

Oral Presentations

5th (Sat)

	Hall A	Hall B
9:00	S-01 Seiichi Tokura Brief display of chitin and chitosan studies in Japan	
9:40	S-02 Rong Chen Facile method to manipulate the molecular weight of chitosan, practical mass production by mechanical methods and using the degraded product as a bioactive compound	
10:20	Coffee Break	
10:40	IE-01 Takeshi Watanabe, Hayuki Sugimoto, kazushi Suzuki Chitin degradation and utilization system of <i>Serratia marcescens</i> 2170	S-03 Tadashi Uragami Chitosan membranes contributing to the field of resources, energy, environment and medical treatment
11:00	OB-02 Hiraku Onishi Comparison of in vivo pharmacokinetic behaviors between chitosan-succinyl-prednisolone conjugate microparticles and their enteric-coated microparticles	
11:20	IE-03 Hideo Kusaoke Structural and functional properties of chitosanase and chitinases from <i>Paenibacillus</i> sp. IK-5	IA-01 Hiroshi Tamura, Tetsuya Furuike New type of graft polymer using chitosan hydrogel by means of Atom Transfer Radical Polymerization
11:40	IE-04 Wipa Suginta Chitooligosaccharide uptake through chitoporin: An evolutionary adaptation of marine bacteria to thrive under nutrient depleted conditions	IA-02 Xiaowen Shi, Yumin Du, Gregory Payne Conferring structure and function to chitosan hydrogel using electrical signals
12:00	Lunch	
13:00	Poster Presentations (Odd Number)	
14:20	IE-05 Tamo Fukamizo Plant family GH19 chitinases: Crystal structures of the enzyme-substrate complexes	IA-03 Carla Marcella Caramella Chitosan-based enabling formulations for the treatment of epithelial and skin lesions
14:40	IE-06 Makoto Shimosaka Isolation and characterization of genes encoding chitin-degrading enzymes in the novel chitinolytic bacterium, <i>Chitiniphilus shinanonensis</i>	IA-04 Sevda Senel Chitosan based nanodelivery systems: possibilities and challenges
15:00	IE-07 Keiko Shirai Utilization of enzymes and microorganisms for production of chitin and chitosan: biotechnological approach	IA-05 San-Lang Wang Utilization of chitinous materials in pigments adsorption
15:20	IE-08 Toki Taira Classes of plant chitinases and their roles in plant defense response against fungal pathogens	IA-06 Andreas Heppe BioLog at twenty years The rocky road to industrial utilization of chitosan

15:40	IE-09 Masaru Mitsutomi Enzymatic preparation of hetero-chitooligosaccharides	IA-07 Wanpen Tachaboonyakiat, Ekkachai Sukpaiboon, Tirut Morkaew, Onruthai Pinyakong Preparation of quaternary ammonium chitin derivatives for antibacterial property and wound dressing application
16:00	Coffee Break	
16:20	IE-10 Takako Hirano, Kanako Sugiyama, Yuta Sakaki, Yuya Maebara, Rie Uehara, Haruka Shiraishi, Sena Ichimura, Wataru Hakamata, Sam-Yong Park, Toshiyuki Nishio Chitin oligosaccharide deacetylase, one of the important enzymes in chitin degradation system of some Vibrios	OC-01 Shino Manabe, Yukishige Ito Synthesis of α -glycosamine oligomer from β -glucosamine oligomer by endocyclic cleavage reaction
16:40	IE-11 Se-Kwon Kim Enzymatic production and bioactive effects of different molecular weight chitooligosaccharides obtained by dual reactor system	OC-02 Nidhi Nigam, Santosh Kumar, Tamal Ghosh, Pradip Kumar Dutta Birefringence, anion sensing and antibacterial ability of chitosan-azo Schiff bases : A systematic study for optical devices
17:00	OA-01 Zdravka Lazarova ChitoClean: Enhanced chitin-based biosorbents for drinking water purification	OC-03 Hironori Izawa, Yuki Daimon, Kohsaku Kawakami, Hideki Sakai, Masahiko Abe, Jonathan Hill, Katsuhiko Ariga Formation of supramolecular aggregates composed of β -cyclodextrin-grafted chitosan and insulin
17:20	OA-02 Pantipa Koraviyotin Mucoadhesive property of graphene oxide modified with quaternized thiolated chitosan for biomedical application	OC-04 Yu Ogawa, Yoshiharu Nishiyama, Satoshi Kimura, Masahisa Wada and Karim Mazeau X-ray diffraction analysis and theoretical calculations of thermal and mechanical properties of chitin
17:40	OA-03 Md. Iftekhar Shams, Hiroyuki Yano Fabrication of optically transparent composites reinforced with nanochitin and nanostructured chitin	OC-05 Yasusato Sugahara Preparation of chitin oligomers by hydrolysis with concentrated hydrochloric acid

6th (Sun)

	Hall A	Hall B
9:00	S-04 Martin G. Peter Biological activities of chitooligosaccharides: Correlation of structure and function	S-05 Hiroyuki Yano Green-nanomaterials for Sustainable Society
9:40	IB-01 Isao Nagaoka, Mamoru Igarashi, Akimasa Someya, Koji Sakamoto Current aspects of the chondroprotective and anti-inflammatory actions of a chitosan monomer glucosamine	IA-08 Shinsuke Ifuku, Akiko Ikuta, Mayumi Egusa, Hironori Kaminaka, Hironori Izawa, Minoru Morimoto, Hiroyuki Saimoto Preparation of high-strength transparent film reinforced with surface-deacetylated chitin nanofibers

10:00	IB-02 Sachie Nakatani, Kenji Kobata, Hiroto Nakajima, Yoshifumi Kimira, Hiroshi Mano, Fumihito Sugihara, Masahiro Wada Identification of the cartilage maintenance gene induced by supplementation of glucosamine or collagen hydrolysate	IB-10 Tomohiro Osaki, Ikuko Ito, Shinsuke Ifuku, Hiroyuki Saimoto, Kou Tokuda, Takashi Asami, Kazuo Azuma, Tomohiro Imagawa, Takeshi Tsuka, Yoshiharu Okamoto, Saburo Minami Biological effect of chitin nanofibers and its future expectation
10:20	IB-03 Hiroshi Nakamura, Kenji Takahashi The present status of glucosamine use for osteoarthritis in the medical world and its scientific rationale	IB-11 Kazuo Azuma, Tomohiro Osaki, Tomohiro Imagawa, Takeshi Tsuka, Shinsuke Ifuku, Hiruyuki Saimoto, Yoshiharu Okamoto, Saburo Minami Evaluation of oral administration of chitin nanofibrils for experimental inflammatory bowel disease model
10:40	Coffee Break	
11:00	IB-04 Toru Okano, Makoto Enokida, Yoshimori Takamori Effect of glucosamine hydrochloride on cartilage and bone metabolism marker in elderly patients	OA-10(PA-15) Thitirat Chaochai, Hirofumi Miyaji, Takashi Yoshida, Erika Nishida, Tetsuya Furuike, Hiroshi Tamura Preparation of chitosan / gelatin based biomaterial
11:20	IB-05 Shohei Sakuda Novel biological activities of allosamidins	OA-04 Darunee Sae-tae Preparation and characterization of PLA/HBCS nanofibers containing estradiol and permeation studies
11:40	IB-06 Chong-Su Cho, Bijay Singh, Hu-Lin Jiang, Myung-Haing Cho, Yun-Jaie Choi Modification of chitosan with pH-sensitive molecules and specific ligands to deliver DNA or siRNA	OA-05 Palida Srisornkompon, Rath Pichyangura, Supachitra Chadchawan Chitosan increased phenolic compound contents in tea (<i>Camellia sinensis</i>)leaves by pre- and post-treatments
12:00	Lunch	
13:00	Poster Presentations (Even Number)	
14:20	IB-07 Joel D Bumgardner, J. Amber Jennings, Warren O. Haggard Chitosan implant coatings for dental/craniofacial and orthopedic applications	IC-01 Malgorzata M. Jaworska Ionic liquids, a gate to new chemistry of chitin and chitosan
14:40	IB-08 Chun Geun Lee, Jack Elias Chitin, chitinase and chitinase-like proteins in allergic inflammation and tissue remodeling	IC-02 Masahisa Wada, Yu Ogawa, Kayoko Kobayashi, Daisuke Sawada Crystal structure and crystalline phase transition of chitin
15:00	IB-09 Mangalathillam Sabitha Chitin Nanogels in Transdermal and Corneal Drug Delivery	IC-03 Yoshiharu Nishiyama Structural details of chitin from high resolution X-ray and neutron fiber diffraction
15:20	OC-06 Yukie Saito, Valeriy Luchnikov, Ayano Inaba and Katsuhito Tamura Self-scrolling chitosan film produced by graded-acetylation	IC-04 Yuko Yoneda, Shingo Kawai, Toshinari Kawada Chemical synthesis of chito-hetero-oligosaccharides: Two ways de-protective system
15:40	OC-07 Dong Woog Lee, Chanoong Lim, Jacob N. Israelachvili and Dong Soo Hwang Strong adhesion and cohesion of chitosan in aqueous solutions	IC-05 Tatsuya Nishimura, Takashi Kato Development of organic/inorganic hybrids by using macromolecular templates

16:00	Coffee Break	
16:20	OC-08 Muhammad Jawwad Saif Cross-linked chitosan Cu(I) complexes as a versatile recyclable catalyst for <i>N</i> -arylation reactions	OB-01 Akio Sugitachi, Kohei Kume, Satoshi Nishizuka, Go Wakabayashi, Yoshimori Takamori, Minoru Fukuda, Masayuki Takamatsu, Hiroko Nakashima, Yoshiko Sato, Megumi Sakamoto, Eiko Photodynamic diagnosis and therapy with chitosan and aminolevulinic acid
16:40	OC-09 Sung Ho Yang, Beom Jin Kim, Insung S. Choi Degradable coating of individual living yeast cells through layer-by-layer method with chitosan and poly-L-glutamic acid	IE-02 Masahiro Matsumiya, Mana Ikeda Fish stomach chitinases: Presence of the isozyme groups and enzymatic properties of those
17:00	OC-10 Thang Vo, V. Varlamov, Cheng-Kang Lee Hydrophobically modified chitosan for the preparation of highly stable gas-filled microbubbles	OB-03 Fumitaka Oyama, Misa Ohno, Kyoko Tsuda, Masayoshi Sakaguchi, Yasusato Sugahara Quantification of chitinase mRNA levels in mouse tissues by real-time PCR: acidic mammalian chitinase is a major transcript in the mouse stomach
17:20	OC-11 Zi-Dong Qi, Yimin Fan, Tsuguyuki Saito, Akira Isogai Improvements in the preparation of 3-nm-wide α -chitin nanofibrils	OB-04 Yu-Ru Su, Deh-Wei Tang, Yi-Cheng Ho, Fwu-Long Mi, Yi-Cin Cai, An-Chong Chao Resveratrol-incorporated chitosan/zein nanoparticles for antioxidant purpose
17:40	Canceled	OB-05 Annapoorna Mohandas, Basan Gowdakurkalli, Jayakumar Rangaswamy Development of nanocurcumin incorporated chitosan hydrogel scaffolds for therapeutic application on ischemic wound

7th (Mon)

	Hall A	Hall B
9:00	S-06 Kjell M. Varum Chitosan - A family of polycations with properties that can be tailored for specific applications	
9:40	OB-06 Siswa Setyahadi Continuous process on microbial chitin extraction	OE-01 Yuko Nakagawa, Madoka Kudo, Vincent Eijsink, Kazuhide Totani, Gustav Vaaje-Kolstad AA10-type (auxiliary activity family 10) proteins from <i>Streptomyces griseus</i> accelerated enzymatic chitin degradation
10:00	OB-07 Titik Ismiyati Antifungal of acrylic resin denture base plate incorporate with nano particle high-density chitosan	OE-02 Mitsuhiro Ueda Structural and functional analysis of a novel family GH-23 chitinase from thermophilic bacterium <i>ralstonia</i> sp. A-471
10:20	OB-08 Jayachandran Venkatesan, Se-Kwon Kim Biocomposite containing chitosan for bone tissue engineering	OE-03 Nghia Ngo Dang, Duong Ngo Thi Hoai Study on kinetics and optimization of the deproteinization by pepsin in chitin extraction from white shrimp shell

10:40		OE-04 Takayuki Ohnuma, Satoshi Dozen, Yuji Honda, Motomitsu Kitaoka, Tamo Fukamizo A glycosynthase derived from a 'loopful' family GH19 chitinase from <i>Secale cereal</i>. Chemo-enzymatic synthesis of chitoheptaose
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8th (Tue)

	Hall A	Hall B
9:00		OA-06 Y. Morimoto, S. Osawa Development of high performance adsorbent using chitosan nano-fiber
9:20		OA-07 Ryuhei Nomoto, Masanao Imai A novel approach to form water-stable chitosan membrane focused on acid-base neutralization process of membrane casting solution for application to sensitive molecular size recognition and water permeability
9:40		OA-08 Ajoy Dutta, Hironori Izawa, Minoru Morimoto, Hiroyuki Saimoto, Shinsuke Ifuku Preparation of chitin and chitosan nanofibers from dry chitin and chitosan powder by using star burst system
10:00		OA-09 Kanyarat Saekhor, Wanpen Tachaboonyakiat Synthesis of water soluble chitosan-g-α-cyclodextrin with an approach for oil trapment
10:20		S-07 Saburo Minami, Yoshiharu Okamoto, Yoshihiro Shigemasa, Hiroyuki Saimoto, Tomohiro Osaki, Kazuo Azuma, Seiichi Tokura A recapitulation on 25 years researches on chitin bio-active and bio-protective effects
11:00		IA10 Rangasamy Jayakumar Chitin-Multiple applications in nanomedicine

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