Manabu Kawada^(a), Tomokazu Ohishi^(b), Chiharu Sakashita^(a), Uzama Saqib^(c), Miraza S. Baig^(d), Shun-ichi Ohba^(b), Hiroyuki Inoue^(b), Takumi Watanabe^(a), Masakatsu Shibasaki^(a)

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PO-50 Development of peptide-photooxygenation catalyst conjugates that efficiently oxygenate myostatin

Hideyuki Okamoto^(a), Atsuhiko Taniguchi^(a), Shoya Usami^(a), Masahiro Katsuyama^(a), Sho Konno^(a), Akihiro Taguchi^(a), Kentaro Takayama^(a, b), Yoshio Hayashi^(a)

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^(b) Department of Environmental Biochemistry, Kyoto Pharmaceutical University

PO-51 A chemical proteomics platform reveals eIF3i as the direct cellular target of lenalidomide

Zhi Lin^(a), Yuka Amako^(a), Farah Kabir^(a), Hope A. Flaxman^(a), Bogdan Budnik^(b), Christina M. Woo^(a)

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PO-52 Development of ciclesonide analogues that block SARS-CoV-2 RNA replicaton

Genichiro Tsuji^(a), Kenzo Yonemitsu^(a), Takahito Ito^(a), Masashi Uema^(a), Hiroshi Asakura^(a), Yosuke Demizu^(a, b)

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PO-53 Unique Activity of C-isomaltose analogues in fungal gene expression

Takahiro Moriyama^(a), Naoki Kato^(b), Noriaki Kiya^(a), Riko Tanabe^(a), Makoto Yoritate^(a), Minoru Numamoto^(b), Shunji Takahashi^(c), Go Hirai^(a)

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PO-54 Astrocytic cAMP decreases the density of hippocampal astrocytes

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PO-55 Induction of Paraptosis in Cancer Cells by Cyclometalated Iridium(III) Complex-Peptide Hybrids and its Mechanistic Study

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PO-56 Design, Synthesis and BNCT (Boron Neutron Capture Therapy) Activity of Boron-Containing Macrocyclic Polyamines

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PO-57 Development of photoactivatable oxidative stress inducer

Mieko Tsuji, Haruno Taira, Tasuku Hirayama, Hideko Nagasawa

Laboratory of Medicinal and Pharmaceutical Chemistry, Gifu Pharmaceutical University

PO-58 Development of a heme-selective fluorescent probe

Tasuku Hirayama^(a), Kanta Kawai^(a), Mieko Tsuji^(a), Takanori Murakami^(b), Masatoshi Inden^(b), Hideko Nagasawa^(a)

^(a) Laboratory of Pharmaceutical and Medicinal Chemistry, Gifu Pharmaceutical University

^(b) Laboratory of Medical Therapeutics and Molecular Therapeutics, Gifu Pharmaceutical University

PO-59 Development of Subtype-Selective Liver X Receptor (LXR) Ligands Using Silicon Functionalities

Nao Namba^(a), Yuichiro Matsumoto^(b), Yuichi Hashimoto^(b), Tomomi Noguchi-Yachide^(b), Hiroyuki Kagechika^(a), Shinya Fujii^(a)

^(a) Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University

^(b) Institute for Quantitative Biosciences, The University of Tokyo

PO-60 Catenane Formation as a Novel and General Caging Strategy for Bioactive Macrocycles

Hidenori Hashimoto, Masafumi Takada, Yosuke Hisamatsu, Naoki Umezawa, Tsunehiko Higuchi

Graduate School of Pharmaceutical Sciences, Nagoya City University

PO-61 Fluorescent Labeling Probes that Selectively Recognize Intracellular/Cell-Surface Proteins

Yuichiro Hori, Miyako Nishiura, Kazuya Kikuchi

Osaka University

PO-62 Chrono Chemical Biology of PHA and BML

Ami N. Saito^(a), Tomoaki T. Takahara^(a), Eisuke Ota^(a), Norihito Nakamichi^(b), Junichiro Yamaguchi^(a)

^(a) Department of Applied Chemistry, Waseda University

^(b) Graduate School of Bioagricultural Sciences, Nagoya University

PO-63 Octaarginine, modified with dipicolylamine/metal, promotes interaction with membranes and direct penetration into cells

Yoshimasa Kawaguchi, Ise Shoko, Toshihide Takeuchi, Kenichi Kawano, Junko Ohkanda, Shiroh Futaki

Institute for Chemical Research, Kyoto University

PO-64 Pepducin-directed fluorescent labelling of PAR1 for identification of target region

Takumi Kariya^(a, b), Kosuke Dodo^(c), Daisuke Mizutani^(b), Mieko Tsuji^(a), Tasuku Hirayama^(a), Mikiko Sodeoka^(c), Osamu Kozawa^(b), Hideko Nagasawa^(a)

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^(b) Department of Pharmacology, Gifu University Graduate School of Medicine

^(c) RIKEN Cluster for Pioneering Research and RIKEN Center for Sustainable Resource Science

PO-65 Developing artificial catalyst system for epigenome manipulation in living cells

Akiko Fujimura^(a), Tadashi Ishiguro^(a), Yuto Azumaya^(a), Hisashi Ishida^(b), Hidetoshi Kono^(b), Tomoya Kujirai^(c), Yoshimasa Takizawa^(c), Hitoshi Kurumizaka^(c), Kenzo Yamatsugu^(a), Shigehiro A Kawashima^(a), Motomu Kanai^(a)

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^(b) Molecular Modeling and Simulation Group, Department of Quantum Beam Life Science, National Institutes for Quantum and Radiological Science and Technology

^(c) Institute for Quantitative Biosciences, The University of Tokyo

F: Synthetic methodology, Reaction development

PO-66 Synthesis of α -Substituted Indolylacetamides through *O*-Transfer Reactions of Hemiaminals

Takumi Abe, Kenta Noda, Daisuke Sawada

Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University

PO-67 Development of novel Cys-Trp-linking reaction using *S*-protected cysteine sulfoxide for the synthesis of Amatoxin derivatives

Daishiro Kobayashi^(a), Yutaka Kohmura^(a), Toshihiko Sugiki^(b), Eisuke Kuraoka^(a), Masaya Denda^(a), Toshimichi Fujiwara^(b), Akira Otaka^(a)

^(a) Institute of Biomedical Sciences and Graduate School of Pharmaceutical Sciences, Tokushima University

^(b) Institute of Protein Research, Osaka University

PO-68 Synthesis and Application of 3-Bromo-2-hydroxy-1-tosylazaindolines

Takahide Nishi, Koji Yamada, Naoki Mishima, Kanae Saito

Faculty of Pharmaceutical Sciences, Health Sciences University of Hokkaido

PO-69 Catalytic α -Deuteration of Carboxylic Acids

Tsukushi Tanaka, Akito Tsuruta, Naoya Matsunaga, Satoru Koyanagi, Shigehiro Ohdo, Ryo Yazaki, Takashi Ohshima

^(a) Graduate School of Pharmaceutical Sciences, Kyushu University

- PO-70 Silane- and Peroxide-Free Hydrogen Atom Transfer Hydrogenation Using Ascorbic Acid and Cobalt-Photoredox Dual Catalysis**
Masahiro Kojima^(a), Yuji Kamei^(a), Yusuke Seino^(a), Yuto Yamaguchi^(a), Tatsuhiko Yoshino^(a), Satoshi Maeda^(b, c, d), Shigeki Matsunaga^(a, e)
^(a) Hokkaido University, Faculty of Pharmaceutical Sciences
^(b) WPI-ICReDD
^(c) Hokkaido University, Faculty of Science, Department of Chemistry
^(d) JST-ERATO
^(e) GI-CoRE
- PO-71 α -Allylation of Carboxylic Acids Driven by Boron Catalyst and Visible Light**
Yohei Shimizu^(a, b), Kai Sun^(b), Masato Ueno^(b), Keisuke Imaeda^(b), Kosei Ueno^(b), Masaya Sawamura^(a, b)
^(a) Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University
^(b) Department of Chemistry, Faculty of Science, Hokkaido University
- PO-72 Generation of Functionalized Alkyl Radicals via the Direct Photo-Excitation of 2,2'-(Pyridine-2,6-diyl)diphenol-Based Borates**
Yusuke Miyamoto^(a), Yuto Sumida^(a), Hirohisa Ohmiya^(a, b)
^(a) Graduate School of Medical Sciences, Division of Pharmaceutical Sciences, Kanazawa University
^(b) JST PRESTO
- PO-73 Ruthenium-Catalyzed Oxidative Dehydrogenation of Alcohols with Carbodiimide via Hydrogen Transfer Mechanism**
Shunsuke Sueki, Mizuki Matsuyama, Azumi Watanabe, Arata Kanemaki, Kazuaki Katakawa, Masahiro Anada
Musashino University
- PO-74 Development of Visible-Light Mediated Alkylfluorination of Alkenes**
Eunbin Jang, Hoein Kim, Hyesu Jang, Jaehoon Sim
College of Pharmacy, Chungnam National University
- PO-75 Light-Driven Cyclopropanation of Alkenes with Iodomethylborate**
Rikako Nakamura^(a), Yuto Sumida^(a), Hirohisa Ohmiya^(a, b)
^(a) Graduate School of Medical Sciences, Division of Pharmaceutical Sciences, Kanazawa University
^(b) JST PRESTO

- PO-76 Asymmetric Dearomative Fluorination of 2-Naphthols with Dicarboxylate Phase-Transfer Catalyst**
Hiromichi Egami, Taiki Rouno, Tomoki Niwa, Kousuke Masuda, Kenji Yamashita, Yoshitaka Hamashima
School of Pharmaceutical Sciences, University of Shizuoka
- PO-77 Modular synthesis of HIV-1 protease analogue by disulfide ligation using 4-fluorophenyl 3-nitro-2-pyridinesulfenate (Npys-OPh(pF))**
Yan Cui^(a), Akihiro Taguchi^(a), Hayate Shida^(a), Kiyotaka Kobayashi^(a), Sho Komno^(a), Kentaro Takayama^(a, b), Atsuhiko Taniguchi^(a), Yoshio Hayashi^(a)
^(a) Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences
^(b) Department of Environmental Biochemistry, Kyoto Pharmaceutical University
- PO-78 Asymmetric Synthesis of Enterolactone Using Ir Catalyzed Tischenko Reaction**
Rui Jiang, Ismiyanto, Yuki Adachi, Tsukasa Abe, Da-Yang Zhou, Kaori Asano, Hiroaki Sasai, Takayoshi Suzuki, Takeyuki Suzuki
Sanken, Osaka University
- PO-79 Design, Synthesis, and Implementation of Sodium Silylsilanolates as Silyl Transfer Reagents**
Jun Shimokawa, Hiroki Yamagishi, Kenshiro Hitoshio, Hayate Saito, Hideki Yorimitsu
Graduate School of Science, Kyoto University
- PO-80 Dual-Role Catalysis by Thiobenzoic Acid in C α -H Arylation under Photoirradiation**
Fumihisa Kobayashi, Masashi Fujita, Takafumi Ide, Yuta Ito, Kenji Yamashita, Hiromichi Egami, Yoshitaka Hamashima
School of Pharmaceutical Science, University of Shizuoka
- PO-81 Stereoselective Synthesis of Propionate-Derived Trisubstituted Alkene Motifs**
Naoki Oku^(a), Tomoya Miura^(a, b), Masahiro Murakami^(a)
^(a) Department of Synthetic Chemistry and Biological Chemistry, Kyoto University
^(b) Present Address: Division of Applied Chemistry, Graduate School of Natural Science and Technology, Okayama University
- PO-82 Chiral phosphine oxide catalysis for asymmetric aldol reaction of carboxylic acids**
Shunsuke Kotani, Yusaku Yoshiwara, Makoto Nakajima
Graduate School of Pharmaceutical Sciences, Kumamoto University

PO-83 Rapid photoracemization of chiral alkyl aryl sulfoxides

Kosho Makino^(a), Kumi Tozawa^(a), Yuki Tanaka^(a), Akiko Inagaki^(b), Hidetsugu Tabata^(c), Tetsuta Oshitari^(c), Hideaki Natsugari^(d), Hideyo Takahashi^(a)

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^(b) Department of Chemistry, Tokyo Metropolitan University

^(c) Faculty of Pharma Sciences, Teikyo University

^(d) Graduate School of Pharmaceutical Science, The University of Tokyo

PO-84 Regioselective Hydrosilylation and Rapid Derivatization of Alkynes using Epoxide-Bearing Silanes

Soya Koremura, Akihiro Sugawara, Yusuke Sasano, Haruhisa Kikuchi

Graduate School of Pharmaceutical Sciences, Tohoku University

PO-85 Proton-Accelerated Lewis Acid Catalysis for Stereo- and Regioselective Isomerization of Epoxides to Allylic Alcohols

Masahiro Noji, Misako Baba, Rina Hirabe, Satoshi Hayashi, Toshikatsu Takanami

Meiji Pharmaceutical University

PO-86 Parallel kinetic resolution via bromocyclization enabled by novel concerted catalysis of chiral bisphosphine oxide

Kenji Yamashita^(a), Ryo Hirokawa^(a), Mamoru Ichikawa^(a), Tatsunari Hisanaga^(a), Ryo Takita^(b), Kohei Watanabe^(b), Yuji Kawato^(a), Yoshitaka Hamashima^(a)

^(a) School of Pharmaceutical Sciences, University of Shizuoka

^(b) Graduate School of Pharmaceutical Sciences, The University of Tokyo

PO-87 Synthesis of Oxazoles via Rhodium-Catalyzed Denitrogenative Transformation of Triazoles with Esters

Yuya Kaieda, Kosuke Yamamoto, Masami Kuriyama, Osamu Onomura

Graduate School of Biomedical Sciences, Nagasaki University

PO-88 Stereoselective Synthesis of α,α -Disubstituted Amino Acid-Containing (Z)-Chloroalkene Dipeptide Isosteres

Yuki Kodama^(a), Saki Imai^(b), Junko Fujimoto^(c), Kohei Sato^(a, b, c), Nobuyuki Mase^(a, b, c), Tetsuo Narumi^(a, b, c)

^(a) Graduate School of Science and Technology, Shizuoka University

^(b) Graduate School of Integrated Science and Technology, Shizuoka University

^(c) Faculty of Engineering, Shizuoka University

PO-89 Development of new one-pot synthetic method for cyclic disulfide peptides based on 3-nitro-2-pyridinesulfenates

Hayate Shida^(a), Akihiro Taguchi^(a), Kiyotaka Kobayashi^(a), Yan Cui^(a), Sho Konno^(a), Kentaro Takayama^(a, b), Atsuhiko Taniguchi^(a), Yoshio Hayashi^(a)

^(a) School of Pharmacy, Tokyo University of Pharmacy and Life Sciences

^(b) Department of Environmental Biochemistry, Kyoto Pharmaceutical University

PO-90 Chemoselective alkoxylation in the synthesis of β - λ^3 -iodanyl- β -silyl enol ethers using $\text{BF}_3\text{-O}^i\text{Pr}_2$ and alkyl benzyl ethers

Takuya Matsumoto^(a), Hiroshi Hagiya^(b), Kanetsugu Kuribayashi^(a), Kazuhito Hioki^(b), Hikaru Fujita^(a), Masahito Ochiai^(c), Munetaka Kunishima^(a)

^(a) Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical, and Health Sciences, Kanazawa University

^(b) Faculty of Pharmaceutical Sciences, Kobe Gakuin University

^(c) Graduate School of Pharmaceutical Sciences, Tokushima University

PO-91 Ni-Catalyzed Aryl Transfer Reaction between Two Different Aromatic Compounds

Ryota Isshiki^(a), Miki B. Kurosawa^(a), Naomi Inayama^(a), Kei Muto^(b), Junichiro Yamaguchi^(a)

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^(b) Institute for Advanced Study, Waseda University

PO-92 Chemoselective Umpolung of Enals for Asymmetric Homoenate Cross-Annulation of Enals and Aldehydes Catalyzed by N-Heterocyclic Carbene

Tetsuo Narumi^(a, b, c), Junko Fujimoto^(b), Ryuji Ide^(b), Ryuji Kyan^(a), Kohei Sato^(a, b, c), Nobuyuki Mase^(a, b, c)

^(a) Faculty of Engineering, Shizuoka University

^(b) Graduate School of Integrated Science and Technology, Shizuoka University

^(c) Graduate School of Science and Technology, Shizuoka University

PO-93 Chiral Bipyridine Ligand with Flexible Molecular Recognition Site: Application to Copper-Catalyzed Asymmetric Borylation of α,β -Unsaturated Ketones

Masahiro Yamanaka, Ryosuke Tsutsumi, Rika Taguchi

Department of Chemistry, Faculty of Science, Rikkyo University

PO-94 H-D Exchange Deuteration of Fluoroarenes Catalyzed by Pt/C in 2-PrOH/D₂O

Yoshinari Sawama^(a), Kazuho Ban^(a, b), Shuji Akai^(a), Naohito Tomita^(b), Hironao Sajiki^(b)

^(a) Graduate School of Pharmaceutical Sciences, Osaka University

^(b) Gifu Pharmaceutical University

- PO-95 Late-Stage Installation of Dehydroamino Acid Motif into Peptides through Catalytic N-Chlorination of Amides**
Takeshi Nanjo, Takuma Oshita, Ayaka Matsumoto, Yoshiji Takemoto
Graduate School of Pharmaceutical Sciences, Kyoto University
- PO-96 Development of Aerobic Oxidation of Amines with Grubbs Catalyst and Its Application**
Kenta Noda, Daichi Kawauchi, Tatsuki Utsumi, Hirofumi Ueda, Hidetoshi Tokuyama
Graduate School of Pharmaceutical Sciences, Tohoku University
- PO-97 Pd-Catalyzed Dearomative Alkylation of Bromoarenes with Diazo Compounds and Malonates**
Hiroki Kato^(a), Itsuki Musha^(a), Masaaki Komatsuda^(a), Kei Muto^(b), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Institute for Advanced Study, Waseda University
- PO-98 Regioselective C–O Bond Homolysis of Epoxides with Zirconocene-Photoredox Catalysis**
Kazuhiro Aida^(a), Marina Hirao^(a), Aiko Funabashi^(a), Natsuhiko Sugimura^(b), Eisuke Ota^(a), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Materials Characterization Central Laboratory, Waseda University
- PO-99 Benzimidazoline: A New Toolkit for Photocatalytic Intermolecular Hydroacylation of Unactivated Alkenes and Relevant Photocatalytic Transformation**
Yutaka Saga^(a, b), Yusuke Nakayama^(a), Taito Watanabe^(a), Mio Kondo^(a, b, c), Shigeyuki Masaoka^(a, b)
^(a) Division of Applied Chemistry, Graduate School of Engineering, Osaka University
^(b) Innovative Catalysis Science Division, Institute for Open and Transdisciplinary Research Initiatives (ICS-OTRI), Osaka University
^(c) JST, PRESTO
- PO-100 Synthesis of a Novel Triazolopyridinylidene Ligand toward Inert Bond Activation**
Keiichiro Iizumi^(a), Kenta Kato^(b), Kei Muto^(c), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Waseda Research Institute for Science and Engineering, Waseda University
^(c) Institute for Advanced Study, Waseda University

- PO-101 Ring-breaking Fluorination of Heteroaromatics**
Masaaki Komatsuda, Hiroki Kondo, Ayane Suto, Junichiro Yamaguchi
Department of Applied Chemistry, Waseda University
- PO-102 Oxidative cross-coupling of 3-hydroxycarbazoles catalysed by a mesoporous silica-supported oxovanadium**
Kyohei Kanomata, Kengo Kasama, Karin Mizuno, Shuji Akai
Graduate School of Pharmaceutical Sciences, Osaka University
- PO-103 Development of an Asymmetric Intramolecular Buchner Reaction of α -Diazoesters and Synthetic Study toward Pseudolaric Acid B**
Takayuki Hoshi, Eisuke Ota, Junichiro Yamaguchi
Department of Applied Chemistry, Waseda University
- PO-104 Pd-Catalyzed Denitrative Mizoroki–Heck Reaction**
Kitty K. Asahara^(a), Toshimasa Okita^(a), Kei Muto^(b), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Institute for Advanced Study, Waseda University
- PO-105 Dechlorinative Functionalization of Alkyl Chlorides using Zirconocene and Photoredox Catalysis**
Toshimasa Okita, Keisuke Tanaka, Eisuke Ota, Junichiro Yamaguchi
Department of Applied Chemistry, Waseda University
- PO-106 Deoxygenative Reaction for Tetraarylethanes, Triarylmethanes, Diarylmethanes**
Miki B. Kurosawa^(a), Mizuho Watanabe^(a), Kei Muto^(b), Kenta Kato^(c), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Institute for Advanced Study, Waseda University
^(c) Waseda Research Institute for Science and Engineering, Waseda University
- PO-107 Aryl Dance Reaction of Arylheteroles**
Hikaru Nakahara^(a), Ryota Isshiki^(a), Kei Muto^(b), Junichiro Yamaguchi^(a)
^(a) Department of Applied Chemistry, Waseda University
^(b) Institute for Advanced Study, Waseda University

PO-108 Pd-Catalyzed 1,4-Carboamination of Bromoarenes with Diazo Compounds and Amines

Qikun Wu^(a), Kei Muto^(b), Junichiro Yamaguchi^(a)

^(a) Department of Applied Chemistry, Waseda University

^(b) Institute for Advanced Study, Waseda University

PO-109 Pd-Catalyzed Tandem Ester Dance/ Decarbonylative Coupling Reactions

Masayuki Kubo, Naomi Inayama, Eisuke Ota, Junichiro Yamaguchi

Department of Applied Chemistry, Waseda University

PO-110 Protection of Secondary Amides with Allyloxymethyl Group and Application to Total Synthesis of (-)-Asteroxepin

Kanato Umeki, **Yusuke Ueda**, Juri Sakata, Hidetoshi Tokuyama

Graduate School of Pharmaceutical Sciences, Tohoku University

PO-111 Catalytic Silylative Discrimination of Primary Alcohols via Remote Functional Group Recognition

Yoshihiro Ueda^(a), Hisashi Hashimoto^(a), Takeo Kawabata^(a, b)

^(a) Institute for Chemical Research, Kyoto University

^(b) Department of Pharmaceutical Sciences, International University of Health and Welfare

PO-112 Direct Nucleophilic Substitution of Alcohols Using an Immobilized Oxovanadium Catalyst

Tomoya Nishio, Kyohei Kanomata, Shin Yoshioka, Kai Hasegawa, Kenzo Yahata, Shuji Akai

Graduate School of Pharmaceutical Sciences, Osaka University

PO-113 Pd-catalyzed Tsuji-Trost Allylation of Allylic Alcohols Accelerated by Al-doped Mesoporous Silica Support

Siming Ding^(a), Yuichi Manaka^(a, b), Ken Motokura^(a, c)

^(a) School of Materials and Chemical Technology, Tokyo Institute of Technology

^(b) Renewable Energy Research Center, National Institute of Advanced Industrial Science and Technology

^(c) Faculty of Engineering, Yokohama National University

PO-114 Boron-Catalyzed Chemoselective Enolization of Carboxylic Acids and Its Applications: Mannich-Type Reaction, Allylation and Aldol Reaction

Taiki Fujita^(a), Chen Hongyu^(a), Mina Yamane^(a), Yuya Morita^(a), Hideoki Nagai^(a), Tomohiro Yamamoto^(a), W. M. C. Sameera^(b), Shigeru Yamamaguchi^(c), Yohei Shimizu^(a), Harunobu Mitsunuma^(a), Motomu Kanai^(a)

^(a) Graduate School of Pharmaceutical Sciences, The University of Tokyo

^(b) Institute of Low Temperature, Hokkaido University

^(c) RIKEN Center for Sustainable Resource Science

PO-115 Tyr-Selective Protein Modification with Iminoxyl Radicals

Katsuya Maruyama, Takashi Ishiyama, Yohei Seki, Kentaro Sakai, Takaya Togo, Kounosuke Oisaki, Motomu Kanai

Graduate School of Pharmaceutical Sciences, The University of Tokyo

G: Small molecules: total synthesis, structure determination, analysis, purification

PO-116 Total Synthesis of Thuggacin cmc-A and Its Structure Determination

Tomohiro Tsutsumi^(a), Moe Matsumoto^(a), Hitomi Iwasaki^(a), Kei Tomisawa^(a), Keita Komine^(a), Hayato Fukuda^(a), Jacques Eustache^(b), Susumi Hatakeyama^(c), Jun Ishihara^(a)

^(a) Graduate School of Biomedical Sciences, Nagasaki University

^(b) École Nationale Supérieure de Chimie de Mulhouse, Université de Haute-Alsace

^(c) Medical Innovation Center, Nagasaki University

PO-117 Synthetic Study of Zetekitoxin AB Focused on Construction of the N-Acylisoxazolidine-Containing Macrocyclic Structure

Hayate Ishizuka, Yuka Takayanagi, Ayato Nureki, Kazuo Nagasawa

Tokyo University of Agriculture and Technology

PO-118 Atropisomeric properties of 9-methyl-1,4-benzodiazepin-2-ones

Ryoko Tanaka^(a), Kosho Makino^(a), Hidetsugu Tabata^(b), Tetsuta Oshitari^(b), Hideaki Natsugari^(c), Hideyo Takahashi^(a)

^(a) Faculty of Pharmaceutical Sciences, Tokyo University of Science

^(b) Faculty of Pharma Sciences, Teikyo University

^(c) Graduate School of Pharmaceutical Science, The University of Tokyo

PO-119 Synthetic study toward natural chromenoquinone teretifolione B via chiral chromene synthesis

Takuya Kumamoto^(a), Mika Kainuma^(b), Yuki Wakamiya^(c), Kazuaki Katakawa^(b)

^(a) Graduate School of Biomedical and Health Sciences, Hiroshima University

^(b) Research Institute of Pharmaceutical Sciences, Musashino University

^(c) School of Pharmaceutical Sciences, Hiroshima University

PO-120 Formal Synthesis of (±)-Morphine by a Tandem Oxidation/ Intramolecular Diels–Alder Strategy

Sousuke Ito, Mirai Kage, Toshiki Akiyama, Hiroyuki Yamakoshi, Seiichi Nakamura
Graduate School of Pharmaceutical Sciences, Nagoya City University

PO-121 Structural optimization of gingerol-based RhIR antagonists

Taehyeong Lim^(a), So-Young Ham^(b), Hee-Deung Park^(b), Youngjoo Byun^(a)

^(a) College of Pharmacy, Korea University

^(b) School of Civil, Environmental and Architectural Engineering, Korea University

PO-122 Flavonoid analogs as new inhibitors of inositol phosphate kinases

Myunghwan Ahn^(a), Seung Eun Park^(b), Seyun Kim^(b), Youngjoo Byun^(a)

^(a) College of Pharmacy, Korea University

^(b) Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology (KAIST)

PO-123 Synthesis and biochemical evaluation of oxazole analogs as new interleukin-33 inhibitors

Geonhee Jang^(a), Eun Ji Kim^(b), Daye Kim^(b), Young Ho Jeon^(a), Youngjoo Byun^(a)

^(a) College of Pharmacy, Korea University

^(b) Azcuris Inc.

PO-124 Synthesis and in vitro evaluation of new antagonists targeting P2X7 receptor

Shinyoung Lee^(a), Lan Phuong Nguyen^(b), Hyunsoo Ha^(a), Jong-Ik Hwang^(b), Youngjoo Byun^(a)

^(a) College of Pharmacy, Korea University

^(b) Department of Biomedical Science, Korea University College of Medicine

PO-125 Synthesis and biological evaluation of novel analogs of arenastatin A by late-stage functionalization

Kohei Hatta, Maho Kishimoto, Yurina Mihara, Naoyuki Kotoku

Graduate School of Pharmaceutical Sciences, Ritsumeikan University

PO-126 Importance of Intermolecular Hydrogen Bond for the Amide Bond Formation of Benzotriazole Esters Derived from Amino Acids

Junko Fujimoto^(a), Kohei Sato^(a, b), Nobuyuki Mase^(a, b), Tetsuo Narumi^(a, b)

^(a) Faculty of Engineering, Shizuoka University

^(b) Department of Engineering, Graduate School of Integrated Science and Technology

PO-127 Synthetic Study toward Nosiheptide

Takashi Asako^(a), Kazuma Amaike^(b), Eisuke Ota^(a), Junichiro Yamaguchi^(a)

^(a) Department of Applied Chemistry, Waseda University

^(b) Department of Chemistry, Nagoya University

PO-128 Synthetic Studies on (+)-Strictamine

Yoshiyuki Komatsu, **Masato Yamanashi**, Daisuke Motoki, Hirofumi Ueda, Hidetoshi Tokuyama

Graduate School of Pharmaceutical Science, Tohoku University

PO-129 Design, Synthesis, and Monoamine Oxidase Inhibitory Activity of (+)-Cinchonaminone and Its Simplified Derivatives

Yuta Sato^(a), Naoko Oyobe^(a), Takao Ogawa^(b), Sayo Suzuki^(c), Hiroshi Aoyama^(a), Tomonori Nakamura^(c), Hiromichi Fujioka^(a), Satoshi Shuto^(b), Mitsuhiro Arisawa^(a)

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^(b) Faculty of Pharmaceutical Sciences, Hokkaido University

^(c) Graduate School of Pharmaceutical Sciences, Keio University

PO-130 Total Synthesis and Biological Evaluation of the Potent HIV Latency- reversing Agent Ansellone A and its Analogues

Kenichi Murai^(a), Mizushi Yanagihara^(a), Naoki Kishimoto^(b), Towa Abe^(b), Shogo Misumi^(b), Mitsuhiro Arisawa^(a)

^(a) Graduate School of Pharmaceutical Sciences, Osaka University

^(b) Faculty of Medical and Pharmaceutical Sciences, Kumamoto University

PO-131 A Novel Scaffold of 1-Pyrimidinyl-2-Aryl-Heteroaryl Derivatives as Potent and Selective JNK3 Inhibitors

Joonhong Jun, Jihyun Baek, Dahyun Kang, Jung-Mi Hah

Department of Pharmacy, College of Pharmacy, Institute of Pharmaceutical Science and Technology, Hanyang University

H: Middle-size molecules

PO-132 Catalytic Cross-Dehydrogenative Coupling of Amino Acid Schiff Bases with Hydrocarbon Feedstock for Highly Congested Unnatural α -Amino Acid and Peptide Synthesis

Yunosuke Koga, Taro Tsuji, Kayoko Hashiguchi, Mana Yoshida, Tetsu Ikeda, Yusaku Honda, Tsukushi Tanaka, Daisuke Takahashi, Ryo Yazaki, Takashi Ohshima

Graduate school of Pharmaceutical Sciences, Kyushu University

- PO-133 Practical activation of peptide hydrazides in TFA enabling direct synthesis of N-terminal thiazolidine-containing peptide thioesters**
Kohei Sato, Shoko Tanaka, Tetsuo Narumi, Nobuyuki Mase
Graduate School of Science and Technology, Shizuoka University
- PO-134 Synthetic study and biological evaluation of DFGH-ring analogues of physalin-type natural products**
Makoto Yoritake^(a), Yuki Morita^(a), Tomohiro Yamashita^(a), Mikiko Sodeoka^(b), Go Hirai^(a)
(a) Grad. School of Pharm. Sci., Kyushu Univ.
(b) RIKEN CPR and CSRS
- PO-135 Development of Cyclic Peptides with Membrane Permeability by Cyclopropane-Based Conformational Restriction Strategy**
Yuki Yamazaki, Mai Uemura, Yukina Sato, Kouhei Matsui, Nanami Kato, Yoh Takekuma, Mitsuru Sugawara, Mizuki Watanabe, Satoshi Shuto
Faculty of Pharmaceutical Sciences, Hokkaido University
- PO-136 Synthetic Study of Lipid II Analogs**
Ryotaro Okawa^(a), Akira Katsuyama^(a), Fumika Yakushiji^(a), Satoshi Ichikawa^(a, b)
(a) Faculty of Pharmaceutical Sciences, Hokkaido University
(b) GI-CoRE GSD, Hokkaido University
- PO-137 Chemoselective incorporation of hydrophilic tags to poorly soluble peptides using peptide hydrazides**
Shoko Tanaka, Kohei Sato, Tetsuo Narumi, Nobuyuki Mase
Graduate School of Science and Technology, Shizuoka University
- PO-138 Synthesis of 4'-thiomodified cyclic dinucleotide analogs as STING agonists**
Mao Kinoshita, Noriko Saito-Tarashima, Noriaki Minakawa
Graduate School of Pharmaceutical Sciences, Tokushima University

I: Biologics

*There is no poster presentation in this category. We encourage you to attend the oral presentation (OR-31).

J: Others

PO-139 Targeting the kynurenine pathway for tumour detection and characterization by PET and SPECT

Angeliki S. Foscolos^(a), Maria Georgiou^(b), Stylianos Gkionis^(b), Ioanna Roupa^(b), Ioannis Pirmettis^(b), Minas S. Papadopoulos^(b), Aristeidis Chiotellis^(b)

^(a) School of Health Sciences, Department of Pharmacy, Division of Pharmaceutical Chemistry, National and Kapodistrian University of Athens

^(b) Institute of Nuclear & Radiological Sciences & Technology, Energy & Safety, National Center for Scientific Research “Demokritos”

PO-140 Synthesis and antiviral activity evaluation of formycin derivatives with anti-influenza virus activity

Hisashi Takada, Naoki Takizawa, Syouta Shibasaki, Hiroki Asaba, Masayuki Igarashi, Masakatsu Shibasaki, Yoshiaki Takahashi

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PO-141 Establishment of a monoculture system for microglia

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PO-142 Neural circuits for switching innate defensive behaviors

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PO-143 Development of Nanoparticle Composed of BSH and Cationic Polymer for Boron Neutron Capture Therapy (BNCT).

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PO-144 Anticancer activity of sphingosine kinase inhibitors containing heteroatoms tail structure in colorectal cancer cells

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PO-145 In-depth quantitative biochemical analyses reveal molecular and cellular differences between gonyautoxin-producing dinoflagellates

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PO-146 Development of Squaryl Group Modified Sugar Analogs as Potential Regulators of GPR55

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