

Poster Presentations

Odd Number: 13:00 ~ 14:20 5th (Sat)

Even Number: 13:00 ~ 14:20 6th (Sun)

Session A: Application & Materials

- PA-01 **Theerasak Rojanarata, Samarwadee Plianwong, Thitirat Wongpitakroj, Praneet Opanasopit, Tanasait Ngawhirunpat**
Improved siRNA delivery at physiological pH by the use of chitosan combined with poly-L-arginine
- PA-02 **Praneet Opanasopit, Natthan Charernsriwilaiwat, Theerasak Rojanarata, Tanasait Ngawhirunpat**
Development of chitosan/polyvinyl alcohol nanofiber mats for wound dressing material
- PA-03 **Seiji Kurozumi, Kimihiko Sato**
Mass production of the chitinous oligosaccharide
- PA-04 **Y.-R. Chen, K.-C. Cheng, Y.-T. Hsu, M.-J. Chen and T.-H. Chuang**
NIPAAm/PEGMEA copolymer hydrogels with chitosan particles
- PA-05 **Hung-Ju Chou, Li-Chen Chen, Hui-Huang Chen and Shih-Bin Lin**
The enhancement of water solubility and antioxidative activities of chitosan hydrolysates by maillard reaction with various monosaccharides
- PA-06 **Tae Il Son, Kyoung Tai Park, Yun Heo, Hyung Jae Lee, Yoshihiro Ito**
Photo-immobilization of bioactive molecules by chitosan derivatives for drug delivery system in medical field
- PA-07 **Satoshi Tanimoto, Ayaka Satoh, Shohei Ida, Yoshitsugu Hirokawa**
Preparation of chitosan microparticles having inorganic shell via soft chemical process
- PA-08 **T. K. Lin, F. L. Mi, S. H. Yu, Y. C. Chen, W. Y. Chen, S. J. Wu**
Synthesis of magnetic chitosan-citrate gel beads as a novel magnetic adsorbent
- PA-09 **Nungruthai Kananont, Boonthida Kositsup, Rath Pichyangura, Supachitra Chadchawan**
The effects of chitosan and chitosan solvents on 'Pathumthani1' rice (*Oryza sativa* L.) 'Pathumthani1' seedlings
- PA-10 **Mitsumasa Osada, Takumi Yaegashi, Kazushi Kikuta, Kenichi Koseki, Yuko Nakagawa, Takashi Watanabe, Mitsuru Nikaido, Kazuhide Totani**
New method for β -chitin production from squid pens by high-temperature water treatment
- PA-11 **Keiko Shirai, Monserrat Lopez-Chavez, Miquel Gimeno, Alberto Tecante**
Listeria monocytogenes inhibition in fresh cheese by an active packaging of chitosan
- PA-12 **Kenichi Koseki, Yuko Sakamoto Nakagawa, Mitsumasa Osada, Takashi Watanabe, Mitsuru Nikaido, Kazuhide Totani**
Development of functional materials utilizing squid pens in Sanriku.

- PA-13 **Naohiro Kodama, Masanao Imai**
Attractive composite layered chitosan-calcium alginate membrane involved with utilized mechanical strength and mass transfer character
- PA-14 **Hidemi Hattori, Toshihiko Muto, Masayuki Ishihara**
Development of hemostatic using chitosan
- PA-15 **Thitirat Chaochai, Hirofumi Miyaji, Takashi Yoshida, Erika Nishida, Tetsuya Furuike, Hiroshi Tamura**
Preparation of chitosan/ gelatin based biomaterial
- PA-16 **Chih-Hao Huang, Wen-Yen Chiu**
Thermo-sensitive chitosan/poly(NIPAAm-co-NMA) composite nanofibers for adsorption of Cu(II) from aqueous solution
- PA-17 **Tze-Hao Derrick Khor, Ching-Hung Chen, Guo-Jane Tsai**
Antibacterial activity of chitosan and chitooligosaccharides against *Clostridium perfringens* and applicability of chitosan on the processing of pork sausage
- PA-18 **Yaowapha Waiprib, Pramkamol Pookaew, Pongtep Wilaipun, Anan Tongta, Nontawith Areechon, Masashi Maita**
Antibacterial properties of low molecular weight chitosan prepared from different sources with different range of molecular weight
- PA-19 **Kazuya Nakata, Akiko Ikuta, Hironori Izawa, Minoru Morimoto, Hiroyuki Saimoto, Shinsuke Ifuku**
Preparation of polysilsesquioxane films reinforced with chitin nanofibersK
- PA-20 **Jae-Woon Nah, Mi-Kyeong Jang**
Algicidal effect of water-soluble chitosan against harmful algal bloom
- PA-21 **Chien-Hui Wu, Jen-Hsin Peng, Guo-Jane Tsai**
Effects of levels and distribution of N-acetyl group in chitosan residue on antibacterial activity and enzymatic susceptibility of chitosan
- PA-22 **Yoshihko Omura, Toshikazu Yoneda, Shinsuke Ifuku, Hiroyuki Saimoto**
Method for replacing water in chitin nanofibers suspension with organic solvents
- PA-23 **Nana Suzuki, Akihiro Matsui, Hironori Izawa, Shinsuke Ifuku, Minoru Morimoto, Hiroyuki Saimoto**
Preparation of N-phthaloylated chitin nanofibers and its characterization

Session B: Biology & Medicine

- PB-01 **Kazunari Igawa, Ming-Fang Xie, Hideki Ohba, Yoshihiko Hayashi**
Nano-imaging analysis for the intracellular transportation of D-glucosamine using quantum dot
- PB-02 **Takeshi Ikeda, Kouhei Yamamoto, Yuu Yoshizawa, Kouji Sugimoto, Hidetaka Ishizaki, Sshizuka Yamada, Kajirou Yanagiguchi, Yoshihiko Hayashi**
Properties of chitosan scaffold for pulp tissue engineering

- PB-03 **Yoko Sawada, Atsushi Sugimoto, Kazuhiro Fukuda, Takako Kurosawa, Masao Ogawa, Tomohiro Osaki, Saburo Minami**
Ecdyson is active componets in *Ajuga decumbens* extract and has synergetic effect of oral administrated with glucosamine on cartilaginous injury.
- PB-04 **Kazuo Azuma, Tomohiro Osaki, Tomohiro Imagawa, Takeshi Tsuka, Shinsuke Ifuku, Hiroyuki Saimoto, Yoshiharu Okamoto, Saburo Minami**
A comparative study between α -chitin nanofibrils and β -chitin nanofibrils using an inflammatory bowel disease mouse model
- PB-05 **Akimasa Someya, Koji Sakamoto, Isao Nagaoka**
Glucosamine suppresses IL-8 expression through the *O*-N-acetylglucosamine modification of transcription factor Sp1 in synovial cells
- PB-06 **Kiyohiko Seki, Miyako Ishimaru, Aki Momoshima, Yuka Ohyama, Torao Suga, Toshihisa Ueda, Hiroaki Kodama, Masaru Mitsutomi**
Antimicrobial and antifungal activity of a hevein-like chitin binding peptide Ac-AMP from *Amaranthus caudatus*
- PB-07 **Vinh Nguyen, Masayuki Ishihara, Hidemi Hattori, Takemi Matsui**
Interaction of silver nanoparticles and chitin powder with various sizes and surface structures: The correlation with anti-microbial activities
- PB-08 **Mamoru Igarashi, Kaori Suzuki, Akimasa Someya, Koji Sakamoto, Isao Nagaoka**
Sirtuin 1 is a target gene of glucosamine in chondrocytes.
- PB-09 **Misa Ohno, Yuto Togashi, Kyoko Tsuda, Kazuaki Okawa, Minori Kamaya, Masayoshi Sakaguchi, Yasusato Sugahara, Fumitaka Oyama**
Quantitative PCR comparison of mRNA levels in human and mouse
- PB-10 **Sachie Masuda, Kazuo Azuma, Tomohiro Osaki, Tomohiro Imagawa, Takeshi Tsuka, Saburo Minami, Kimihiko Sato, Yoshiharu Okamoto**
Anti-tumor effects by oral administrations of oligosaccharide of chitin and chitosan in colon 26 bearing mouse model
- PB-11 **Makoto Anraku, Motoko Tanaka, Ayumu Hiraga, Daisuke Iohara, Yuji Maezaki, Kaneto Uekama, Kohei Nagumo, Hiroshi Watanabe, Toru Maruyama, Masaki Otagiri**
Effects of chitosan on oxidative stress and renoprotective potential in hemodialysis patients
- PB-12 **Yoshitaka Umezaki, Makoto Anraku, Hisao Tomida, Ayumu Hiraga, Daisuke Iohara, Nobuyuki Kobayashi, Masaki Otagiri, Kaneto Uekama, Fumitoshi Hirayama**
Preparation and functional properties of PEGylated chitosans with different molecular weights
- PB-13 **Hidemi Hattori**
Effect of blood aggregation and platelet activation by difference in molecular weight and degree of deacetylation of chitosan
- PB-14 **Takuya Kato, Misato Kakizaki, Tatsuo Shimizu, Sachie Nakatani, Kenji Kobata, Masahiro Wada**
Glucosamine promoted the mineralization of MC3T3-E1 cells by increasing the expression of Atf4
- PB-15 **Noriko Watanabe, Ryo Hasuda, Sachie Nakatani, Kenji Kobata, Masahiro Wada**
Effect of chondroitin sulfate on dermal fibroblasts.

- PB-16 **Misato Kakizaki, Ai Arai, Sachie Nakatani, Kenji Kobata, Masahiro Wada**
Effects of chondroitin sulfate on the proliferation and differentiation of chondrocyte precursors
- PB-17 **Sidhy Viha CV, Deepthi Sankar, Furuike Tetsuya, Tamura Hiroshi, Jayakumar Rangasamy**
Fabrication of chitin/poly(butylene succinate)/chondroitin sulphate nanoparticles ternary composite hydrogel scaffold for skin tissue engineering
- PB-18 **Shu-Huei Yu, Yi-Cheng Ho, Deh-Wei Tang, Fwu-Long Mi, Shi-Tan Chen**
Preparation of chitosan/hyaluronic acid self-assembled nanoparticles for targeted delivery of acriflavine to HT-29 colon carcinoma cells
- PB-19 **Fwu-Long Mi, Trong-Ming Don, Yu-Ru Su, Shu-Huei Yu, Deh-Wei Tang, An-Chong Chao**
Intracellular hydrogen peroxide generation by chitosan-based bio-reducible nanoparticles
- PB-20 **Panonnummal Rajitha, Rangasami Jayakumar, Mangalathillam Sabitha**
Skin permeating chitin nanogel for the cutaneous delivery of antipsoriatic drugs
- PB-21 **Yi-Cheng Ho, Shu-Huei Yu, Deh-Wei Tang, Fwu-Long Mi, Kun-Ying Lu**
Evaluation of permeability enhancement of hydrophilic macromolecules by chitosan and poly(γ -glutamic acid)(γ -PGA)/poly(Itaconic acid) complex nanoparticles
- PB-22 **Keiko Shirai, Itzel Corona, Miquel Gimeno, Alberto Lopez, Nadia Vazquez, Lenin Tamay De Dios, Maria Cristina Velasquillo**
Synthesis, characterization of chitosan-co-citric-collagen and evaluation as human fibroblast scaffolds.
- PB-23 **Tatsuki Kaneko, Satohsi Kimura, Masahisa Wada**
Ultrastructure of α -chitin ejection vesicle in *Phaeocystis*
- PB-24 **Guo-Jane Tsai**
Antioxidative and antimutagenic activities of chitosans with various molecular weights
- PB-25 **Shun-Hsien Chang, Guo-Jane Tsai**
Factors Affect the Antibacterial Activities of Chitosans with Various Molecular Weight
- PB-26 **Keiji Kan**
Therapeutic effect of a chitin oligosaccharide mixture on early stage human cancer by *per os* administration.
- PB-27 **Sukhumaporn Seang-ngam, Kampon Limruengroj, Supachitra Chadchawan, Teerapong Buaboocha**
Chitosan potentially induce drought resistance in rice via calmodulin
- PB-28 **Kazuo Azuma, Shiori Suguro, Yoshie Yamagishi, Masamichi Yamashita, Tomohiro Osaki, Takeshi Tsuka, Tomohiro Imagawa, Ichiro Arifuku, Yoshiharu Okamoto**
Pharmacokinetic study of D-glucosamine hydrochloride produced from *microbes* and N-acetyl-D-glucosamine synthesized from D-glucosamine hydrochloride after oral administrations to dogs

- PB-29 **Yoshihiko Hayashi, Kazunari Igawa, Atsushi Kawakubo, Naoko Ohara**
Protection of cell membrane by D-glucosamine in electroporation
- PB-30 **Ikuko Ito, Toshikazu Yoneda, Yoshihiko Omura, Tomohiro Osaki, Shinsuke Ifuku, Hiroyuki saimoto, Kazuo Azuma, Tomohiro Imagawa, Tsuka Takeshi, Yoshihiro Okamoto, Saburo Minami**
UV-protective effects of chitin nanofibers fibrillated by urocanic acid
- PB-31 **Masahiro Nishihara, Tomohiro Osaki, Yoshiki Itoh, Haruki Shimizu, Osamu Takashima, Hironori Izawa, Minoru Morimoto, Shinsuke Ifuku, Hiroyuki Saimoto, Kazuo Azuma, Tomohiro Imagawa, Takeshi Tsuka, Yoshiharu Okamoto, Saburo Minami**
Development of biological adhesive agents by using chitin nanofibers
- PB-32 **Dai-Hung Ngo, Se-Kwon Kim**
Protective effects of aminoethyl-chitooligosaccharides against oxidative stress and inflammation in murine microglial cells
- PB-33 **Seiji Kurozumi**
Studies on Development for forming Chitinous Sponge appeared hemostatic properties
- PB-34 **Takashi Akiyama, Sachie Nakatani, Kenji Kobata, Masahiro Wada**
Effects of two kinds of non-digestible carbohydrates on energy metabolism in mice
- PB-35 **Karolina Maria Nowak, Kazimiera Henryka Bodek**
Formulations based on microcrystalline chitosan as a good drug carrier designed to use in alveolar osteitis

Session C: Chemistry & Physics

- PC-01 **Yuji Kimura**
Removal of bisphenol A and its derivatives by chitosan beads through enzymatic quinone oxidation
- PC-02 **Kosuke Sakai**
Removal of bisphenol A and its derivatives by combined use of free or immobilized polyphenol oxidase and porous chitosan beads
- PC-03 **Ryohei Tsuji**
Removal of bisphenol compounds through quinone oxidation by *Aspergillus oryzae* tyrosinase and quinone adsorption on porous chitosan beads
- PC-04 **Chia-Chu Cheng, Fwu-Long Mi, Trong-Ming Don**
Synthesis and Characterization of Chitosan membrane Selectively Crosslinked by Poly(ethylene glycol) Dimethacrylate
- PC-05 **Naoko Takeda, Jun-ichi Tamura**
Synthesis of keratan sulfate oligosaccharide
- PC-06 **Kanako Saita, Shoji Nagaoka, Tetsuya Yamamoto, Kazuhiko Okuzono, Takamasa Ishibashi, Hirotaka Ihara**
Preparation of high dispersion chitosan particles with antibacterial activity and the application to oral health care materials

- PC-07 **Pornnipa Jongmesuk**
Surface modified mucoadhesive chitosan coated alginate beads by 4-carboxy benzene sulfonamide for puerarin delivery system
- PC-08 **Tawrong Chivangkul**
Water-soluble mucoadhesive N-trimethyl-gluconate-chitosan as an alternative mucoadhesive polymer for drug delivery
- PC-09 **Takashi Kuroiwa, Hideaki Takada, Isao Kobayashi, Kunihiro Uemura, Akihiko Kanazawa**
Preparation of uniformly sized chitosan microspheres by using microchannel emulsification and cross-linking treatment and their adsorption properties for dye separation
- PC-10 **Kentaro Abe, Shinsuke Ifuku, Mari Kawata and Hiroyuki Yano**
Preparation of tough hydrogels based on β -chitin nanofibers via NaOH treatment
- PC-11 **K, Omi, T, Furuike, T, Kimura and H, Tamura**
Adsorption and desorption behaviors of sodium guaiazulene sulfonate on cross-linked chitosan sponge
- PC-12 **Yoshiki Ito, Haruki Shimizu, Masahiro Nishihara, Osamu Takashima, Hironori Izawa, Shinsuke Ifuku, Minoru Morimoto, Tomohiro Osaki, Yoshiharu Okamoto, Saburo Minami, Hiroyuki Saimoto**
Development of tissue adhesive using carboxymethyl chitin derivatives
- PC-13 **Chisato Matsumoto, Masahiro Wada, Shinsuke Ifuku, Hironori Izawa, Minoru Morimoto, Hiroyuki Saimoto**
Preparation of highly regioselective chitosan derivatives via “click chemistry”
- PC-14 **Thanh-Sang Vo, Se-Kwon Kim**
Protective effect of chitin oligosaccharides against lipopolysaccharide-induced inflammatory response in BV-2 microglia
- PC-15 **Mustafa Zafer Karagozlu, Fatih Karadeniz**
Anti-HIV activity of Novel Synthetic Tri-peptide Conjugated Chitosan Oligosaccharides
- PC-16 **Ratana Rujiravanit, Seiichi Tokura, Kumiko Nishizawa, Fuji Kodera and Yasumitsu Uraki**
Preparation of Variously Solvated Chitins from Ethanol Solvated Chitin

Session E: Enzymology

- PE-01 **Norie Sonoda**
Analysis of genes coding for chitinolytic enzymes in the bacterium, *Chitiniphilus shinanonensis* — Development of gene disruption by an allelic exchange system —
- PE-02 **Moe Nakano**
Analysis of genes coding for chitinolytic enzymes in the bacterium, *Chitiniphilus Shinanonensis* — *chiG*, *chiJ*, and *chiK* coding for unique chitin-degrading enzymes —

- PE-03 **Satoru Nirasawa, Saori Takahashi**
Characterization of the cellobiose 2-epimerase from the D-aspartic acid specific endopeptidase-producing bacteria, *Paenibacillus* sp. B38
- PE-04 **Wataru Tsukimura, Keisuke Saito, Fumiya Uni, Leilei Zhu, Norihiko Ito, Rie Yatsunami, Toshiaki Fukui, Ulrich Schwaneberg, Satoshi Nakamura**
Improvement of specific activity of GH family 18 chitinase from alkaliphilic *Bacillus* sp. J813 by directed evolution
- PE-05 **Katsushiro Miyamoto, Maya Hasegawa, Ryoko Inada, Kenta Kitamura, Yutaka Yamamoto, Takahiro Tsuchiya, Hiroshi Tsujibo**
Analysis of the novel proteins involved in the chitinolytic system of *Pseudoalteromonas piscicida* strain O-7
- PE-06 **Ippei Kuwata, Seiko Muraoka, Takeshi Seguchi, Hiromasa Inoue, Hirotoshi Endo, Michio Suzuki, Hiromichi Nagasawa, Shohei Sakuda**
Studies on the target molecules of allosamidins in their anti-asthmatic activity
- PE-07 **Kinuka Toyama, Koichi Sakagami, Zhang Yang, An Ran, Motoaki Sato, Keita Orishimo, Yoshinobu Hatori, Rie Yatsunami, Tomonori Takashina, Toshiaki Fukui, Satoshi Nakamura**
Characterization of a haloarchaeal chitinase: Effect of aspartates, glutamates and lysines on its protein surface
- PE-08 **Shotaro Honda, Yasusato Sugahara, Fumitaka Oyama, Masayoshi Sakaguchi**
Expression in *Escherichia coli* and characterization of two chitinases from *Listeria innocua*
- PE-09 **Takeshi Shioyama**
Cloning and heterologous expression of chitinase gene from the *Eisenia fetida*.
- PE-10 **Keiko Kawasaki**
Cloning of CMCase from *Bellamyia chinensis laeta*.
- PE-11 **Tamotsu Kanai, Naoya Takahashi, Ayumi Horiuchi, Haruyuki Atomi**
Genetic engineering of the chitin-degradation pathway of the hyperthermophilic archaeon, *Thermococcus kodakarensis*
- PE-12 **Kazuaki Okawa, Akinori Kashimura, Kotarou Ishikawa, Yuta Kida, Kokoro Iwabuchi, Yudai Matsushima, Masayoshi Sakaguchi, Yasusato Sugahara, Fumitaka Oyama**
Expression of mouse acidic mammalian chitinase in the periplasmic space fraction of *Escherichia coli*
- PE-13 **Akinori Kashimura, Kazuaki Okawa, Kotarou Ishikawa, Yuta Kida, Kokoro Iwabuchi, Yudai Matsushima, Masayoshi Sakaguchi, Yasusato Sugahara, Fumitaka Oyama**
Characterization of *Escherichia coli*-expressed mouse acidic mammalian chitinase
- PE-14 **Kotarou Ishikawa, Akinori Kashimura, Kazuaki Okawa, Yuta Kida, Kokoro Iwabuchi, Yudai Matsushima, Masayoshi Sakaguchi, Yasusato Sugahara, Fumitaka Oyama**
Mouse acidic mammalian chitinase expressed in *Escherichia coli* possesses chitinase functions comparable to CHO-expressed protein

- PE-15 **Hayuki Sugimoto, Keita Nakamura, Yuji Nishino, Akiko Fujinuma, Hiroki Watanabe, Takayuki Uchihashi, Toshio Ando, Kiyohiko Igarashi, Masahisa Wada, Masahiro Samejima, Kazushi Suzuki, Takeshi Watanabe**
Studies on mechanism of crystalline chitin hydrolysis by *Serratia marcescens* chitinase B using high-speed atomic force microscopy
- PE-16 **Hiroaki Fukuhara, Akihiro Ito, Takao Arimori, Masami Nakazawa, Tatsuji Sakamoto, Shinichi Akazawa, Taro Tamada, Kuniyo Inouye, Mitsuhiro Ueda**
Cloning and expression of endo-1,4-beta-glucanase from *Eisenia fetida*
- PE-17 **Naoyuki Umemoto, Yuka Kanda, Takayuki Ohnuma, Tomoyuki Numata, Toki Taira, Tamo Fukamizo**
Structure and Function of a class V chitinase with high transglycosylation activity from cycad, *Cycas revoluta*.
- PE-18 **Yuya Kawaguchi, Kazunari Yoneda, Tomohiro Araki**
Comparison of the amino acids with carboxylic group on the catalytic site of c, g, and i- type of lysozymes
- PE-19 **Shoko Takenaka, Katsuaki Hirano, Kiyohiko Seki, Masaru Mitsutomi, Takayuki Ohnuma, Tamo Fukamizo**
Interaction of partially *N*-acetylated chitooligosaccharides with a family GH 19 chitinase from moss *Bryum coronatum*
- PE-20 **Teruhisa Suzuki, Hiromi Kakizaki, Mana Ikeda, Masahiro Matsumiya**
Molecular cloning of a novel chitinase gene from the stomach of the blue shark *Prionace glauca* (Chondrichthyes)
- PE-21 **Naoya Fujitani, Hirotaka Hasegawa, Hiromi Kakizaki, Mana Ikeda, Masahiro Matsumiya**
Molecular cloning of multiple chitinase genes in swimming crab *Portunus trituberculatus*
- PE-22 **Mana Ikeda, Daisuke Shirase, Takuya Sato, Mika Ueda, Shinichi Hirabayashi, Masahiro Matsumiya**
Primary structure and enzymatic properties of chitinase isozymes purified from the stomach of the Marbled rockfish *Sebastes marmoratus*
- PE-23 **Hiromi Kakizaki, Kaneyuki Hamaguchi, Mana Ikeda, Masahiro Matsumiya**
cDNA cloning of a novel chitinase from the stomach of Coelacanth *Latimeria chalumnae* (Sarcopterygii)
- PE-24 **Tomohiro Ogino, Hirotaka Tabata, Mana Ikeda, Masahiro Matsumiya**
Purification and characterization of a chitinase from the salivary gland of the common octopus *Octopus vulgaris*
- PE-25 **Ryo Nishino, Akiyoshi Suyama, Mana Ikeda, Hiromi Kakizaki, Masahiro Matsumiya**
Purification, characterization, and cDNA cloning of a chitinase from the liver of Golden cuttlefish *Sepia esculenta*
- PE-26 **Shoko Shinya, Takayuki Ohnuma, Reina Yamashiro, Padmanabhan Anbazhagan, André Juffer, Hisashi Kimoto, Hideo Kusaoke, Tamo Fukamizo**
Binding mode of chitosan oligosaccharides to novel chitosan-specific carbohydrate-binding modules (CBM32) of a chitosanase from *Paenibacillus* sp. IK-5

- PE-27 **Kaori Kondo, Naoyuki Umemoto, Takayuki Ohnuma, Tomoyuki Numata, Tamo Fukamizo**
Complete subsite mapping of a “loopful” GH19 chitinase from rye seeds based on the crystal structure
- PE-28 **Noboru Fujinami, Mana Ikeda, Kouji Miyauchi, Masahiro Matsumiya**
Purification and characterization of lysozyme from Black lined limpet *Cellana nigrolineata*
- PE-29 **Tomoyo Nishihira, Takayuki Ohnuma, Ken Tokuyasu, Makoto Ogata, Taichi Usui, Tamo Fukamizo**
A novel chitosanase inhibitor derived from 4-O- β -tri-N-acetylchitotriosyl moranoline
- PE-30 **Yuta Nakagawa, Ryo Ogita, Takashi Kuroiwa, Akihiko Kanazawa**
Immobilization and stabilization of chitosanase using a magnetic composite gel consisting of agar and magnetite nanoparticles
- PE-31 **Yusuke Yamanouchi**
Cloning and expression of alpha-amylase from *Eisenia fetida*
- PE-32 **Yoshihito Kitaoku, Takayuki Ohnuma, Toki Taira, Tamo Fukamizo**
A family GH 18 chitinase containing LysM domain from *Equisetum arvense*: role of LysM domain in the enzymatic activity
- PE-33 **Kazushi Suzuki, Naomi Sasaki, Chisana Ogawa, Mari Shimizu, Shinya Takano, Hayuki Sugimoto, Takeshi Watanabe**
Regulation of chitin degradation and utilization system by ChiX small RNA in *Serratia marcescens*
- PE-34 **Paknisa Sirimontree, Wipa Suginta**
Inhibitory effects of sodium derivatives on the hydrolytic activity of family-18 chitinase A and family-20 β -N-acetyl-glucosaminidase from *Vibrio harveyi*
- PE-35 **Jeng-Ywan Shih, Jeen-Kuan Chen, Yu-Sheng Hsieh, Chia-Rui Shen, Chao-Lin Liu**
Chitinasome Analysis with Cover-staining Assay
- PE-36 **Akihiro Saito, Masayo Tomita, Ayami Kikuchi, Mariko Kobayashi, Masashi Yamaguchi, Shinsuke Ifuku, Akikazu Ando**
Characterization of antifungal activity of the GH-46 subclass III chitosanase from *Bacillus circulans* MH-K1
- PE-37 **Miquel Gimeno**
Enzymatic grafting of gallate ester onto chitosan: evaluation of antioxidant and antibacterial activities

*Titles and authors listed in this program are basically based on online application information.