Poster Presentations

1P-001–073: October 26 (Wednesday) 17:10–19:10

Odd numbers: 17:10–18:10, Even numbers: 18:10–19:10

1P-001 Diastereoselective indolylation of *N*-2-nitrophenylsulfenyl iminopeptide for the synthesis of α-indolylglycine-containing peptide

Tsubasa Inokuma, Kana Masui, Masaya Denda, Akira Otaka, Ken-ichi Yamada (Graduate School of Pharmaceutical Sciences, Tokushima University)

1P-002 Studies on the reaction of polyoxometalate with cysteine-containing peptides

Tatsumi Yokoo, Haruto Yasumiishi, Reika Aoki, Shigekazu Yano, Hiroyuki Konno (Graduate School of Science and Engineering, Yamagata University)

1P-003 Effect of α-position stereochemistries of acyclic α,α-disubstituted α-amino acids for hydrocarbon-stapling of peptides

Sana Kakazu[1], Atsushi Ueda[1], Yui Makura[1], Takuma Kato[2], Mitsunobu Doi[2], Makoto Oba[3], Masakazu Tanaka[1] ([1]Graduate School of Biomedical Sciences, Nagasaki University, [2]Faculty of Pharmacy, Osaka Medical and Pharmaceutical University, [3]Graduate School of Medicine, Kyoto Prefectural University of Medicine)

1P-004 Modification of Titanium Surface with Collagen Model Peptides for Enhanced Titanium-Cell Adhesion

Shun Tanaka, Yoshifumi Aoi, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

1P-005 Comparison of reactivity and preparation of protected amino acids using Ni(II) chiral schiff bases

Arina Nakano[1], Keita Nagaoka[1], Tsubasa Sakamoto[2], Hiroki Moriwaki[2], Hidenori Abe[2], Hiroyuki Konno[1] ([1]Graduate School of Science and Engineering, Yamagata University, [2]Hamari Chemicals Ltd.)

1P-006 Conformational analysis of chiral three-membered ring α,α-disubstituted α-amino acid-containing α-aminoisobutyric acid-based peptides

Kaede Ikegami[1], Yurie Koba[2], Atsushi Ueda[2], Makoto Oba[3], Takuma Kato[4], Mitsunobu Doi[4], Masakazu Tanaka[2] ([1]Faculty of Pharmaceutical Sciences, Nagasaki University, [2]Graduate School of Biomedical Sciences, Nagasaki University, [3]Graduate School of Medical Science, Kyoto Prefectural University of Medicine, [4]Faculty of Pharmacy, Osaka Medical and Pharmaceutical University)

1P-007 Structural stability and calcium ion responsibility of collagen model peptides with and without a carboxy group

Naoki Takemura, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

1P-008 Theoretical analysis of backbone conformational preferences of chloroalkene dipeptide isosteres

Junko Fujimoto[1], Kohei Sato[1,2], Nobuyuki Mase[1,2], Tetsuo Narumi[1,2] ([1]Faculty of Engineering, Shizuoka University, [2]Department of Engineering, Graduate School of Integrated Science and Technology, Shizuoka University)

1P-009 Synthetic Studies on α-Amanitin

Kazuki Matsuo, Yumi Yamashita, Taku Imaizumi, Juri Sakata, Hidetoshi Tokuyama (Graduate School of Pharmaceutical Science, Tohoku University)

1P-010 Chemical synthesis of SARS-VHH72 using a novel one-pot four segment ligation method

Kazuki Ichihashi, Yuya Asahina, Hironobu Hojo (Institute for Protein Research, Osaka University)

1P-011 Design, syntheses and endogenous behavior of novel angiogenic peptides for clinical applications

Yuki Tominaga, Atsushi Kitagawa, Toru Sasaki, Takeshi Kasama, Kiyoshi Nokihara (HiPep Laboratories)

1P-012 Biological characterization of antimicrobial peptides identified from the *Liocheles australasiae* scorpion venom

Sayaka Kawai, Ryota Okabe, Naoya Mitani, Masahiro Miyashita, Yoshiaki Nakagawa, Hisashi Miyagawa (Graduate School of Agriculture, Kyoto University)

1P-013 Synthetic study on microvionin for the stereochemical assignment of the avionin moiety

Ayuta Yamaguchi, Shinsuke Inuki, Norihito Arichi, Shinya Oishi, Hiroaki Ohno (Graduate School of Pharmaceutical Sciences, Kyoto University)

1P-014 Reversible detection method for amino groups: solid phase synthesis of stylissamide H and euryjanicin A, and reconfirmation of these chemical structures

Seren Osanai, Keigo Takamatsu, Hiroyuki Konno (Graduate School of Science and Engineering, Yamagata University)

1P-015 Synthesis and biological characterization of the two-domain peptide LaIT4 from the *Liocheles australasiae* scorpion venom

Yuumi Fujita, Masahiro Miyashita, Yoshiaki Nakagawa, Hisashi Miyagawa (Graduate School of Agriculture, Kyoto University)

1P-016 Chemical synthesis of the insecticidal peptide LaIT3 identified from the *Liocheles australasiae* scorpion venom

Shoichi Sakai, Masahiro Miyashita, Yoshiaki Nakagawa, Hisashi Miyagawa (Graduate School of Agriculture, Kyoto University)

1P-017 Micro-flow synthesis of peptides

Shinichiro Fuse (Graduate School of Pharmaceutical Sciences, Nagoya University)

1P-018 Posttranslational backbone-acyl shift yields polyketide-like units in peptides

Tomohiro Kuroda, Yichao Huang, Soichiro Nishio, Yuki Goto, Hiroaki Suga (Department of Chemistry, Graduate School of Science, The University of Tokyo)

1P-019 Development of one-pot/stepwise disulfide bond-forming reaction enabled by *S*-protected cysteine sulfoxide with its application to insulin synthesis

Kota Hidaka, Daishiro Kobayashi, Junya Hayashi, Kento Ohkawachi, Masaya Denda, Akira Otaka (Institute of Biomedical Sciences and Graduate School of Pharmaceutical Sciences, Tokushima University)

1P-020 Development of the facile synthetic method for ghrelin and its application to the newly identified gecko ghrelin

Hidekazu Katayama[1], Hiroyuki Kaiya[2,3] ([1]Department of Bioengineering, School of Engineering, Tokai University, [2]Department of Biochemistry, National Cerebral and Cardiovascular Center Research Institute, [3]Research Division of Drug Discovery, Grandsoul Research Institute for Immunology, Inc.)

1P-021 Rapid synthesis of glycoinsulin derivatives by flow-based peptide synthesis

Yuta Maki[1,2,3], Surin K. Mong[3], Ryo Okamoto[1,2], Yasuhiro Kajihara[1,2], Bradley L. Pentelute[3] ([1]Department of Chemistry, Graduate School of Science, Osaka University, [2]Forefront Research Center, Graduate School of Science, Osaka University, [3]Department of Chemistry, Massachusetts Institute of Technology)

1P-022 Development of Electrochemical Peptide Synthesis for Greener Production

Shingo Nagahara, Yohei Okada, Yoshikazu Kitano, Kazuhiro Chiba (Department of Applied Biological Science, Tokyo University of Agriculture and Technology)

1P-023 C(sp^3)–H chlorination of oligopeptides through *N*-chloroamides

Takeshi Nanjo, Ayaka Matsumoto, Takuma Oshita, Yoshiji Takemoto (Graduate School of Pharmaceutical Sciences, Kyoto University)

1P-024 Semi-synthetic study of glycoprotein interleukin-6 via a novel folding-assisted thioesterification method

Yanbo Liu[1], Ryo Okamoto[1,2], Yuta Maki[1,2], Yasuhiro Kajihara[1,2] ([1]Graduate School of Science, Osaka University, [2]Project Research Center for Fundamental Science, Osaka University)

1P-025 Design of MDM2-binding peptoids and evaluation of the binding modes

Marin Yokomine[1], Jumpei Morimoto[1], Yasuhiro Fukuda[1], Daisuke Kuroda[1], Takumi Ueda[2], Koh Takeuchi[2], Satoru Nagatoishi[3], Kouhei Tsumoto[1,3], Shinsuke Sando[1] ([1]Graduate School of Engineering, The University of Tokyo, [2]Graduate School of Pharmaceutical Sciences, The University of Tokyo, [3]Institute of Medical Science, The University of Tokyo)

1P-026 Molecular function of the C-terminal amidated asparagine-deleted peptide derived from endogenous neuromedin U

Kentaro Takayama[1,2], Kenji Mori[3], Risa Saitoh[2], Yu Sasaki[2], Akihiro Taguchi[2], Atsuhiko Taniguchi[2], Mikiya Miyazato[3], Yoshio Hayashi[2] ([1]Department of Environmental Biochemistry, Kyoto Pharmaceutical University, [2]Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences, [3]National Cerebral and Cardiovascular Center Research Institute)

1P-027 The effects of side-chain configurations of a retro–inverso-type inhibitor on the human T-cell leukemia virus type 1 (HTLV-1) protease

Chiyuki Awahara[1], Daiki Oku[1], Saki Furuta[1], Kenta Teruya[2], Akira Sanjoh[3], Kazuya Kobayashi [1], Yasunao Hattori[4], Kenichi Akaji[1] ([1]Department of Medicinal Chemistry, Kyoto Pharmaceutical University, [2]Graduate School of Medicine, Tohoku University, [3]R&D Center, Protein Wave Co., [4]Center for Instrumental Analysis, Kyoto Pharmaceutical University)

1P-028 Structural development of helix-stabilized block peptides for intracellular delivery of siRNA

Takashi Misawa[1], Nobumichi Ohoka[1], Motoharu Hirano[1,2], Makoto Oba[3], Takao Inoue[1], Yosuke Demizu[1,2] ([1]National Institute of Health Sciences, [2]Graduate of School of Medical Life Sciences, Yokohama City University, [3]Graduate School of Medical Science, Kyoto Prefectural University of Medicine)

1P-029 Efficient screening for membrane-permeable isomers of a cyclic hexapeptide PF1171F

Tokushu Miura, Minoru Inagaki, Yuichi Masuda (Graduate School of Bioresources, Mie University)

1P-030 Study to identify cyclic peptides with membrane permeability and bioactivity by cyclpropane-based conformational restriction strategy

Yuki Yamazaki[1], Hiroyuki Kumeta[2], Kouhei Matsui[1], Koichi Fujiwara[1], Mizuki Watanabe[1], Satoshi Shuto[1] ([1]Faculty of Pharmaceutical Sciences, Hokkaido University, [2]Faculty of Advanced Life Science, Hokkaido University)

1P-031 Development of fusion inhibitor peptides of SARS-CoV-2 learned from anti-HIV-1 agents

Kohei Tsuji[1], Kofi Baffour-Awuah Owusu[1], Takuya Kobayakawa[1], Youichi Suzuki[2], Hirokazu Tamamura[1] ([1]Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University (TMDU), [2]Faculty of Medicine, Osaka Medical and Pharmaceutical University)

1P-032 Structure-activity relationship studies of SARS-CoV-2 main protease inhibitors

Kouki Shinohara[1], Kohei Tsuji[1], Takahiro Ishii[1], Takuya Kobayakawa[1], Nobuyo Higashi-Kuwata[2], Yutaro Miura[1], Hironori Hayashi[3], Shin-ichiro Hattori[2], Haydar Bulut[4], Shogo Misumi[5], Hiroaki Mitsuya[2,4,6], Hirokazu Tamamura[1] ([1]Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, [2]National Center for Global Health and Medicine Research Institute, [3]International Research Institute of Disaster Science, Tohoku University, [4]Experimental Retrovirology Section, HIV and AIDS Malignancy Branch, National Cancer Institute, National Institutes of Health, [5]Faculty of Life Sciences, Kumamoto University, [6]Kumamoto University Hospital)

1P-033 FVFYV from laminin alpha 5 chain as a template for amyloid-like fibrils

Guangrui Zhang, Yuji Yamada, Jun Kumai, Keisuke Hamada, Yamato Kikkawa, Motoyoshi Nomizu (Department of Clinical Biochemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

1P-034 Design, synthesis and evaluation of NHPI-based SARS-CoV 3CL protease inhibitors 3CL protease inhibitors

Hinata Sano[1], Keito Oikawa[1], Ryusei Endo[1], Kenta Teruya[2], Yasunao Hattori[3], Kenichi Akaji[3], Shigekazu Yano[1], Hiroyuki Konno[1] ([1]Graduate School of Science and Engineering, Yamagata University, [2]Graduate School of Medicine, Tohoku University, [3]Department of Medicinal Chemistry, Kyoto Pharmaceutical University)

1P-035 RaPID system for backbone macrocyclic peptides

Koki Shinbara, Takayuki Katoh, Hiroaki Suga (Department of Chemistry, Graduate School of Science, The University of Tokyo)

1P-036 Production of OPOB-libraries and high-throughput deconvolution technologies towards comprehensive discovery of medicinal middle molecules

Kiyoshi Nokihara, Toru Sasaki, Takeshi Kasama, Atsushi Kitagawa, Yuki Tominaga (HiPep Laboratories)

1P-037 Development of pH-responsive anticancer peptides

Aoi Taniguchi, Kenichi Kawano, Katsumi Matsuzaki (Graduate School of Pharmaceutical Sciences, Kyoto University)

1P-038 Analysis of E2-binding capabilities of artificial E3s by fluorescence spectroscopies

Kazuhide Miyamoto, Hinako Ishii, Takashi Tadokoro (Pharmaceutical Sciences, Sanyo-Onoda City University)

1P-039 Macrocyclic peptides as a potent and orally HIV-1 protease inhibitor: mRNA display-derived hit-to-lead optimization

Soichiro Sato, Yoshifumi Kusumoto, Kyohei Hayashi, Toru Yamada, Iori Kozono, Zenzaburo Nakata, Naoya Asada, Shungo Mitsuki, Ayahisa Watanabe, Chiaki Wakasa-Morimoto, Kentaro Uemura, Shuhei Arita, Tohru Mizutare, Hidenori Mikamiyama (Shionogi & Co., Ltd.)

1P-040 Pegylated CD4 mimics as HIV inhibitors

Yutaro Miura[1], Takuya Kobayakawa[1], Kohei Tsuji[1], Kiju Konno[1], Ami Masuda[1], Nami Ohashi[1], Takeo Kuwata[2], Kazuhisa Yoshimura[3], Tomoyuki Miura[4], Shigeyoshi Harada[5], Shuzo Matsushita[2], Hirokazu Tamamura[1] ([1]Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University (TMDU), [2]The Joint Research Center for Human Retrovirus Infection, Kumamoto University, [3]Institute of Public Health, Bureau of Social Welfare and Public Health, Tokyo Metropolitan Government,

[4]Institute for Frontier Life and Medical Sciences, Kyoto University, [5]AIDS Research Center, National Institute of Infectious Diseases)

1P-041 Preparation of short peptides as lysine-specific demethylase 1 inhibitors

Ren Inoue[1], Taeko Kakizawa[1], Takayosi Suzuki[2] ([1]Graduate School of Materials and Life Sciences, Kanto Gakuin University, [2]The Institute of Scientific and Industrial Research, Osaka University)

1P-042 Development of melittin derivatives for intracellular delivery of biomacromolecules

Yoshimasa Kawaguchi[1], Naoki Tamemoto[1], Masataka Fumoto[2], Shiroh Futaki[1] ([1]Institute for Chemical Research, Kyoto University, [2]Laboratory for Bio-Modality Research, Shionogi & Co., Ltd.)

1P-043 Ribosomal synthesis of a peptide library containing cyclic γ-amino acids for discovery of SARS-CoV-2 main protease inhibitors

Takashi Miura[1], Tika R. Malla[2], C. David Owen[3,4], Anthony Tumber[2], Lennart Brewitz[2], Michael A. McDonough[2], Eidarus Salah[2], Naohiro Terasaka[1], Takayuki Katoh[1], Petra Lukacik[3,4], Claire Strain-Damerell[3,4], Halina Mikolajek[3,4], Martin A. Walsh[3,4], Akane Kawamura[2,5], Christopher J. Schofield[2], Hiroaki Suga[1] ([1]Department of Chemistry, Graduate School of Science, The University of Tokyo, [2]Department of Chemistry and the Ineos Oxford Institute for Antimicrobial Research, University of Oxford, [3]Diamond Light Source, Harwell Science & Innovation Campus, [4]Research Complex at Harwell, Harwell Science & Innovation Campus, [5]Chemistry – School of Natural and Environmental Sciences, Newcastle University)

1P-044 Synthesis and cellular delivery of nano-sized ribbon-shaped gold crystals tethering a nuclear localization signal sequence

Kazutoshi Ishida[1], Takahito Imai[1], Masayuki Yamasaki[2], Kin-ya Tomizaki[1] ([1]Department of Materials Chemistry, Ryukoku university, [2]Department of Food Sciences and Human Nutrition, Ryukoku University)

1P-045 Design and synthesis of the mechanism-based inhibitors against the glycoside hydrolase family 127/146 cysteine glycosidase

Akihiro Ishiwata[1], Katsunori Tanaka[1,2], Kiyotaka Fujita[3], Yukishige Ito[1,4] ([1]RIKEN Cluster for Pioneering Research, [2]Department of Chemical Science and Engineering, Tokyo Institute of Technology, [3]Faculty of Agriculture, Kagoshima University, [4]Graduate School of Science, Osaka University)

1P-046 Uptake cellular of peptide-DNA complexes into cancer cells

Rika Fujisawa[1], Masayuki Yamasaki[2], Kin-ya Tomizaki[1] ([1]Department of Materials Chemistry, Ryukoku University, [2]Department of Food Sciences and Human Nutrition, Ryukoku University)

1P-047 Genome mining and heterologous expression-based discovery of a new depsipeptide from *Chaetomium* fungi

Yuto Homma, Akihiro Sugawara, Yohei Morishita, Kento Tsukada, Taro Ozaki, Teigo Asai (Graduate School of Pharmaceutical Sciences, Tohoku University)

1P-048 Phosphatidylserine exposure on the cell surface by artificial lipid scrambling

Hiroyuki Nakao, Hiromichi Shimizu, Yusuke Kimura, Keisuke Ikeda, Minoru Nakano (Department of Biointerface Chemistry, Faculty of Pharmaceutical Sciences, University of Toyama)

1P-049 Membrane permeability measurements of a large library of cyclic hexapeptides and conformational analysis of permeable cyclic hexapeptides by molecular dynamics simulations

Moe Shinkai[1], Yuki Hosono[1], Takumi Ueda[2], Koh Takeuchi[2], Koji Umezawa[3,4], Jumpei Morimoto[1], Shinsuke Sando[1,5] ([1]Department of Chemistry & Biotechnology, Graduate School of Engineering, The

University of Tokyo, [2]Graduate School of Pharmaceutical Sciences, The University of Tokyo, [3]Department of Biomedical Engineering, Graduate School of Science and Technology, Shinshu University, [4]Institute for Biomedical Sciences, Interdisciplinary Cluster for Cutting Edge Research, Shinshu University, [5]Department of Bioengineering, Graduate School of Engineering, The University of Tokyo)

1P-050 Intracellular construction of protein condensates by amphiphilic YK peptides and evaluation of molecular chaperones involved in maintaining liquid droplets

Hiroki Takahashi, Takayuki Miki, Masahiro Hashimoto, Hisakazu Mihara (School of Life Science and Technology, Tokyo Institute of Technology)

1P-051 Synthesis and evaluation of a fluorescent stapled peptide biosensor for hDM2 protein in vitro

Goshi Moro, Takayuki Miki, Hisakazu Mihara (School of Life Science and Technology, Tokyo Institute of Technology.)

1P-052 Development of high-resolution antibody-drug conjugate strategy: selective drug-delivery to nucleus of target cells

Yuki Iizuka[1], Yoshiyuki Manabe[1,2,3], Kazuya Kabayama[1,2,3], Koichi Fukase[1,2,3] ([1]Graduate School of Science, Osaka University, [2]Forefront Research Center, Osaka University, [3]Institute for Radiation Sciences, Osaka University)

1P-053 Evaluation of the effect of an amide-to-ester substitution on membrane permeability of cyclic hexapeptides and larger cyclic peptides

Satoshi Uchida[1], Yuki Hosono[1], Kayoko Kanamitsu[2], Mayumi Ishii[2], Jumpei Morimoto[1], Scott R. Lokey[3], Shinsuke Sando[1] ([1]Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, [2]Drug Discovery Initiative, The University of Tokyo, [3]Department of Chemistry and Biochemistry, University of California)

1P-054 Generation of microtubule superstructures by binding of Tau-derived peptide-fused proteins

Hiroshi Inaba[1], Yurina Sueki[1], Muneyoshi Ichikawa[2], Arif Md. Rashedul Kabir[3], Takashi Iwasaki[4], Akira Kakugo[3], Kazuki Sada[3], Kazunori Matsuura[1] ([1]Graduate School of Engineering, Tottori University, [2]Graduate School of Science and Technology, Nara Institute of Science and Technology, [3]Graduate School of Science, Hokkaido University, [4]Graduate School of Agricultural Sciences, Tottori University)

1P-055 Evaluation of cell adhesion properties of XR8-matrices

Toru Onda, Keisuke Hamada, Yamato Kikkawa, Motoyoshi Nomizu, Yuji Yamada (Department of Clinical Biochemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

1P-056 Reversible peptide nanofibers formed and dissociated by light

Yingbing Liang, Hiroshi Inaba, Kazunori Matsuura (Graduate School of Engineering, Tottori University)

1P-057 Light-induced stabilization of microtubules by photocrosslinking of Tau-derived peptide

Soei Watari[1], Hiroshi Inaba[1], Arif Md. Rashedul Kabir[2], Akira Kakugo[2], Kazuki Sada[2], Kazunori Matsuura[1] ([1]Graduate School of Engineering, Tottori University, [2]Graduate School of Science, Hokkaido University)

1P-058 Discovery of BSH-recognising peptide using phage display method

Taichi Shirakawa[1], Yoshiaki Hirano[1,2] ([1]Faculty of Chemistry, Materials and Bioengineering, Kansai University, [2]Organization for Research and Development of Innovative Science and Technology (ORDIST), Kansai University)

1P-059 Synthesis and in vitro evaluation of RGDS peptide-modified boron drugs for BNCT

Shota Shimizu[1], Yoshiaki Hirano[1,2] ([1]Faculty of Chemistry, Materials and Bioengineering, Kansai University, [2]Organization for Research and Development of Innovative Science and Technology (ORDIST), Kansai University)

1P-060 Intracellular plasmid DNA delivery using helical template conjugated oligoarginine

Hidetomo Yokoo[1], Takashi Misawa[2], Takuma Kato[3], Masakazu Tanaka[4], Yosuke Demizu[2], Makoto Oba[1] ([1]Graduate School of Medical Science, Kyoto Prefectural University of Medicine, [2]National Institute of Health Sciences, [3]Faculty of Pharmacy, Osaka Medical and Pharmaceutical University, [4]Graduate School of Biomedical Sciences, Nagasaki University)

1P-061 Design of artificial viral capsid encapsulating mRNA to endow self-replicability

Kentarou Sakamoto[1], Hiroshi Inaba[1], Takashi Iwasaki[2], Kazunori Matsuura[1] ([1]Graduate School of Engineering, Tottori University, [2]Graduate School of Agricultural Science, Tottori University)

1P-062 Antibody-guided identification of antibody mimetic nanobodies

Takumi Ogawara, Shinae Kizaka-Kondoh, Tetsuya Kadonosono (School of Life Science and Technology, Tokyo Institute of Technology)

1P-063 Automated robustness study for ICHQ14, AQbD and DI

Masaaki Suzuki, Kazuhide Konishi, Yuko Aoki, Shigenori Sonoki (ChromSword Japan Co. Ltd.)

1P-064 Elucidating the peptide degradation mechanism by insulin degrading enzyme

Tsubura Kuramochi[1], Shingo Kanemura[1], Ran Furukawa[1], Hiroshi Yamaguchi[1], Kenta Arai[2], Young-Ho Lee[3], Masaki Okumura[4] ([1]School of Science, Kwansei Gakuin University, [2]School of Science, Tokai University, [3]Research Center for Bioconvergence Analysis, Korea Basic Science Institute, [4]Frontier Research Institute for Interdisciplinary Sciences, Tohoku University)

1P-065 Characterization of the actions of CRANAD on two prion strains and PrP-amyloid

Kenta Teruya[1], Sara Iwabuchi[1], Miyu Okada[2], Nao Yaguchi[1], Hiroyuki Konno[2], Katsumi Doh-ura[1] ([1]Graduate School of Medicine, Tohoku University, [2]Graduate School of Science and Engineering, Yamagata University)

1P-066 A novel dual detection technology, Chip and MS towards proteome research

Atsushi Kitagawa, Yuki Tominaga, Takeshi Kasama, Kiyoshi Nokihara (HiPep Laboratories)

1P-067 Synthesis and functional analysis of mirror-image monobody

Naoya Iwamoto[1], Yukino Sato[2], Asako Manabe[3], Shinsuke Inuki[1], Hiroaki Ohno[1], Motohiro Nonaka[3], Shinya Oishi[2] ([1]Graduate School of Pharmaceutical Sciences, Kyoto University, [2]Department of Medicinal Chemistry, Kyoto Pharmaceutical University, [3]Graduate School of Medicine, Kyoto University)

1P-068 Development of evaluation system for activation and exhaustion levels of CD25-targeting CAR-T cells

Eriko Takano, Ng Sin Ying, Alex Nguyen, Shinae Kizaka-Kondoh, Tetsuya Kadonosono (School of Life Science and Technology, Tokyo Institute of Technology)

1P-069 Protein expression elements recognized by *Escherichia coli* in a positive-strand RNA virus genome

Yoshiyuki Nishimiya (National Institute of Advanced Industrial Science and Technology (AIST), Bioproduction Research Institute)

1P-070 Synthesis of dicationic cytosine derivative for peptide nucleic acid

Shun-suke Moriya[1], Misaki Yonezu[1], Yuzu Kondo[1], Yosuke Demizu[2], Masaaki Kurihara[3], Atsushi Kittaka[1], Toru Sugiyama[1] ([1]Faculty of Pharma-Sciences, Teikyo University, [2]Division of Organic

Chemistry, National Institute of Health Sciences, [3]Faculty of Pharmaceutical Sciences, Shonan University of Medical Sciences)

1P-071 Electrostatic effects of the N-terminal peptide in light-harvesting complex II from oxygenic photosynthetic organisms

Yoshitaka Saga, Masayuki Tanaka (Department of Chemistry, Faculty of Science and Engineering, Kindai University)

1P-072 Development of affinity evaluation system for cell-surface displayed antibodies

Saki Sakurai, Lin Ning, Shinae Kizaka-Kondoh, Tetsuya Kadonosono (School of Life Science and Technology, Tokyo Institute of Technology)

1P-073 Dissociation of β2-microglobulin peptide fibril by infrared free electron laser: theoretical and experimental evidences

Mikiko Jindo[1], Kazuhiro Nakamura[2], Hisashi Okumura[3,4,5], Koichi Tsukiyama[1,6], Takayasu Kawasaki[6,7] ([1]Department of Chemistry, Faculty of Science Division I, Tokyo University of Science, [2]Department of Laboratory Sciences, Gunma University, Graduate School of Health Sciences, [3]Exploratory Research Center on Life and Living Systems (ExCELLS), National Institutes of Natural Sciences, [4]Institute for Molecular Science, National Institutes of Natural Sciences, [5]Department of Structural Molecular Science, SOKENDAI (The Graduate University for Advanced Studies), [6]IR Free Electron Laser Research Center, Research Institute for Science and Technology, Organization for Research Advancement, Tokyo University of Science, [7]Accelerator Laboratory, High Energy Accelerator Research Organization)

2P-001–073: October 27 (Thursday) 17:10–19:10

Odd numbers: 17:10–18:10, Even numbers: 18:10–19:10

2P-001 Electrophysiological analysis of mono-amino acid permeability by lipid bilayer system

Kaiyi Zheng, Kayano Izumi, Ryuji Kawano (Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology)

2P-002 Chemical synthesis of ubiquitin dimer containing Gly-Gly-type (*E*)-methylalkene dipeptide isosteres

Kohei Watanabe[1], Hiromu Suzuki[1], Yoshinori Taguchi[1], Sayuri Takeo[1], Junko Fujimoto[2], Kohei Sato[1,2], Nobuyuki Mase[1,2], Tetsuo Narumi[1,2] ([1]Department of Engineering, Graduate School of Integrated Science and Technology, Shizuoka University, [2]Faculty of Engineering, Shizuoka University)

2P-003 Bifunctional dodecaborate to development of theranostic type boron carrier

Yoshihide Hattori[1], Miki Ishimura[1], Youichirou Ohta[1], Hiroshi Takenaka[1], Ikuhiko Nakase[2], Mitsunori Kirihata[1] ([1]Research Center of BNCT, Osaka Metropolitan University, [2]Gaduate school of Science, Osaka Metropolitan University)

2P-004 Development of helical peptidomimetics containing (*Z*)-chloroalkene dipeptide isostere

Sayuri Takeo[1], Yui Suruga[2], Junko Fujimoto[2], Kohei Sato[1,2], Nobuyuki Mase[1,2], Masakazu Tanaka[3], Tetsuo Narumi[1,2] ([1]Department of Engineering, Graduate School of Integrated Science and Technology, Shizuoka University, [2]Faculty of Engineering, Shizuoka University, [3]Graduate School of Biomedical Sciences, Nagasaki University)

2P-005 Thioether-mediated sulfenylation to the indole ring of tryptophan

Yuma Tokita, Akihiro Taguchi, Hayate Shida, Yan Cui, Sho Konno, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

2P-006 Methionine-mediated sulfenylation of tryptophan in peptide

Hayate Shida, Akihiro Taguchi, Yan Cui, Yuma Tokita, Reo Kishi, Sho Konno, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

2P-007 Diastereoselective synthesis of (*Z*)-chloroalkene analogue of human NMUR2 selective agonist designed to prevent intramolecular acyl transfer reaction

Daichi Toyama[1], Junko Fujimoto[2], Kohei Sato[1,2], Nobuyuki Mase[1,2], Kentaro Takayama[3], Tetsuo Narumi[1,2] ([1]Department of Engineering, Graduate School of Integrated Science and Technology, Shizuoka University, [2]Faculty of Engineering, Shizuoka University, [3]Kyoto Pharmaceutical University)

2P-008 Non-covalent interactions of (*Z*)-fluoroalkene dipeptide isosteres in the backbone of the collagen triple helix

Chihiro Iio[1], Junko Fujimoto[2], Daichi Toyama[1], Kohei Sato[1,2], Nobuyuki Mase[1,2], Tetsuo Narumi[1,2] ([1]Department of Engineering, Graduate School of Integrated Science and Technology, Shizuoka University, [2]Faculty of Engineering, Shizuoka University)

2P-009 Synthesis of head-to-tail cyclic peptides using Bpoc-chemistry

Ichiro Sasaki[1], Yuta Araki[2], Keiichi Yamada[3] ([1]Material and Bioscience Program, Graduate School of Science and Technology, Gunma University, [2]Department of Chemistry and Chemical Biology, Gunma University, [3]Division of Molecular Science, Graduate School of Science and Technology, Gunma University)

2P-010 Identification of DL- and DL-iso-form of aspartic acid residues in amyloid β peptide using a chiral resolution labeling reagent

Makoto Ozaki[1], Motoshi Shimotsuma[1], Takefumi Kuranaga[2], Hideaki Kakeya[2], Tsunehisa Hirose[1] ([1]Purification Section, Nacalai Tesque Inc., [2]Department of System Chemotherapy and Molecular Sciences, Division of Medical Frontier Sciences, Graduate School of Pharmaceutical Sciences, Kyoto University)

2P-011 A milk whey-derived hexapeptide exhibits anxiolytic- and antidepressant-like effect

Futaba Fujita, Hikaru Fujii, Akane Yamamoto, Kousaku Ohinata (Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University)

2P-012 A novel green leaf-derived pentapeptide that decreases high-fat diet intake after oral administration in mice

Saya Araki[1], Shimon Abe[1], Ken Shimizu[1], Kentaro Kaneko[1], Masaru Sato[2], Kousaku Ohinata[1] ([1]Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University, [2]Department of Applied Genomics, Kazusa DNA Research Institutes)

2P-013 Total synthesis and structural determination of cyclodepsipeptide decatransin

Kosuke Ohsawa, Sakiko Fukaya, Takayuki Doi (Graduate School of Pharmaceutical Sciences, Tohoku University)

2P-014 Secondary structure of mitochondria localization signal peptides

Katsuya Kishine, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

2P-015 Synthetic study for cyclopeptide ASP2397

Kosuke Ohsawa, Yutong Du, Kotaro Yasoshima, Takayuki Doi (Graduate School of Pharmaceutical Sciences, Tohoku University)

2P-016 Aqueous microwave-assisted solid-phase peptide synthesis: racemization study on His residue

Toshiki Kiatagawa[1], Keiko Hojo[1,2], Satoshi Kitagawa[1], Tomoyo Uda[1], Yuuta Ohki[3], Naoyuki Takahashi[3], Yuko Tsuda[1,2] ([1]Faculty of Pharmaceutical Sciences, Kobe Gakuin University, [2]Cooperative Research Center of Life Science, Kobe Gakuin University, [3]Tokyo Rikakikai Co., Ltd)

2P-017 Peptidomimetic diazaborole structure prepared from *2H*-azirine

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2P-018 Synthesis of cyclic octapeptide by novel and efficient liquid-phase peptide synthesis strategy

Akihiro Nagaya[1], Shota Murase[1], Yuji Mimori[1], Kazuya Wakui[1], Madoka Yoshino[1], Ayumu Matsuda[2], Yutaka Kobayashi[2], Haruaki Kurasaki[2], Douglas R. Cary[2], Keiichi Masuya[2], Michiharu Handa[1], Naoki Nishizawa[1] ([1]Chemical Research Laboratories, Nissan Chemical Corporation, [2]PeptiDream Inc.)

2P-019 Solid-phase total synthesis of plusbacin A_3

Kazuki Takashina[1], Akira Katsuyama[1,2], Rintaro Kaguchi[1], Kazuki Yamamoto[1], Satoshi Ichikawa[1,2] ([1]Faculty of Pharmaceutical Sciences, Hokkaido University, [2]Global Station for Biosurfaces and Drug Discovery, Global Institution for Collaborative Research and Education (GI-CoRE), Hokkaido University)

2P-020 Thiosemicarbazide-mediated Edman degradation for peptide purification

Yuta Kosaka[1], Kohei Sato[1,2], Tetsuo Narumi[1,2], Nobuyuki Mase[1,2] ([1]Graduate School of Science and Technology Shizuoka University, [2]Research Institute of Green Science and Technology Shizuoka University)

2P-021 Novel hydrazine linker for preparation of peptide hydrazide

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2P-022 Application of continuous chromatography method to peptide purification

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2P-023 Late-stage conversion of peptide hydrazides to the corresponding amides and carboxylates

Shoko Tanaka[1], Tetsuo Narumi[1,2], Nobuyuki Mase[1,2], Kohei Sato[1,2] ([1]Graduate School of Science and Technology, Shizuoka University, [2]Research Institute of Green Science and Technology, Shizuoka University)

2P-024 Improved chemical synthesis of dual-mono ubiquitinated PAF15 protein

Yuya Takahashi[1], Satomi Kori[2], Kyohei Arita[2], Gosuke Hayashi[1], Hiroshi Murakami[1,3] ([1]Graduate School of Nagoya University, [2]Graduate School of Medicinal Life Science, Yokohama City University, [3]Institute of Nano-Life-Systems, Institutes of Innovation for Future Society, Nagoya University)

2P-025 Single-molecule detection using *de novo* designed β-barrel nanopore with Gly-kink

Ikuro Mizoguchi[1], Shuhei Yoshida[2], Yoshio Hamada[2], Yuto Suzuki[3], Yuzuha Araki[3], Kenji Usui[2], Izuru Kawamura[3], Ryuji Kawano[1] ([1]Department of Biotechnology and Life Science, Tokyo University of

Agriculture and Technology, [2]Faculty of Frontiers of Innovative Research in Science and Technology, Konan University, [3]Graduate School of Engineering Science, Yokohama National University)

2P-026 Study of the antimicrobial activity and cell viability of *N*-fatty acylated or tryptophan substituted myticalin A6 (3-23)-OH derivatives

Keiko Okimura, Tatsuo Takahashi, Risa Sugita, Sayuri Suzuki, Tohru Daikoku (Faculty of Pharmaceutical Sciences, Hokuriku University)

2P-027 Redesign of sequence of β-hairpin peptide for stable formation of β-barrel nanopore

Rina Ogawa, Shoko Fujita, Ikuro Mizoguchi, Ryuji Kawano (Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology)

2P-028 Conformational analyses of heat-stable enterotoxin vaccines for enterotoxigenic *Escherichia coli*

Masaya Goto, Shinya Yoshino, Yuji Hidaka, Shigeru Shimamoto (Graduate School of Science and Engineering Research, Kindai University)

2P-029 Functional regulation of antimicrobial peptide r-Pep1 via oligomer formation by coiled-coil

Natsumi Nakagawa, Yuna Nunokawa, Shuya Sakaguchi, Rui Kamada, Kazuyasu Sakaguchi (Laboratory of Biological Chemistry, Department of Chemistry, Faculty of Science, Hokkaido University)

2P-030 Evaluation of the effect of amphipathic helical peptides on lipid membranes

Takuma Kato, Ryusei Yamada, Aki Matsuoka, Akiko Asano, Mitsunobu Doi (Faculty of Pharmacy, Osaka Medical and Pharmaceutical University)

2P-031 Side-chain modified peptides as lysine-specific demethylase 1 inhibitors

Ayumu Agarie[1], Masaki Asakawa[1], Taeko Kakizawa[1], Takayoshi Suzuki[2] ([1]Graduate School of Materials and Life Sciences, Kanto Gakuin University, [2]The Institute of Scientific and Industrial Research, Osaka University)

2P-032 Reactivity of partial peptides designed from classical swine fever virus core protein against field isolated sera of wild boars in Gunma prefecture, Japan

Hiroyuki Oku[1], Hinata Tanaka[1], Akari Nakagawa[1], Aya Nagoshi[1], Shunto Suzuki[1], Shun-suke Kobayashi[1], Kaito Takeda[1], Yuya Tatsumi, Hikaru Yamada[1], Yuko Oku[2] ([1]Division of Molecular Science, Graduate School of Science & Engineering, Gunma University, [2]Aoi-Tori Family Clinic)

2P-033 Can carnosine-4-oxo-2(*E*)-nonenal adduct be muscle and nervous tissue site-specific oxidative stress marker?

Taichi Umetsu, Yusuke Hatakawa, Seon Hwa Lee, Tomoyuki Oe (Graduate School of Pharmaceutical Sciences, Tohoku University)

2P-034 Peptide/protein-mediated delivery of a ruthenium catalyst for in vivo tumor therapy

Kyohei Muguruma[1], Kyosuke Imai[2], Ambara R. Pradipta[1,2], Katsunori Tanaka[1,2] ([1]Biofunctional Synthetic Chemistry, RIKEN Cluster for pioneering research, [2]Department of Chemical Science and Engineering, School of Materials and Chemical Technology, Tokyo Institute of technology)

2P-035 Development of CPP-conjugated LRH-1-derived peptides inhibiting Wnt/β-catenin signaling pathway

Keisuke Tsuchiya[1,2], Masato Kiyoshi[3], Noritaka Hashii[3], Minami Fujita[2,4], Akiko Ishii-Watabe[3], Kiyoshi Fukuhara[1], Takashi Misawa[2], Yosuke Demizu[2,4] ([1]Graduate School of Pharmacy, Showa University, [2]Division of Organic Chemistry, National Institute of Health Science, [3]Division of Biological Chemistry and Biologicals, National Institute of Health Sciences, [4]Graduate School of Medical Life Science, Yokohama City University)

2P-036 Improvement of insulin absorption by oral co-administration with small intestine-permeable cyclic peptide concatenated with an insulin-binding peptide

Shingo Ito[1,2], Shoma Chikamatsu[2], Takeshi Masuda[1,2], Sumio Ohtsuki[1,2] ([1]Faculty of Life Sciences, Kumamoto University, [2]Graduate School of Pharmaceutical Sciences, Kumamoto University)

2P-037 Regulatory mechanisms of mitocryptide-1 and mitocryptide-2 on the inflammation in the drug-induced tissue injury model

Hirokazu Tanaka, Tomoyuki Miyaji, Hakuu Fujiwara, Yosito Takamuro, Hiroki Morikawa, Tatuya Hattori, Yosiaki Kiso, Hidehito Mukai (Laboratory of Peptide Science, Graduate School of Bio-Science, Nagahama Institute of Bio-Sciense and Technology)

2P-038 WYP-rich macrocyclic peptide library

Tomoshige Fujino[1], Taiga Sumi[1], Hiroshi Murakami[1,2] ([1]Graduate School of Engineering, Nagoya University, [2]Institute of Nano-Life-Systems, Institutes of Innovation for Future Society, Nagoya University)

2P-039 Molecular mechanism of anti-antibiotic activity for r-Pep2 derived from latent ORF in *E. coli* rRNA

Masahiro Date, Yuma Omata, Satoshi Muromachi, Natsumi Nakagawa, Rui Kamada, Kazuyasu Sakaguchi (Laboratory of Biological Chemistry, Department of Chemistry, Faculty of Science, Hokkaido University)

2P-040 Enhancement of cell penetration efficiency of cationic peptides by microwave irradiation

Momo Hirata[1], Fumihiro Kayamari[1,2], Ryuji Osawa[3], Yonejiro Arimoto[4], Nobuhiro Nakanishi[2,5,6], Kenji Usui[1,2,5] ([1]Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, [2]Research Institute for Nanobio-environment and Non-Ionizing Radiation (RINNIR), Konan University, [3]Seikoh Giken Co., Ltd., [4]Minato Medical Science Co., Ltd., [5]Beyond5G Donated Lectuers, Konan University, [6]DSP Research, Inc.)

2P-041 Synthesis of carrier peptides toward intracellular boron delivery

Takahiro Kayashita, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

2P-042 Synthesis and characterization of peptide-modified gold nanorods

Shoya Nakamura[1], Takahito Imai[1], Masayuki Yamasaki[2], Kin-ya Tomizaki[1] ([1]Department of Materials Chemistry, Ryukoku University, [2]Department of Food Sciences and Human Nutrition, Ryukoku University)

2P-043 Chemiluminogenic probe for the detection of γ-glutamyl cyclotransferase activity

Yukie Nohara[1], Keiko Taniguchi[2], Hiromi Ii[3], Shun Masuda[1], Hiroko Kawakami[1], Masakatsu Matsumoto[4], Susumu Nakata[3], Toshiyuki Sakai[2], Taku Yoshiya[1,5] ([1]Peptide Institute, Inc., [2]Department of Drug Discovery Medicine, Kyoto Prefectural University of Medicine, [3]Department of Clinical Oncology, Kyoto Pharmaceutical University, [4]Department of Chemistry, Kanagawa University, [5]Institute for Protein Research, Osaka University)

2P-044 Detection and separation of disulfide-coupled folding intermediates of middle size proteins

Nana Sakata[1], Misaki Nishimura[1], Yuri Murakami[1], Mitsuhiro Miyazawa[2], Shigeru Shimamoto[1], Yuji Hidaka[1] ([1]Graduate School of Science and Engineering Research, Kindai University, [2]Institute of Agrobiological Sciences, National Agriculture and Food Research Organization)

2P-045 Investigation of Photocatalyst for Tyrosine/Histidine Proximity Labeling

Keita Nakane[1], Haruto Nagasawa[1], Shusuke Tomoshige[1], Minoru Ishikawa[1], Shinichi Sato[1,2] ([1]Graduate School of Life Sciences, Tohoku University, [2]Frontier Research Institute for Interdisciplinary Sciences, Tohoku University)

2P-046 Inhibition of myostatin by bioadaptative peptide-photooxygenation catalyst conjugate

Hideyuki Okamoto[1], Shuko Amber Murano[1], Kaoru Ikekawa[1], Masahiro Katsuyama[1], Sho Konno[1], Akihiro Taguchi[1], Kentaro Takayama[1,2], Atsuhiko Taniguchi[1], Yoshio Hayashi[1] ([1]Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences, [2]Department of Environmental Biochemistry, Kyoto Pharmaceutical University)

2P-047 Immune-stimulatory helix–loop–helix peptide: selective inhibition of CTLA-4–B7 interaction

Daisuke Fujiwara[1], Tharanga M. R. Ramanayake Mudiyanselage[2], Masataka Michigami[1], Zhengmao Ye[1], Norimitsu Inoue[3], Kikuya Sugiura[2], Ikuo Fujii[1] ([1]Graduate School of Science, Osaka Metropolitan University, [2]Graduate School of Veterinary Science, Osaka Metropolitan University, [3]Department of Molecular Genetics, Wakayama Medical University)

2P-048 Peptide phosphonates as a transition state analog for thioesterases in nonribosomal peptide synthetases

Sho Konno, Miyu Tanaka, Tomoe Mizuguchi, Akihiro Taguchi, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

2P-049 Generation of helix-loop-helix peptides to inhibits estrogen receptor α-coactivator interaction

Yuna Tanaka, Shunsuke Inaura , Daisuke Fujiwara , Ikuhiko Nakase, Ikuo Fujii (Graduate School of Science, Osaka Metropolitan University)

2P-050 Selection of peptides capable of binding to MDM2 using an engineered split intein

Yutaro Watanabe, Tsuyoshi Takahashi (Graduate School of Science and Technology, Gunma University)

2P-051 Structural insight for the different transcriptional properties against the typical estrogen-response element between estrogen receptor alpha and beta

Tomoka Ishibashi[1], Kota Aramaki[1], Kyota Shirane[1], Ayami Matsushima[1,2] ([1]Department of Chemistry, Graduate School of Science, Kyushu University, [2]Department of Chemistry, Faculty of Science, Kyushu University)

2P-052 Cell-penetrating peptides (CPPs) with highly-fluorinated alkyl groups

Koji Kadota[1], Toshiki Mikami[1], Ai Kohana[1], Kohsuke Aikawa[1], Jumpei Morimoto[1], Shinsuke Sando[1], Takashi Okazoe[1,2] ([1]Graduate School of Engineering, Tokyo University, [2]AGC Inc.)

2P-053 Construction of a detection method for peptide: N-glycanase activity using engineered split inteins

Tatsuya Uchibayashi[1], Satoshi Takahashi[1], Nozomi Ishii[1], Ichiro Matsuo[1], Yukiko Yoshida[2], Tadashi Suzuki[3], Tsuyoshi Takahashi[1] ([1]Graduate School of Science and Technology, Gunma University, [2]Ubiquitin Project, Tokyo Metropolitan Institute of Medical Science, [3]RIKEN)

2P-054 Development of radiation crosslinked peptide nanoparticles for pancreatic cancer diagnosis

Tadashi Arai[1], Miho Ueno[1], Kotaro Oyama[2], Atsushi Kimura[2], Mitsumasa Taguchi[1,2] ([1]Graduate School of Science and Technology, Gunma University, [2]National Institutes for Quantum Science and Technology)

2P-055 Activity detection of HIV-1 protease with drug-resistant mutations using biotinylated peptidomimetics and streptavidin

Koushi Hidaka[1], Yuko Tsuda[2], Motoyasu Adachi[3] ([1]Research Facility Center for Science and Technology, Kobe University, [2]Faculty of Pharmaceutical Sciences, Kobe Gakuin University, [3]Institute for Quantum Life Sciences, National Institute of Quantum Science and Technology)

2P-056 Heavy metals separation using heavy metal ion-binding peptides immobilized onto TentaGel or PEGA resin

Shuhei Yoshida, Taichi Isozaki, Takaaki Tsuruoka, Kenji Usui (Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University)

2P-057 Screening and characterization of peptides with specific affinities for polytetrafluoroethylene

Yuichi Kida, Toshiki Sawada, Takeshi Serizawa (School of Materials and Chemical Technology, Tokyo Institute of Technology)

2P-058 Construction of a method to screen fibril-forming peptides applied to biomaterials from designed beta-sheet peptide libraries by statistical analysis

Kazuya Iwata[1], Taisei Terao[1], Akira Takekawa[1,2], Tomohiro Umetani[3], Kenji Usui[1] ([1]Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, [2]Graduate School of Medicine, Kobe University, [3]Faculty of Intelligence and Informatics, Konan University)

2P-059 Development of fluorescent biosensor for detection of human norovirus via novel binding peptides

Yuto Tonozuka, Tetsuo Koyama, Koji Matsuoka, Takahiko Matsushita, Ken Hatano (Graduate School of Science and Engineering, Saitama University)

2P-060 Fluorescent hydrogel based on self-assembling acridonylalanine-phenylalanine dipeptide

Yuzuha Araki, Izuru Kawamura (Graduate School of Engineering Science, Yokohama National University)

2P-061 The *Caenorhabditis elegans* neuropeptide FLP-1 regulates larval diapause via DAF-28, one of the insulin-like peptides

Risako Une[1], Masayo Nose[1], Natsumi Kageyama[1], Masahiro Ono[2], Yohei Matsunaga[3], Takashi Iwasaki[1,2], Tsuyoshi Kawano[1,2] ([1]Graduate School of Sustainability Science, Tottori University, [2]The United Graduate School of Agricultural Sciences, Tottori University, [3]SRL, Inc.)

2P-062 Secondary structure-mimicking photoswitchable peptides incorporating hydrazone-based unnatural amino acids

Kwonjung Lee, Sunbum Kwon (Department of Chemistry, Chung-Ang University)

2P-063 Orthogonality for impurity analysis of synthetic cyclic peptides in three different chromatographic modes

Kanji Nagai, Kenichi Yoshida, Takafumi Onishi, Atsushi Ohnishi (Life Sciences R&D Center, Arai Plant, DAICEL Corporation)

2P-064 Binding properties of amyloid-targeting Thioflavin-T derivatives evaluated by a single-layer β-sheet model protein

Yuina Miura[1], Youhei Sohma[2], Motomu Kanai[3], Koki Makabe[1,4] ([1]Grad. Sch. Sci. Eng, Yamagata Univ., [2]Sch. Pham. Sci., Wakayama Med. Univ., [3]Grad. Sch. Pharm. Sci., Tokyo Univ., [4]JST PRESTO)

2P-065 Construction and evaluation of an amyloid catalyst mimicking artificial protein

Akifumi Takase[1], Koki Makabe[1,2] ([1]Graduate School of Science and Engineering, Yamagata University, [2]JST PRESTO)

2P-066 Sensing of human interleukin-6 by peptide aptamer with aggregation-induced emission dye

Motoki Ueda[1,2], Toru Itagaki[1], Shogo Ueda[3], Shin-ichiro Fujii[3], Yoshihiro Ito[1,2] ([1]RIKEN Cluster for Pioneering Research (CPR), [2]RIKEN Center for Emergent Matter Science (CEMS), [3]RIKEN Center for Integrative Medical Science (IMS))

2P-067 Synthesis of a Spy tag variant peptide for pH-dependent activation of the isopeptide bond formation with Spy catcher

Sonji Che[1], Hiroyuki Konno[1], Koki Makabe[1,2] ([1]Graduate School of Science and Engineering, Yamagata University, [2]JST PRESTO)

2P-068 The subcloning and enzyme activation of saliva proteases derived from *Nephila Clavata*

Misaki Nishimura[1], Nana Sakata[1], Ayana Shimomura[1], Teruki Hagiwara[1], Mitsuhiro Miyazawa[2], Shigeru Shimamoto[1], Yuji Hidaka[1] ([1]Graduate School of Science and Engineering Research, Kindai University, [2]Institute of Agrobiological Sciences, National Agriculture and Food Research Organization)

2P-069 Electrophysiological analysis of membrane permeation of CPP and its cargo delivery

Mahiro Suzuki[1], Wakana Hashimoto[1], Chihiro Saito[1], Izuru Kawamura[2], Yukihito Ishizaka[3], Ryuji Kawano[1] ([1]Department of Life Science and Biotechnology, Tokyo University of Agriculture and Technology, [2]Graduate School of Engineering, Yokohama National University, [3]Department of Intractable Diseases, Research Institute, National Center for Global Health and Medicine)

2P-070 Effect of charged molecules on liquid-liquid phase separation of nucleolar protein nucleophosmin

Seiyo Doi, Itsumi Tani, Yui Oikawa, Rui Kamada, Kazuyasu Sakaguchi (Laboratory of Biological Chemistry, Department of Chemistry, Faculty of Science, Hokkaido University)

2P-071 Effects of hair derived type I and type II keratin synergically increasing the secondary structure

Atsushi Baba[1], Ryo Adomi[1], Kazuyuki Suzuta[1], Nana Mineshita[2], Masatoshi Saiki[2], Len Ito[1] ([1]Development Headquarters, Milbon Co., Ltd., [2]Department of Applied Chemistry, Sanyo-Onoda City University)

2P-072 Characterization of tandem thioesterase domains in MA026 synthetase

Miyu Tanaka, Sho Konno, Akihiro Taguchi, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

2P-073 Construction of peptide-immobilized microbeads system for assessing skin sensitization

Kenji Usui[1], Masae Fukuda[1], Aki Nishimura[1], Fumihiro Kayamori[1], Yoshio Hamada[1], Hideto Ariumi[2] ([1]Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, [2]Faculty of Pharmaceutical Sciences, Sanyo-Onoda City University)