Poster Presentations

Odd numbers: November 20 (Monday) 16:30-18:00

Even numbers: November 21 (Tuesday) 13:40-15:10

P-001 Reaction of sugar oxazolines with primary amines

Minoru Suda, Wataru Sumiyoshi, Takashi Kinoshita, Shoko Ohno (Fushimi Pharmaceutical Co. Ltd.)

- P-002 Conformational studies on peptides having α,α-disubstituted α-amino acids with (-)-menthyl skeleton Suguru Matsumoto¹, Atsushi Ueda¹, Mitsunobu Doi², Masakazu Tanaka¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, ²Osaka University of Pharmaceutical Sciences)
- **P-003** Synthesis of chiral three-membered ring *α*,*α*-disubstituted *α*-amino acid and conformational analysis of its peptides

<u>Yurie Koba</u>, Hikaru Ikeda, Atsushi Ueda, Makoto Oba, Yosuke Demizu, Mitsunobu Doi, Masakazu Tanaka (Graduate School of Biomedical Sciences Nagasaki University)

P-004 Development of chemical synthetic strategies for peptidomimetic based on a chloroalkene dipeptide isostere and its application to a cyclic RGD peptide

<u>Takuya Kobayakawa</u>¹, Wataru Nomura¹, Kentaro Hozumi², Motoyoshi Nomizu², Hirokazu Tamamura¹ (¹Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, ²School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

P-005 Biosynthesis of high molecular weight collagen-like artificial protein

<u>Satoshi Yamada</u>¹, Seijiro Matsuki², Yoshiaki Hirano^{2,3}, Sachiro Kakinoki^{2,3} (¹Graduate School of Science and Engineering Kansai University, ²Faculty of Chemistry, Materials and Bioengineering, Kansai University, ³The Organization for Research and Development of Innovative Science and Technology, Kansai University)

P-006 Secondary structures of homopeptides composed of cyclopentene-based amino acid

<u>Haruka Yakabi</u>¹, Haruki Nakatani¹, Makoto Oba², Atsushi Ueda², Mitsunobu Doi³, Masakazu Tanaka² (¹Faculty of Pharmaceutical Sciences, Nagasaki University, ²Graduate School of Biomedical Sciences, Nagasaki University, ³Osaka University of Pharmaceutical Sciences)

P-007 Asymmetric synthesis of α-deuterated α-amino acids

<u>Ryosuke Takeda</u>^{1,2}, Hidenori Abe¹, Norio Shibata³, Hiroki Moriwaki¹, Kunisuke Izawa¹, Vadim A. Soloshonok^{2,4} (¹Hamari Chemicals Ltd., ²Department of Organic Chemistry I, Faculty of Chemistry, University of the Basque Country, ³Department of Nanopharmaceutical Sciences, and Department of Life Science and Applied Chemistry, Nagoya Institute of Technology, ⁴IKERBASQUE, Basque Foundation for Science)

P-008 Effects of salts and pH on coacervation of short elastin-like peptide (FPGVG)₅

<u>Daiki Tatsubo</u>¹, Misako Kodama¹, Keiji Sato¹, Keitaro Suyama², Iori Maeda³, Takeru Nose^{1,2} (¹Department of Chemistry, Graduate School of Science, Kyushu University, ²Faculty of Arts and Science, Kyushu University, ³Department of Bioscience and Bioinformatics, Kyushu Institute of Technology)

P-009 The first synthesis of caged arginine and light control of caged peptides

<u>Yoshiki Konda</u>¹, Ryosuke Sakamoto¹, Gosuke Hayashi¹, Akimitsu Okamoto^{1,2} (¹The University of Tokyo, Graduate School of Engineering, ²The University of Tokyo, Research Center for Advanced Science and Technology)

P-010 Synthesis and stability evaluation of new 3-nitro-2-pyridinesulfenate derivatives

<u>Yan Cui</u>, Cédric Rentier, Akihiro Taguchi, Kentaro Takayama, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences)

P-011 Peptide foldamers changing their conformations in response to low pH trigger

<u>Kaori Furukawa</u>¹, Makoto Oba¹, Kotomi Toyama¹, Opiyo Geroge Ouma¹, Yosuke Demise², Masaaki Kurihara³, Mitsunobu Doi⁴, Masakazu Tanaka¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, ²National Institute of Health Sciences, ³International University of Health and Welfare, ⁴Osaka University of Pharmaceutical Sciences)

P-012 Synthetic study of cyclic disulfide peptide by using the solid-phase disulfide ligation method <u>Akihiro Taguchi</u>, Yan Cui, Sahoko Fukumoto, Kiyotaka Kobayashi, Saeka Kuraishi, Kentaro Takayama, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

P-013 Porphyrin-peptoid conjugates: controlled porphyrin interactions via peptoid structural change <u>Woojin Yang</u>, Boyeong Kang, Jiwon Seo (Department of Chemistry, School of Physics and Chemistry, Gwangju Institute of Science and Technology)

- P-014 Porphyrin receptor: host-guest effect of chiral *bis*-(zinc porphyrin)-peptoid conjugate Yen Jea Lee, Jiwon Seo (Department of Chemistry, Gwangju Institute of Science and Technology)
- P-015 A facile method to construct azide- and cyanide-containing peptoids on resin <u>Dahyun Kang</u>, Yen Jea Lee, Jiwon Seo (Department of Chemistry, School of Physics and Chemistry, Gwangju Institute of Science and Technology)

P-016 Formation of oxopiperazine-containing peptoids through C-terminal cyclization <u>Yun Jee Lee</u>, Jiwon Seo (Department of Chemistry, School of Physics and Chemistry, Gwangju Institute of Science and Technology)

P-017 A facile method for preferential modification of the N-terminal amino group of peptides using DMT-MM

<u>Hironori Juichi</u>, Atsushi Kitanaka, Yoichiro Nihashi, Masahiro Miyashita, Hisashi Miyagawa (Graduate School of Agriculture, Kyoto University)

P-018 Construction of a hetero-dimeric macrocyclic peptide library for the discovery of peptide ligands that induce IL28RA-IL10RB hetero-dimerization

Satoshi Ishida, Takayuki Katoh, Hiroaki Suga (Graduate School of Science, The University of Tokyo)

P-019 Ralstonins A and B, unique lipopeptides synthesized by quorum sensing-dependent PKS-NRPS in *Ralstonia solanacearum*

<u>Yuta Murai</u>¹, Shoko Mori², Hiroyuki Konno³, Yasufumi Hikichi⁴, Kenji Kai¹ (¹Graduate School of Life and Environmental Sciences, Osaka Prefecture University, ²Bioorganic Research Institute, Suntory Foundation for Life Sciences, ³Graduate School of Science and Technology, Yamagata University, ⁴Laboratory of Plant Pathology and Biotechnology, Kochi University)

- P-020 Total synthesis and biological evaluation of PF1171B, D, E, and avellanins A, B, C Masaya Honda, Yuichi Masuda (Graduate School of Bioresources, Mie University)
- P-021 Total synthesis of neuroactive μ-conotoxin LT5D using two folding strategies

<u>Ansyl Marie B. Naraga</u>¹, Oliver John V. Belleza¹, Iris Bea L. Ramiro², Abe Ernest Johann E. Isagan², Gisela P. Concepcion², Aaron Joseph L. Villaraza¹ (¹Institute of Chemistry, University of the Philippines, ²Marine Science Institute, University of the Philippines)

- P-022 Isolation, purification, and characterization of bioactive peptides from the cone snail, Conus striolatus <u>Abe Ernest Johann E. Isagan</u>¹, Iris Bea L. Ramiro¹, Ansyl Marie B. Naraga², Oliver John V. Belleza², Julita S. Imperial³, Baldomero M. Olivera³, Aaron Joseph L. Villaraza², Gisela P. Concepcion¹ (¹Marine Science Institute, University of the Philippines, ²Institute of Chemistry, University of the Philippines, ³Department of Biology, Salt Lake City, Utah, USA)
- P-023 Isolation and chemical synthesis of a neuroactive peptide from Conus stercusmuscarum Victor M. Chua¹, <u>Oliver John V. Belleza²</u>, Ansyl Marie B. Naraga², Julita S. Imperial³, Aaron Joseph L. Villaraza², Gisela P. Concepcion¹ (¹Marine Science Institute, College of Science, National Science Complex, University of the Philippines, ²Institute of Chemistry, College of Science, National Science Complex, University of the Philippines, ³Department of Biology, University of Utah)

P-024 Effects of novel peptide from fish elastin on cells

<u>Kenji Miyanari</u>¹, Eri Shiratsuchi¹, Mitsuki Takuno², Takahito Komine², Kazunari Arima², Michio Yamada¹ (¹Research & Development division, Hayashikane Sangyo Co., Ltd, ²Department of Chemistry and Bioscience, Graduate School of Science and Engineering, Kagoshima University)

- P-025 Existence and molecular forms of N-formylated peptide derived from cytochrome c oxidase subunit I <u>Toshihiro Shimizu</u>, Tatsuya Hattori, Takayuki Martini, Yoshiaki Kiso, Hidehito Mukai (Laboratory of Peptide Science, Graduate School of Bio-Science, Nagahama Institure of Bio-Science and Technology)
- P-026 2,2'-Dipyridyl disulfide is an efficient deprotectant for N-terminal thiazolidine <u>Hidekazu Katayama</u>, Satoki Morisue (Department of Applied Biochemistry, School of Engineering, Tokai University)
- P-027 Fast and cost effective solid phase synthesis of high quality crude peptides <u>Mandar Maduskar</u>, Hossain Saneii, Mostafa Hatem, Farshad Karimi, Robert Obermann, William Bennett (AAPPTec LLC)
- P-028 Microwave-assisted solid-phase synthesis of peptide-o-aminoanilide: scope and limitations Shugo Tsuda, Tsuyoshi Uemura, Hideki Nishio, Yoshiya Taku (Peptide Institute, Inc.)
- P-029 Evaluation of a new type thioester equivalent using intramolecular N-to-S acyl shift Shugo Tsuda¹, Masayoshi Mochizuki¹, Ken Sakamoto¹, Masaya Denda², Hideki Nishio¹, Akira Otaka², <u>Taku Yoshiya¹</u> (¹Peptide Institute, Inc., ²Institute of Biomedical Sciences and Graduate School of Pharmaceutical Sciences, Tokushima University)
- P-030 Development of imidazole additive to accelerate native chemical ligation <u>Ken Sakamoto</u>, Shugo Tsuda, Masayoshi Mochizuki, Yukie Nohara, Hideki Nishio, Taku Yoshiya (Peptide Institute, Inc.)
- P-031 Development of peptide macrocyclization protocol utilizing o-aminoanilide linker for flow chemistry <u>Takumi Ohara</u>, Masato Kaneda, Tomo Saito, Hiroaki Ohno, Shinya Oishi (Graduate School of Pharmaceutical Sciences, Kyoto University)
- P-032 Synthesis of glycopeptide using Boc group for the protection of carbohydrate hydroxyl groups <u>Tomohiro Tanaka</u>, Mika Shiraishi, Reiko Sugihara, Akio Matsuda, Mamoru Mizuno (The Noguchi Institute)
- P-033 Development of methodology for producing thioesters from naturally occurring peptide sequences

<u>Chiaki Komiya</u>, Jun Tsukimoto, Takuya Morisaki, Yusuke Tsuda, Rin Miyajima, Tsubasa Inokuma, Akira Shigenaga, Kohji Itoh, Akira Otaka (Institute of Health Biosciences and Graduate School of Pharmaceutical Sciences, Tokushima University)

- P-034 Appropriate quality control of middle molecular peptide API, depending on the purpose of use <u>Shunsuke Ochi</u>, Yoshinori Murata (API R&D Center, CMC R&D Division, Shionogi & Co., LTD.)
- P-035 A novel N-protection-free ligation based on the thioester method <u>Hironobu Hojo</u>¹, Toru Kawakami¹, Yuta Hiroyama², Saburo Aimoto¹ (¹Institute for Protein Research, Osaka University, ²Hamari Chemicals, Ltd.)
- P-036 Investigation for the detection of peptides N-terminus on solid support <u>Rio Suzuki</u>, Hiroyuki Konno (Department of Biochemical Engineering, Graduate School of Science and Technology, Yamagata University)
- P-037 Seamless cyclization of collagen-like peptides with Gly-X-Y-repeating sequences <u>Kazuki C. Kuroda</u>, Fumiko Hisamatsu, Takaki Koide (Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda University)
- P-038 Synthetic study for teixobactin Kosuke Ohsawa¹, <u>Takuya Tokunaga¹</u>, Carys Thomas², A. Ganesan², Yuichi Masuda³, Takayuki Doi¹ (¹Graduate School of Pharmaceutical Sciences, Tohoku University, ²School of Pharmacy, University of

East Anglia, ³Graduate School of Bioresources, Mie University)

- P-039 Two tandem-arrayed lysine residues play a key role in an allosteric peptide inhibitor binding to ERK2 Yurika Mori, <u>Takayoshi Kinoshita</u> (Graduate School of Science, Osaka Prefecture University)
- P-040 Phenylalanine to cyclohexylalanine substitution inhibits amyloid formation by Alzheimer's amyloid βpeptide

Mayumi Genji, <u>Yoshiaki Yano</u>, Masaru Hoshino, Katsumi Matsuzaki (Graduate School of Pharmaceutical Sciences, Kyoto University)

P-041 Development of solid-phase synthesis protocol of coibamide A for the structure-activity relationship study

<u>Shinsaku Kawaguchi</u>¹, Kerry L. McPhail², Shinsuke Inuki¹, Hiroaki Ohno¹, Shinya Oishi¹ (¹Graduate School of Pharmaceutical Sciences, Kyoto University, ²College of Pharmacy, Oregon State University)

- P-042 Phe271^{5.39} of thrombin receptor PAR-1 is a specific target of Phe-2-phenyl group of its tethered ligand <u>Makiko Sugiyama</u>¹, Tsugumi Fujita², Xiaohui Liu¹, Yutaka Matsuyama¹, Ayami Matsushima¹, Miki Shimohigashi³, Yasuyuki Shimohigashi⁴ (¹Department of Chemistry, Faculty and Graduate School of Science, Kyushu University, ²Department of Physiology, Saga Medical School, ³Department of Earth System of Science, Faculty of Science, Fukuoka University, ⁴Risk Science Project Laboratory, Kyushu University)
- P-043 Structure-activity relationship study for α-dystroglycan binding peptide A2G80 derived from mouse laminin α2 chain sequence

<u>Fumihiko Katagiri</u>, Yuka Fukasawa, Jun Kumai, Kentaro Hozumi, Yamato Kikkawa, Motoyoshi Nomizu (Department of Clinical Biochemistry, Tokyo University of Pharmacy and Life Sciences)

P-044 In silico analysis strategy to explore the active conformers of cyclic peptides and docking to their receptor

Akitoshi Okada, Yoshirou Kimura, Ryoichi Kataoka (Life Science Department, MOLSIS Inc.)

P-045 Development of cationic cell-penetrating peptides focused on their secondary structures

<u>Hiroyuki Kobayashi</u>^{1,2}, Takashi Misawa², Makoto Oba³, Masakazu Tanaka³, Mikihiko Naito², Kenji Matsuno¹, Yosuke Demizu² (¹School of Advanced Engineering, Kogakuin University, ²Division of Organic Chemistry, National Institute of Health Sciences, ³Graduate School of Biomedical Sciences, Nagasaki University)

P-046 Development of post functionalizable oligopeptides as helical templates

Takashi Misawa, Yosuke Demizu (Division of Organic Chemistry, National Institute of Health Sciences)

P-047 Structure-hydrogelation relationship of self-assembling peptides with urea bond toward cell scaffold material

Iori Kodama, Hisakazu Mihara, Hiroshi Tsutsumi (School of Life science and Technology, Tokyo Institute of Technology)

P-048 Proline residue promotes self-association of transmembrane helices

Jun Uehara, Yoshiaki Yano, Katsumi Matsuzaki (Graduate School of Pharmaceutical Sciences, Kyoto University)

P-049 Comparison of proteolytic activity of 5-mer peptides derived from box A domain of Tob/BTG family proteins

<u>Yusuke Hatakawa</u>¹, Rina Nakamura², Masanari Taniguchi¹, Motomi Konishi¹, Toshifumi Akizawa^{1,2} (¹Laboratory of Clinical Analytical Chemistry, Faculty of Pharmaceutical Sciences, Setsunan University, ²O-force Co. Ltd.)

P-050 Characterization of the Ca²⁺-coordination structures of T- and L-plastins by infrared spectroscopy in combination with synthetic peptide analogue

<u>Masayuki Nara</u>¹, Hisayuki Morii^{1,2}, Takashi Shimizu², Hiroto Shinomiya³, Yuka Furuta⁴, Kenichi Miyazono⁴, Takuya Miyakawa⁴, Masaru Tanokura⁴ (¹College of Liberal Arts and Sciences, Tokyo Medical and Dental University (TMDU), ²National Institute of Advanced Industrial Science and Technology (AIST), ³Department of Medicine, Ehime University, ⁴Graduate School of Agricultural and Life Sciences, University of Tokyo)

P-051 Design of programmable pore-forming model using β-sheet peptides

<u>Keisuke Shimizu</u>¹, Naoki Saigo¹, Yusuke Sekiya¹, Shungo Sakashita², Yoshio Hamada², Kenji Usui², Ryuji Kawano¹ (¹Department of Life Science and Biotechnology, Tokyo University of Agriculture and Technology, ²Department of Nanobiochemistry, Konan University)

P-052 Can peptide deformylase produces methionine aminopeptidase inhibitors from their formylatedprecursors?

<u>Yukari Oishi</u>¹, Yuri Takami¹, Junichi Taira², Hiroaki Kodama¹, Satoshi Osada¹ (¹Department of Chemistry and Applied Chemistry, Faculty of School and Engineering, Saga University, ²Department of Bioscience and Bioinformatics, Kyushu Institute of Technology)

P-053 Channel current measurement and analysis for programmable designs of stable pore-forming alphahelical peptides in lipid bilayer

<u>Yusuke Sekiya</u>, Ryuji Kawano (Department of Biotechnology and Life Science, Tokyo University of Agriculture and Technology)

P-054 Analysis of membrane permeation activity of cellpenetrating peptides using channel current measurements

<u>Naoki Saigo</u>¹, Yusuke Sekiya¹, Akira Ishiguro², Yukihito Ishizaka², Ryuji Kawano¹ (¹Department of Life Science and Biotechnology, Tokyo University of Agriculture and Technology, ²Department of Intractable Diseases, National Center for Global Health and Medicine)

P-055 Design of plasmin inhibitor with targeting the S2' subsite

Seika Sugiura¹, Koushi Hidaka^{1,2}, Keiko Hojo^{1,2}, Keigo Gohda³, Naoki Teno⁴, Keiko Wanaka⁵, <u>Yuko</u> <u>Tsuda</u>^{1,2} (¹Faculty of Pharmaceutical Sciences, Kobe Gakuin University, ²Cooperative Research Center of Life Sciences, Kobe Gakuin University, ³Computer-Aided Molecular Modeling Research Center, Kansai, ⁴Faculty of Clinical Nutrition, Hiroshima International University, ⁵Research Projects on Thrombosis and Haemostasis)

P-056 Interaction detail between sugar chain on HSV-1 glycoprotein with immune receptor PILRa

<u>Takao Nomura</u>¹, Kosuke Kakita², Atsushi Furukawa³, Masahiro Anada², Shunichi Hashimoto², Shigeki Matsunaga², Takashi Saitoh⁴, Katsumi Maenaka^{1,3} (¹Center for Research and Education on Drug Discovery, Faculty of Pharmaceutical Sciences, Hokkaido University, ²Laboratory of Synthetic and Industrial Chemistry, Faculty of Pharmaceutical Sciences, Hokkaido University, ³Laboratory of Biomolecular Science, Faculty of Pharmaceutical Sciences, Hokkaido University, ⁴School of Pharmacey, Hokkaido Pharmaceutical University)

P-057 Comprehensive phylogeny-based analysis for molecular evolution of p53 family proteins

<u>Fuki Kudoh</u>, Natsumi Nakagawa, Rui Kamada, Kazuyasu Sakaguchi (Laboratory of Biological Chemistry, Department of Chemistry, Faculty of Science, Hokkaido University)

P-058 Correlation between transcriptional activity and tetrameric structure stability of vertebrate p53 proteins

<u>Natsumi Nakagawa</u>, Junya Wada, Toshiaki Imagawa, Rui Kamada, Kazuyasu Sakaguchi (Laboratory of Biological Chemistry, Department of Chemistry, Faculty of Science, Hokkaido University)

P-059 Novel methods for blocking amyloidogenesis of prion protein (180–193)

<u>Ikumi Shibatate</u>¹, Tomomi Ueda¹, Hisayuki Morii², Misaki Kinoshita³, Young-Ho Lee³, Shinji Hashimoto¹, Masatoshi Saiki¹ (¹Faculty of Engineering, Tokyo University of Science, Yamaguchi, ²College of Liberal Arts and Sciences, Tokyo Medical and Dental University, ³Institute for Protein Research, Osaka University)

P-060 Mitocryptide-2: ligand recognition mechanisms of formyl-peptide receptor 1 and its homologue formyl-peptide receptor 2

Kodai Nishino, Takayuki Marutani, Tatsuya Hattori, Yoshiaki Kiso, Hidehito Mukai (Laboratory of Peptide Science, Graduate School of Bio-Science, Nagahama Institute of Bio-Science and Technology)

P-061 Structure-activity relationship of the G-CSF receptor binding peptides

<u>Ayana Oshima</u>, Asako Yamaguchi-Nomoto, Ikuo Fujii (Department of Biological Science, Graduate School of Science, Osaka Prefecture University)

P-062 Identification of dipeptidic inhibitors targeting DPP7 derived from multiple drug resistant bacteria Stenotrophomonas maltophilia

Yuki Sakurai¹, <u>Koushi Hidaka</u>^{1,2}, Anna Miyazaki^{1,2}, Keiko Hojo^{1,2}, Saori Roppongi³, Yasumitsu Sakamoto³, Yasuhiro Ito⁴, Yoshiyuki Suzuki⁴, Wataru Ogasawara⁴, Nobutada Tanaka⁵, Yuko Tsuda^{1,2} (¹Faculty of Pharmaceutical Sciences, Kobe Gakuin University, ²Cooperative Research Center for Life Sciences, Kobe Gakuin University, ³School of Pharmacy, Iwate Medical University, ⁴Department of Bioengineering, Nagaoka University of Technology, ⁵School of Pharmacy, Showa University)

P-063 A helix-loop-helix peptide inhibiting intracellular p53-HDM2 interaction: a role of poly Arg in noninteracting surface of the N-terminal helix

Shunsuke Inaura, Hidekazu Kitada, Kazunori Zikihara, Daisuke Fujiwara, Ikuo Fujii (Department of Biological Science, Graduate School of Science, Osaka Prefecture University)

- P-064 Synthesis and structural investigation of cyclosporin A and cyclosporin O Dongjae Lee, Sungjin Lee, Chin-ju Park, Jiwon Seo (Department of Chemistry, School of Physics and Chemistry, Gwangju Institute of Science and Technology)
- P-065 Development of anti-HER2 antibody mimetics with structually constrained CDR peptides <u>Wanaporn Yimchuen</u>¹, Tetsuya Kadonosono¹, Kyra See¹, Tadaomi Furuta², Takahiro Kuchimaru¹, Shinae Kondoh¹ (¹School of Life Science and Technology, Tokyo Institute of Technology, ²Center for Biological Resources and Informatics, Tokyo Institute of Technology)
- P-066 Immunogenicity of a FAP2 peptide mimotope of *Fusobacterium nucleatum* and its use in an immunoassay-based diagnostics tool for colorectal cancer

<u>Leonardo A. Guevarra Jr.</u>^{1,4}, Andrea Claudine F. Afable¹, Patricia Joyce O. Belza¹, Karen Joy S. Dy¹, Scott Justin Q. Lee¹, Teresita Ortin-Sy³, Pia Marie Albano^{2,4} (¹Department of Biochemistry, Faculty of Pharmacy, University of Santo Tomas, ²Department of Biology, College of Science, University of Santo Tomas, ³Benavidez Cancer Institute, University of Santo Tomas, ⁴Research Center for Natural and Applied Sciences, University of Santo Tomas)

P-067 Actions of orexin B on spontaneous inhibitory synaptic transmission in adult rat spinal superficial dorsal horn neurons

Chong Wang, <u>Tsugumi Fujita</u>, Nobuya Magori, Rika Suzuki, Fan Yang, Eiichi Kumamoto (Department of Physiology, Saga Medical School)

- P-068 Cellular effects of artificial ubiquitin ligases on cancer cells <u>Mayumi Sunagawa</u>, Ayumi Yamashita, Kazuki Saito, Kazuhide Miyamoto (Pharmaceutical Sciences, Himeji Dokkyo University)
- P-069 Intracellular delivery of bioactive proteins using endosome destabilizing peptide L17E <u>Misao Akishiba¹</u>, Toshihide Takeuchi¹, Yoshimasa Kawaguchi¹, Kentarou Sakamoto, Ikuhiko Nakase², Shiroh Futaki¹ (¹Institute for Chemical Research, Kyoto University, ²Nanoscience and Nanotechnology Research Center, Research Organization for the Twenty First Century, Osaka Prefecture University)
- P-070 Creation of high performance antibody drug alternatives harvoring constrained CDR peptides <u>Tetsuya Kadonosono¹</u>, Yumi Ota¹, Wanaporn Yimchuen¹, Kyra See¹, Tadaomi Furuta², Takahiro Kuchimaru¹, Shinae Kondoh¹ (¹School of Life Science and Technology, Tokyo Institute of Technology, ²Center for Biological Resources and Informatics, Tokyo Institute of Technology)
- P-071 Synthesis and biological evaluation of medium-chain alkyl sulfoniododecaborate containing *p*-boronophenylalanine

<u>Yoshihide Hattori</u>¹, Miki Ishimura¹, Youichirou Ohta¹, Hiroshi Takenaka¹, Kouki Uehara², Tomoyuki Asano², Mitsunori Kirihata¹ (¹Research Center of BNCT, Osaka Prefecture University, ²Stella Pharma Co.)

P-072 Lysine-specific demethylase 1 inhibitory activity of histone H3 peptides incorporating modified lysine 4 <u>Taeko Kakizawa</u>¹, Yosuke Ota², Yukihiro Itoh², Takayoshi Suzuki² (¹Department of Chemistry and Biochemistry, School of Advanced Science and Engineering, Waseda University, ²Graduate School of Medical Science, Kyoto Prefectural University of Medicine) P-073 Novel antimicrobial/anti-inflammatory peptides designed from human LL-37 with therapeutic potential

<u>Ganesan Rajasekaran</u>¹, Song Yub Shin^{1,2} (¹Department of Biomedical Science, Graduate School, Chosun University, ²Department of Cellular & Molecular Medicine, School of Medicine, Chosun University)

P-074 Cell selectivity and anti-inflammatory activity of the D-amino acid substituted derivatives of LL-37derived short antimicrobial peptide KR-12-A5

Song Yub Shin (Department of Cellular & Molecular Medicine, School of Medicine, Chosun University)

- P-075 Antimicrobial activity of endosome destabilizing peptide L17E and some analogues <u>Naoki Tamemoto</u>, Misao Akishiba, Kentarou Sakamoto, Jun Kawamoto, Tatsuo Kurihara, Shiroh Futaki (Institute for Chemical Research, Kyoto University)
- P-076 Discovery of novel peptide ligand for nucleolin (NCL) overexpressed cancer cell Jae-hyun Kim, Kyeong-min Kim, Young-Joon Kim, Zee Yong Park, Jae Il Kim (Department of Life Science, Gwangju Institute of Science and Technology)
- P-077 Development of HER2-targeting small protein harboring a structurally constrained peptide <u>Yumi Ota</u>¹, Tetsuya Kadonosono¹, Takahiro Kuchimaru¹, Masumi Taki², Yuji Ito³, Shinae Kondoh¹ (¹School of Life Science and Technology, Tokyo Institute of Technology, ²Department of Engineering Science, the Graduate School of Informatics and Engineering, the University of Electro-Communications (UEC), ³Department of Chemistry and Bioscience, Graduate School of Science and Engineering, Kagoshima University)
- P-078 Btk kinase inhibitor study using 3D-QSAR and molecular dynamics simulations Seung Joo Cho^{1,2} (¹Chosun University, ²Department of Cellular and Molecular Medicine, College of Medicine, Chosun University)
- P-079 Structure-activity relationship study of MAP(Aib)-cRGD conjugates as carriers for siRNA delivery Shun-ichi Wada, Anna Takesada, Eri Sogabe, Rieko Ohki, Aki Kawakita, Junsuke Hayashi, Hidehito Urata (Osaka University of Pharmaceutical Sciences)
- P-080 Cyclosporine A-loaded nano-matrix particles prepared with multi-inlet vortex mixer for inhalation <u>Hideyuki Sato¹</u>, Hiroki Suzuki¹, Keisuke Yakushiji¹, Jennifer Wong², Yoshiki Seto¹, Robert K. Prud'homme³, Hak-Kim Chan², Satomi Onoue¹ (¹Department of Pharmacokinetics and Pharmacodynamics, University of Shizuoka, ²Advanced Drug Delivery Group, Faculty of Pharmacy, The University of Sydney, ³Department of Chemical & Biological Engineering, Princeton University)
- P-081 Development of fluorescence-quenched substrate for discovering antibodies capable of hydrolyzing tau protein

<u>Hiroaki Taguchi</u>¹, Yasuhiro Ishihara¹, Yoshio Fujita¹, Emi Hifumi², Taizo Uda^{3,4} (¹Faculty of Pharmaceuticals Sciences, Suzuka University of Medical Science, ²Research Promotion Institute, Oita University, ³Faculty of Engineering, Oita University, ⁴Institute of Systems, Information Technologies and Nanotechnologies)

P-082 Identification of receptor molecules for mitocryptide-3, a novel neutrophil-activating peptide derived from mitochondrial transit sequence

<u>Takayuki Marutani</u>, Shinichiro Tamura, Kenta Nakashima, Kodai Nishino, Hiroki Morikawa, Tatsuya Hattori, Yoshiaki Kiso, Hidehito Mukai (Laboratory of Peptide Science, Graduate School of Bio-Science, Nagahama Institute of Bio-Science and Technology)

P-083 Identification of laminin α5 short arm peptides active for endothelial cell attachment and tube formation

<u>Xiao Yang</u>, Yumika Sugawara, Nozomi Harashima, Shogo Fujii, Kazuki Ikari, Jun Kumi, Fumihiko Katagiri, Kentaro Hozumi, Yamato Kikkawa, Motoyoshi Nomizu (Department of Clinical Biochemistry, School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

P-084 Novel water-soluble prodrug of β-secretase inhibitor as an anti-Alzheimer's disease drug

<u>Yoshio Hamada</u>, Kenji Usui (Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University)

P-085 Lysosome-targeting drug delivery system using the H16 peptide-modified liposome <u>Taiki Hayashi</u>, Tsuyoshi Kawano, Takashi Iwasaki (Graduate School of Sustainability Science, Tottori University)

P-086 Construction of bispecific antibody by site-specific chemical conjugation with IgG-binding peptide Satoshi Kishimoto, Abdor Rafique, Kanade Fujisaki, Nobuyuki Nagamizo, Dai-ichiro Kato, Yuji Ito (Department of Chemistry and Bioscience, Graduate School of Science and Engineering, Kagoshima University)

P-087 Mitocryptide-1: investigation of pathophysiological roles of mitocryptide-1 utilizing its specific neutralizing monoclonal antibody

<u>Hiroki Morikawa</u>, Tatsuya Hattori, Yoshito Takamuro, Takayuki Marutani, Yoshiaki Kiso, Hidehito Mukai (Graduate School of Bio-Science, Nagahama Institute of Bio-Science and Technology)

P-088 Diclofenac-loaded cross-linked polylysine for sustained-release with reduced gastric damage <u>Aiko Tabata</u>, Tatsuki Hirano, Ayaka Daicho, Yoshiki Seto, Hideyuki Sato, Satomi Onoue (Department of Pharmacokinetics and Pharmacodynamics, School of Pharmaceutical Sciences, University of Shizuoka)

P-089 Antibacterial mechanism of pleurocidin peptide via apoptosis-like death in *Escherichia coli* <u>Lee Bin</u>, Lee Dong Gun (School of Life Sciences, BK 21 Plus KNU Creative BioResearch Group, College of Natural Sciences, Kyungpook National University)

P-090 A mechanism for the antibacterial effect of arenicin-1 on Escherichia coli

Lee Heejeong, Lee Dong Gun (School of Life Sciences, BK 21 Plus KNU Creative BioResearch Group, College of Natural Sciences, Kyungpook National University)

P-091 Rational design of KRAS-SOS1 interaction inhibitor using helix-loop-helix peptide scaffold

Kousuke Mihara^{1,2}, Daisuke Fujiwara¹, Ikuo Fujii¹ (¹Department of Biological Science, Osaka Prefecture University, ²Medicinal Chemistry Research Laboratory, Shionogi & Co., Ltd.)

P-092 Identification of α-dystroglycan binding sequence in the laminin α2 chain LG4-5 module using peptidechitosan matrix ELISA method

<u>Guangrui Zhang</u>, Jun Kumai, Kazuki Ikari, Xiao Yang, Yumika Sugawara, Fumihiko Katagiri, Kentaro Hozumi, Yamato Kikkawa, Motoyoshi Nomizu (School of Pharmacy, Tokyo University of Pharmacy and Life Sciences)

P-093 Design and synthesis of hydrocarbon stapling peptide antagonists for relaxin family peptide receptor 3 (RXFP3)

<u>Keiko Hojo</u>¹, Mika Izutsu¹, Ross AD Bathgate², K Johan Rosengern³, Koushi Hidaka¹, Yuko Tsuda¹, Mohammad A Hossain^{2,4}, John D Wade^{1,4} (¹Faculty of Pharmaceutical Sciences, Kobe Gakuin University, ²Florey Neuroscience Institute and Mental Health, University of Melbourne, ³School of Biomedical Sciences, University of Queensland, ⁴School of Chemistry, University of Melbourne)

P-094 Synthesis and characterization of radiobromine-labeled bioactive peptides for molecular imaging <u>Keiichi Yamada¹</u>, Shigeki Watanabe², Ichiro Sasaki^{1,2}, Hirofumi Hanaoka³, Noriko S. Ishioka² (¹Division of Molecular Science, Gunma University, ²Department of Radiation-applied Biology, National Institutes for Quantum and Radiological Science and Technology, ³Graduate School of Medicine, Gunma University)

P-095 Efficient cellular uptake of the EGFR juxtamembrane domain peptide and its effects on receptor activation

<u>Ayaka Sugiyama</u>^{1,2}, Takeshi Sato³, Ikuhiko Nakase² (¹College of Life, Environment, and Advanced Sciences, Osaka Prefecture University, ²NanoSquare Research Institution, Osaka Prefecture University, ³Division of Liberal Arts Sciences, Kyoto Pharmaceutical University)

P-096 Construction of hydrocarbon stapled cellpenetrating peptides to deliver short RNAs Soonsil Hyun¹, Changjin Lee², Yan Lee³, Jaehoon Yu¹ (¹Department of Chemistry & Education, Seoul National University, ²Hugel, Inc., ³Department of Chemistry, Seoul National University)

P-097 A question revisited; Do lysozyme have a correlated antimicrobial activity with its enzymatic activity against gram-negative bacteria?

Doyeon Jo, Soonsil Hyun, Jaehoon Yu (Department of Chemistry & Education, Seoul National University)

P-098 Pyrrole-based small-molecule inhibitors targeting oocyte maturation

Pethaiah Gunasekaran, Jeong Kyu Bang (Division of Magnetic Resonance, Korea Basic Science Institute)

P-099 Detection of E2 activities in cancer cells using an artificial E3 ligase <u>Ayumi Yamashita</u>, Kazuki Saito, Kazuhide Miyamoto (Pharmaceutical Sciences, Himeji Dokkyo University)

P-100 Cellular internalization mechanisms of all-hydrocarbon stapled peptides Koki Sakagami, Shiroh Futaki (Institute for Chemical Research, Kyoto University)

P-101 Approach to control cell movement by changing membrane tension

Toshihiro Masuda, Tomo Murayama, Shiroh Futaki (Institute for Chemical Research, Kyoto University)

P-102 Novel macropinocytosis-inducing cell penetrating peptides

Jan Vincent V. Arafiles, Kenichi Kawano, Shiroh Futaki (Institute for Chemical Research, Kyoto University)

P-103 A stapled α-helix peptide library displayed on phage for screening of peptide ligands binding to galectin-3

Teerapat Anananuchatkul¹, Iou Ven Chang², <u>Hiroshi Tsutsumi</u>¹, Hisakazu Mihara¹ (¹Department of Bioengineering, School of Life Science and Technology, Tokyo Institute of Technology, ²Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology)

P-104 Structural-based design of a monosaccharide-modified α-helix peptide library for selective ligands to carbohydrate-binding proteins by a phage display method

<u>Iou Ven Chang</u>¹, Hisakazu Mihara^{1,2}, Hiroshi Tsutsumi^{1,2} (¹Department of Bioengineering, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, ²Life Science and Technology, Tokyo Institute of Technology)

P-105 Development of artificial bleomycin analogue: Pentadentate carboxamide ligand having spermine moiety for DNA binding

Akiko Nomura¹, Ryosuke Sakai², Yuji Iwamoto², Masahito Kodera², <u>Yutaka Hitomi</u>² (¹Research Center for Nano-Bioscience Research, Doshisha University, ²Department of Applied Chemistry, Graduate School of Science and Engineering, Doshisha University)

P-106 Development of rat heme oxygenase-1 based gene encoded heme probe for intracellular heme detection Junichi Taira, Otomi Nakashima, Hideyuki Komatsu, Hiroshi Sakamoto (Department of Bioscience and Bioinformatics, Graduate School of Computer Science and Systems Engineering, Kyushu Institute of Technology)

P-107 Substrate recogniton of L-type amino acid transporter 3 (LAT3)

- Toru Oba¹, <u>Rino Iwakami</u>¹, Kota Miyata¹, Promsuk Jutabha², Naohiko Anzai^{2,3} (¹Department of Material and Environmental Chemistry, Graduate school of Engineering, Utsunomiya University, ²Department of Pharmacology and Toxicology, Dokkyo Medical University School of Medicine, ³Department of Pharmacology, Chiba University Graduate School of Medicine)
- P-108 Development and evaluation of cell-penetrating peptides having cyclic disubstituted amino acids <u>Takuma Kato</u>^{1,2}, Makoto Oba¹, Masakazu Tanaka¹ (¹Graduate School of Biomedical Sciences, Nagasaki University, ²Osaka University of Pharmaceutical Sciences)
- P-109 Identification of plasminogen-binding and -activation sequences in *Plasmodium falciparum* enolase: Implication for the parasite invasion mechanism into the host cell

<u>Hiroyuki Oku</u>, Nana Isomoto, Yudai Kimoto, Shinya Kitamura, Keiichi Yamada, Kazuo Shinozuka (Division of Molecular Science, Graduate School of Science and Engineering, Gunma University)

- P-110 Epigenetic analysis of histone H2A-H2B dimer powered by protein chemical synthesis Gosuke Hayashi¹, Takuma Sueoka¹, Akimitsu Okamoto^{1,2} (¹Department of Chemistry and Biotechnology, The University of Tokyo, ²RCAST, The University of Tokyo)
- P-111 In vitro selection of macrocyclic peptides binding covalently to a target protein

<u>Naoya Ozawa</u>, Yuki Goto, Hiroaki Suga (Department of Chemistry, Graduate School of Science, The University of Tokyo)

P-112 Antioxidative activities of caffeoyl-prolyl-histidyl-Xaa tripeptides

<u>Hyeri Jung</u>¹, Seojung Kim¹, Jaehi Kim², Dong-Sik Shin¹, Yoon-Sik Lee² (¹Department of Chemical and Biological Engineering, College of Engineering, Sookmyung Women's University, ²School of Chemical and Biological Engineering, College of Engineering, Seoul National University)

P-113 Cell micropatterning on hydrogel for single cell protease detection

<u>Da-Young Youn</u>, Kyoung Eun Park, Dong-Sik Shin (Department of Chemical & Biological Engineering and Department of Medical & Pharmaceutical Sciences, Sookmyung Women's University)

P-114 Development of novel amyloid β peptide-binding compounds based on the alkene-to-amide isosteric switch stragety

<u>Tomoyuki Imai</u>, Kohei Sato, Nobuyuki Mase, Tetsuo Narumi (Graduate School of Integrated Science and Technology, Shizuoka University)

- P-115 Synthesis of VEGF-targeting helix-loop-helix peptide-monomethyl auristatin E conjugate <u>Haruna Yamashita</u>, Masakata Michigami, Ikuo Fujii (Department of Biological Science, Graduate School of Science, Osaka Prefecture University)
- P-116 A versatile method for modifying in vitro displayed macrocyclic peptide

Shiori Umemoto, Seino A. Jongkees, Hiroaki Suga (Graduate School of Science, University of Tokyo)

P-117 Screening of peptide tag for selective protein labeling with zinc complex and its application to fluorescence bioimaging

<u>Nobutaka Kurashige</u>¹, Hirokazu Fuchida¹, Shigekazu Tabata², Shohei Uchinomiya¹, Akio Ojida¹ (¹Graduate School of Pharmaceutical Sciences, Kyushu University, ²Institute of Science and Technology Austria)

P-118 Oral administlation of geniposidic acid may induce secretion of atrial natriuletic peptide in spontaneously hypertensive rats

<u>Shohei Yamaguchi</u>¹, Shingo Hosoo², Masahiro Koyama¹, Ryo Yamazaki¹, Tetsuya Hirata², Yasuyo Yamaguchi², Hiroo Yamasaki², Naoto Minamino³, Keiji Wada⁴, Sansei Nishibe⁴, Kozo Nakamura¹ (¹Department of Bioscience and Biotechnology, Faculty of Agriculture, Shinshu University, ²R&D Center, Kobayashi Pharmaceutical Co., Ltd, ³Omics Research Center, National Cerebral and Cardiovascular Center, ⁴Department of Pharmaceutical Sciences, Health Sciences University of Hokkaido)

P-119 Fish-derived collagen peptides improve maintenance of cultured human dermal fibroblasts

<u>Masayo Kimura</u>¹, Ikurou Tanaka¹, Tsutomu Nozaki¹, Ryo Akimoto¹, Ken-o Ishihara¹, Hiroyuki Fujita², Toshio Nishiyama³ (¹BHN Co., Ltd., ²Faculty of Bioenviromental Science, Kyoto Gakuen University, ³Scleroprotein Research Institute, Faculty of Agriculture, Tokyo University of Agriculture and Technology)

P-120 Identifying antibacterial target(s) of the repositioning drugs by *in vivo* mutagenesis

<u>Yunhwa Choi</u>¹, Changkyu Yoon², Yeongjae Seok², Jaehoon Yu¹ (¹Department of Chemistry & Education, Seoul National University, ²Department of Biological Science, Seoul National University)

P-121 Complexation of nucleic acids and peptides tethering a nuclear localization signal for intracellular DNA delivery

<u>Shunsuke Kataoka</u>¹, Takahito Imai¹, Kenji Usui², Kin-ya Tomizaki¹ (¹Department of Materials Chemistry, Ryukoku University, ²Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University)

P-122 Selective recovery of gold from mixtures of noble metal ions with aromatic ring-containing peptides

<u>Takuya Okamoto</u>, Takahito Imai, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

P-123 Synthesis of titania nanostructures by silica etching of silica-peptide complex

Makoto Kasuga, Takahitio Imai, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

P-124 Cell adhesion onto hydroxyapatite surface modified with collagen model peptides with a phosphate group and cell recognition sequences.

<u>Takumi Yamamoto</u>, Takahito Imai, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)

- P-125 Synthesis of fatty acid containing peptides and their use for gold nanocrystal synthesis as templates <u>Naoyuki Tsukamoto</u>, Takahito Imai, Kin-ya Tomizaki (Department of Materials Chemistry, Ryukoku University)
- P-126 Synthesis of noble metal nanoparticals by peptides containing various aromatic side chains under light irradiation conditions

<u>Takahiro Uchiyama</u>, Takahito Imai, Kin-ya Tomizaki (Department of Materials Chemistry, Ruyukoku University)

P-127 Design and synthesis of novel membrane lytic peptides for drug release tool from liposomal vehicle <u>Ayumi Kashiwada</u>, Masaki Mizuno, Nami Aoyagi (Graduate School of Industrial Technology, Nihon University)

P-128 Investigation of chain length of thermosensitive polyproline

<u>Makoto Kitamura</u>¹, Mitsuhiro Yuge², Sachiro Kakinoki³, Yoshiaki Hirano³, Masahito Oka⁴ (¹National Insititute of Technology, Nara College, ²Mitsuboshi Belting LTD., ³Department of Chemistry and Materials Engineering, Faculty of Chemistry, Materials and Bioengineering, Kansai University, ⁴Professor Emeritus, Osaka Prefecture University)

P-129 Fabrication of titanium-cell interface by peptide nanofibers with sequences for titanium binding and cell recognition

<u>Koji Kawamoto</u>¹, Masayuki Yamasaki², Takahito Imai¹, Kin-ya Tomizaki¹ (¹Department of Materials Chemistry, Ryukoku University, ²Department of Food Sciences and Human Nutrition, Ryukoku University)

P-130 Preparation and dielectric properties of peptide nanotube organization controlling macro-dipole by using bis-cyclic β peptide

Kazushi Takagaki, Shunsaku Kimura (Graduate School of Engineering, Kyoto University)

P-131 Regular alignment of chromophores at side chains along peptide nanotube self-assembling cyclic αand β-peptide

<u>Yuki Tabata</u>, Shunsaku Kimura (Department of Material Chemistry, Graduate School of Engineering, Kyoto University)

P-132 Multifunctional mesoporous silica nanoparticles for boron neutron capture therapy

<u>Vincent Jallet</u>¹, Guillaume Varès¹, Cédric Rentier², Yoshio Hayashi² (¹Advanced Medical Instrumentation Unit, Okinawa Institute of Science and Technology, ²Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences)

P-133 Tunable formation of Lipid-peptide nanodiscs toward a novel liposome engineering

<u>Hirotaka Hori</u>¹, Daizaburou Hiyama¹, Kazunari Matsumura² (¹Graduate School of Engineering, Shibaura Institute of Technology, ²Faculty of Engineering, Shibaura Institute of Technology)

P-134 Creation of photoresponsive artificial viral capsid bearing azobenzene <u>Seiya Fujita</u>, Kazunori Matsuura (Department of Chemistry and Biotechnology, Graduate School of Engineering, Tottori University)

P-135 Sign tuning of circularly polarized luminescence (CPL) in bipyrenyl peptides

Yuki Mimura¹, Sayaka Kitamura¹, Motohiro Shizuma², Mizuki Kitamatsu¹, Michiya Fujiki³, <u>Yoshitane</u> <u>Imai</u>¹ (¹Department of Applied Chemistry, Faculty of Science and Engineering, Kindai University, ²Department of Biochemistry, Osaka Research Institute of Industrial Science and Technology, ³Graduate School of Materials Science, Nara Institute of School and Technology)

P-136 A novel covalently-labeling method of IgG by using protein A-mimic peptide

<u>Arisa Himeno</u>, Yosuke Nakashima, Ryo Yatomaru, Shun Hashimoto, Md. Kamrul Hasan Khan, Daiichiro Kato, Yuji Ito (Department of Chemistry and Bioscience, Graduate School of Science and Engineering, Kagoshima University)

P-137 Switch of DNA structure formation using PNA peptides with a protease substrate sequence

Shungo Sakashita, Arisa Okada, Masayuki Shimooka, Yoshio Hamada, Kenji Usui (Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University)

P-138 Design of β-hairpin peptides incorporating RGDS sequence

<u>Ryosuke Yokokawa</u>¹, Ayaki Jo¹, Sachiro Kakinoki^{1,2}, Yoshiaki Hirano^{1,2} (¹Faculty of Chemistry, Materials and Bioengineering, Kansai University, ²Organization for Research and Development of Innovative Science and Technology (ORDIST), Kansai University)

P-139 Producing nanomaterials by digestion of amyloid beta peptide using protease

<u>Shin-ichiro Yokota</u>¹, Yasumasa Mashimo², Eita Tatsumi¹, Taishi Yamagihara¹, Yoshio Hamada¹, Rui Kawatahara³, Youji Harada³, Masayosu Mie², Eiry Kobatake², Kenji Usui¹ (¹Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, ²Department of Life Science and Technology, School of Life Science and Technology, Tokyo Institute of Technology, ³Clean Chemical Co., Ltd)

P-140 Functionalization of biomedical polymers using the poly(propylene oxide)-binding peptides as a molecular tool

<u>Toshiki Sawada</u>, Misaki Takizawa, Hiroki Fukuta, Takeshi Serizawa (Department of Chemical Science and Engineering, Tokyo Institute of Technology)

- P-141 Antimicrobial and cell-membrane-penetrating activities of a histone H2B-derived fragment peptide Nanako Yamanaka, <u>Shawichi Iwamuro</u> (Department of Biology, Faculty of Science, Toho University)
- P-142 Homodimer function of human nuclear receptor ERRα evidenced using α-helix peptides in the dimer interface

<u>Xiaohui Liu</u>¹, Hiroyuki Nakagawa², Makiko Sugiyama¹, Ayami Matsushima¹, Miki Shimohigashi², Yasuyuki Shimohigashi³ (¹Department of Chemistry, Faculty and Graduate School of Science, Kyushu University, ²Department of Earth System of Science, Faculty of Science, Fukuoka University, ³Risk Science Project Laboratory, Kyushu University)

P-143 Peptide nucleic acid possessing PreQ₁ as a cationic analogue of guanine

<u>Toru Sugiyama</u>¹, Misaki Kohara¹, Keiko Kuwata², Yasutada Imamura³, Yosuke Demizu⁴, Masaaki Kurihara⁵, Atsushi Kittaka¹ (¹Faculty of Pharmaceutical Sciences, Teikyo University, ²Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University, ³Faculty of Engineering, Kogakuin University, ⁴Division of Organic Chemistry, National Institute of Health Sciences, Ministry of Health and Welfare, ⁵School of Pharmacy, International University of Health and Welfare)

P-144 A screen for Rab family proteins modulating secretion of INS-35, one of the *C. elegans* insulin-like peptides

<u>Masumi Ohnishi</u>, Takashi Iwasaki, Tsuyoshi Kawano (Department of Life and Bioresource Sciences, Graduate School of Agriculture, Tottori University)

P-145 Preparation of pigment-peptide complexes that partially lack bacteriochlorophyll *a* pigments from LH2 proteins of purple photosynthetic bacteria

<u>Yoshitaka Saga</u>^{1,2}, Yoshitaka Fukuda¹ (¹Faculty of Science and Engineering, Kindai University, ²PRESTO, JST)

P-146 Mutual co-work between human nuclear receptor ERa and ERRγ requires their homodimerization Xiaohui Liu¹, Miki Shimohigashi², Makiko Sugiyama³, Ayami Matsushima¹, <u>Yasuyuki Shimohigashi⁴</u> (¹Department of Chemistry, Faculty of Science, Kyushu University, ²Department of Earth System of

Science, Faculty of Science, Fukuoka University, ³Department of Chemistry, Graduate School of Science, Kyushu University, ⁴Risk Science Project Laboratory, Kyushu University)

P-147 Peptide selection against reactive small maolcular probes for protein imaging and opto-genetics by using the diverse screening system

Mizuki Yamamoto¹, Hiroki Suzuki¹, Tomohiro Iwabuchi¹, <u>Takashi Kawakami</u>^{1,2} (¹Department of Biotechnology, Faculty of Life and Environmental Sciences, University of Yamanashi, ²JST, PRESTO)

P-148 Effects of skipjack tuna-derived elastin peptide on ligament healing

<u>Eri Shiratsuchi</u>¹, Masaki Hirukawa², Masahiro Hasegawa³, Keiichi Miyamoto², Michio Yamada¹ (¹Research & Development division, Hayashikane Sangyo Co., Ltd., ²Department of Chemistry for Materials, Faculty of Engineering, Mie University, ³Graduate School of Medicine, Mie University)

P-149 NPR-15, one of the C. elegnas neuropeptide receptors, regulates larval development Kenjirou Matsushita, Tomohiro Bito, Takashi Iwasaki, Tsuyoshi Kawano (Graduate School of Sustainability Science, Tottori University)

P-150 Synthesis of sugar conjugated palladium or platinum complexes and their inhibitory abilities on the interaction of phosphorylated CUB domain-containing protein-1 with protein kinase c δ

<u>Akihiro Nomoto¹</u>, Nozomi Sakamoto¹, Ryuuichi Sakai², Hiromi Kataoka³, Shigenobu Yano⁴, Akiya Ogawa¹ (¹Graduate School of Engineering, Osaka Prefecture University, ²Division of Biochemistry, Kitasato University School of Medicine, ³Graduate School of Medical Sciences, Nagoya City University, ⁴KYOUSEI Science Center, Nara Women's University)

P-151 Structural analyses of a linker region of the amyloid precursor protein

<u>Mizuho Imamura</u>¹, Shingo Kanemura², Masaki Okumura², Shigeru Shimamoto¹, Yuji Hidaka¹ (¹Graduate School of Science and Engineering Research, Kindai University, ²Frontier Research Institute for Interdisciplinary Sciences, Tohoku University)

P-152 Regulation of disulfide-coupled folding of a de novo designed protein

<u>Saya Nishihara</u>, Kosuke Toyama, Kenta Mori , Shigeru Shimamoto, Yuji Hidaka (Graduate School of Science and Engineering Research, Kindai University)

P-153 Molecular evolution of L-PGDS: substrate recognittion mechanism of medaka L-PGDS

<u>Kimi Torii</u>¹, Takahiro Maruno², Yuji Kobayashi², Yuji Hidaka¹, Shigeru Shimamoto¹ (¹Graduate School of Science and Engineering Research, Kindai University, ²Graduate School of Engineering, Osaka University)

P-154 Development of a solid-phase assisted disulfide ligation for the synthesis of peptide-drug conjugates Kyohei Muguruma, Takuya Shirasaka, Daichi Akiyama, Akihiro Taguchi, Kentaro Takayama, Atsuhiko Taniguchi, Yoshio Hayashi (Department of Medicinal Chemistry, Tokyo University of Pharmacy and Life Sciences)

- P-155 Development of high resolution separation capillary column for peptides and proteins Hiroshi Kobayashi, Mayu Sukegawa, Hiroo Wada (Shinwa Chemical Industries, Ltd.)
- P-156 Assay development for the determination of residual solvents in peptide drugs by ion chromatography <u>Miki Ohno</u>, Ryosuke Yoshinaga, Hiromasa Sugiura, Yoshitaka Taniguchi (CMC Analysis Laboratory, Toray Research Center, Inc.)
- P-157 Site-selective dimerization of chymotrypsin using diphenyl phosphonate derivatives <u>Takahiro Hatakeyama</u>¹, Masato Koga¹, Takuya Kumakura¹, Takuma Hayakawa¹, Hirofumi Kuroda², Yoshikazu Horino³, Hiroshi Oyama⁴, Jun-ichi Sagara¹, Shin Ono¹ (¹Genome Biotechnology Laboratory,

Kanazawa Institute of Technology, ²Department of General Education, Ishikawa National College of Technology, ³Graduate School of Science and Engineering, University of Toyama, ⁴Faculty of Science and Engineering, Setsunan University)

P-158 Disulfide-coupled folding of pro-uroguanylin on molecular evolution

Kenta Mori, Kosuke Toyama, Saya Nishihara, Shigeru Shimamoto, Yuji Hidaka (Graduate School of Science and Engineering Research, Kindai University)

P-159 Proteomic and transcriptomic analyses of left ventricles in human dilated cardiomyopathy for identification of novel diagnostic biomarkers

<u>Mitsuhiro Nishigori</u>¹, Sayaka Muto¹, Osamu Seguchi², Norihide Fukushima², Yoshihiko Ikeda³, Hatsue Ishibashi-Ueda³, Naoto Minamino¹ (¹Omics Research Center, National Cerebral and Cardiovascular Center, ²Department of Transplantation, National Cerebral and Cardiovascular Center Hospital, ³Department of Pathology, National Cerebral and Cardiovascular Center Hospital)

P-160 Construction of modified skin sensitization assay systems using peptidyl microbeads

<u>Kenji Usui</u>¹, Hiroshi Miyazaki ², Yuuki Minamino ¹, Hideaki Mekata³, Masayuki Takaishi ³, Hidefumi Ikeda³, Kunihiko Yamashita, Yoshio Hamada (¹Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, ²Daicel Corp., ³Mandom Corp.)

P-161 Novel dual-pore bead and the ultrahigh-throughput for peptide purification

<u>Riichi Miyamoto</u>^{1,2}, Daming Gao², Naohiro Tomari³, Yoshihiro Yamamoto³, Takashi Ohtani⁴, Hong-zhi Bai¹, Kazuki Nakanishi² (¹SnG Inc., ²Graduate School of Science, Kyoto University, ³Kyoto Municipal Institute of Industrial Technology and Culture, ⁴Hamari Chemicals, Ltd.)