

## Oral Presentations

**28th (Tue)**

		<b>Room C (4301)</b>		
9:20	SP-01	<p><b>Seiichi Tokura</b> (<i>Hokkaido University, Japan</i>) Incentive Progresses on the Research of Chitin/Chitosan in ICCC from 1st ICCC</p>		
9:50	Coffee Break			
		<b>Room A (4201)</b>	<b>Room B (4202)</b>	
10:10	PL-01	<p><b>Bruno M. Moerschbacher</b> (<i>University of Münster, Germany</i>) Patterns matter - enzymatic control of the patterns of acetylation in chitans</p>	PL-02	<p><b>Tamo Fukamizo</b> (<i>Suranaree University of Technology, Thailand</i>) Chito oligosaccharide-binding protein localized in the periplasm of the marine bacterium <i>Vibrio harveyi</i></p>
	KN-01	<p><b>Mengyao Zhao</b> (<i>East China University of Science and Technology, China</i>) Advance of Oligosaccharides of Chitin and Chitosan: Bio-manufacture and Application</p>	KN-02	<p><b>Akihiro Saito</b> (<i>Shizuoka Institute of Science and Technology, Japan</i>) Induction of chitinase production and transporters for N,N'-diacetylchitobiose in <i>Streptomyces coelicolor</i> A3(2)</p>
	OA-01	<p><b>Kimihiko Sato</b> (<i>Koyo Chemical Co.,Ltd., Japan</i>) Examination of hydrolysis condition of chitin and product development</p>	OE-01	<p><b>Fumitaka Oyama</b> (<i>Kogakuin University, Japan</i>) Acidic mammalian chitinase is a major chitinase in stomach resistant to pepsin and trypsin/chymotrypsin digestion</p>
	OA-02	<p><b>Yadira Gonzalez-Espinosa</b> (<i>University of Leeds, UK</i>) Characterisation of chitosan molecular weight distribution by multidetection asymmetric flow-field flow fractionation and SEC-HPLC</p>	OE-02	<p><b>Siswa Setyahadi</b> (<i>Agency for the Assessment and Application of Technology, Indonesia</i>) Producing N-acetylglucosamine from chitin using chitinase</p>
	OA-03	<p><b>Eva Katharina Regel</b> (<i>University of Münster, Germany</i>) Protein-engineering of chitosanase from <i>Bacillus</i> sp. MN to produce novel bioactive chitosan oligomers</p>	OE-03	<p><b>Keyur Raval</b> (<i>National Institute of Technology Karnataka, India</i>) Screening of chitin deacetylase producing microbes from marine source using a novel receptor on agar plate</p>
	OC-01	<p><b>Lea Hembach</b> (<i>University of Münster, Germany</i>) Chitin deacetylases acting in forward and reverse to produce well-defined partially acetylated chitosan oligomers</p>	OE-04	<p><b>Takako Hirano</b> (<i>Nihon University, Japan</i>) Enzymological comparison of chitin oligosaccharide deacetylases from <i>Shewanella</i> and <i>Vibrio</i> bacteria</p>

	OA-04	<b>Parton Lun Wang</b> (Shanghai JBICHEM Int'l Trading Co., Ltd., China) JBiChem International, the leading manufacturer of Glucosamine	OE-05	<b>Keyur Raval</b> (National Institute of Technology Karnataka, India) Sustainable bioprocess development and optimization for chitin deacetylase production
12:00	Group Photo			
12:10	Lunch			
13:10	Poster Presentations (Odd number, <b>Room C (4301)</b> )			
14:40	PL-03	<b>Francisco M. Goycoolea</b> (University of Leeds, UK) Chitosan-based nanosystems to tackle antimicrobial resistance	PL-04	<b>Carla Marcella Caramella</b> (University of Pavia, Italy) Chitosan and derivatives in biomedical applications. Balancing innovation and regulatory considerations
	KN-03	<b>Ratana Rujiravanit</b> (Chulalongkorn University, Thailand) Evaluation of the combined effect of gold nanoparticles and low-molecular-weight carboxymethyl chitosan on their cytotoxicity against cancer cell lines	KN-04	<b>Shohei Sakuda</b> (Teikyo University, Japan) Recent advances in allosamidin research
	OA-05	<b>Yukun Qin</b> (Chinese Academy of Sciences, China) Synthesis of chitosan dithiocarbamates derivatives with enhanced antifungal activities against plant-parasitic fungi	KN-05	<b>Hyun Jin Park</b> (Korea University, Korea) Nano delivery system in food and functional food
	OA-06	<b>Jianwei Zhang</b> (Wuhan University, China) In-situ synthesis of Au nanoparticles immobilized on chitin nanogels and their potential applications in the tumor therapy	KN-06	<b>San-Lang Wang</b> (Tamkang University, Taiwan) Conversion of chitin to antidiabetic materials by <i>Paenibacillus</i> fermentation
	OA-07	<b>Feuangthit Niyamissara Sorasitthyanukarn</b> (Chulalongkorn University, Thailand) Fabrication and optimization of chitosan/alginate nanoparticles using Box-Behnken design for encapsulation of curcumin diethyl diglutarate	OB-01	<b>Tatiana M. Vasilieva</b> (Moscow Institute of Physics and Technology, Russia) Plasma chemistry for production of plant biostimulants from chitosan
	OA-08	<b>Thiloththama Hiranya Kumari Nawarathna</b> (Hokkaido University, Japan) Enzyme mediated calcium carbonate crystallization in the presence of natural polysaccharide	OB-02	<b>Karolina Maria Nowak</b> (Medical University of Warsaw, Poland) Innovative drug delivery system for controlled release of sodium meloxicam in dental procedures

16:15	Coffee Break			
16:30	PL-05	<b>Waldo M. Arguelles-Monal</b> <i>(Centro de Investigación en Alimentación y Desarrollo, Mexico)</i> Chitosan derivatives with controlled molecular architecture: dependence between chemical structure and properties	PL-06	<b>Jayakumar Rangasamy</b> <i>(Amrita Institute of Medical Sciences and Research Centre, India)</i> Multiple biomedical applications of chitin/chitosan hydrogels
	KN-07	<b>Xiaowen Shi</b> <i>(Wuhan University, China)</i> Homogeneous preparation of multi-sensitive chitin derivative	KN-10	<b>Thazin Han</b> <i>(Ministry of Education, Myanmar)</i> Production of chitosan and acetylated chitosan and their applications in agriculture and medical sector
	KN-08	<b>Tae-II Son</b> <i>(Chung-Ang University, Korea)</i> Preparation of UV-Curable Phosphonated Low-Molecular-Weight Chitosan Derivatives for Protein Drug Immobilization on the Surface of Titanium	OB-03	<b>Leslie Rae Pace</b> <i>(University of Memphis, USA)</i> Blended chitosan/polyol injectable paste for infection treatment and prevention
	KN-09	<b>Valery Varlamov</b> <i>(Research Center of Biotechnology of RAS, Russia)</i> Investigation of the Properties of N-[(2-Hydroxy-3-Trimethylammonium) Propyl] Chloride Chitosan Derivatives	OB-04	<b>Már Másson</b> <i>(University of Iceland, Iceland)</i> Chitosan nano-conjugates for photochemical internalization cancer therapy
	OC-02	<b>Toshiyuki Takano</b> <i>(Kyoto University, Japan)</i> Facile synthesis of acyl chitosan isothiocyanate and its application	OB-05	<b>Si Wu</b> <i>(Wuhan University, China)</i> Hierarchical structure of soft materials: A cathodic writing approach to control the function and properties of chitosan/agarose hydrogel
	OC-03	<b>Claire Negrell</b> <i>(Ecole Nationale Supérieure de Chimie de Montpellier, France)</i> Fonctionnalisation of chitosan: towards biobased products with new applications	OB-06	<b>Seunghwan Choi</b> <i>(Pohang University of Science and Technology (POSTECH), Korea)</i> Tough and anti-inflammatory titanium impregnated exoskeleton matrix for endoskeleton repair

## 29th (Wed)

	<b>Room A (4201)</b>		<b>Room B (4202)</b>	
9:00	PL-07	<b>Suwabun Chirachanchai</b> (Chulalongkorn University, Thailand) Water-based chitosan: a simple functionalization pathway for biomedical purposes	PL-08	<b>Sevda Senel</b> (Hacettepe University, Turkey) Micro- and nanosystems for enhancement of immune response
	YG-01	<b>Gökalp Gözaydın</b> (National University of Singapore, Singapore) Shell biorefinery: dream or reality?	YG-05	<b>Toki Taira</b> (University of the Ryukyus, Japan) Antifungal activity of chitinases
	YG-02	<b>Shinsuke Ifuku</b> (Tottori University, Japan) Chitin and Chitosan Nanofibers: Preparation, Chemical Modifications, and Applications	YG-06	<b>Takayuki Ohnuma</b> (Kindai University, Japan) Plant chitinases: structure, function, and exploitation in chitin oligosaccharide synthesis
	YG-03	<b>Ming-Hua Ho</b> (National Taiwan University of Science and Technology, Taiwan) Preparation of nitric oxide-releasing electrospun chitosan nanofibrous scaffolds for bone tissue engineering	YG-07	<b>Xevi Biarnes</b> (Universitat Ramon Llull, Spain) Modelling and engineering chitin deacetylases. How have they evolved to control the deacetylation pattern?
	YG-04	<b>Hironori Izawa</b> (Tottori University, Japan) Chitosan-based wrinkled surfaces: A new strategy for developing microscopic wrinkled surfaces by using chitosan	YG-08	<b>Wipa Suginta</b> (Suranaree University of Technology, Thailand) Understanding Chitin Uptake by Marine <i>Vibrio</i> Bacteria
10:20	Coffee Break			
10:35	YG-09	<b>Stefan Cord-Landwehr</b> (University of Münster, Germany) Enzymatic / mass spectrometric fingerprinting analyses of chitosans	YG-12	<b>Nivedhitha Sundaram M</b> (Amrita Institute of Medical Sciences and Research Centre, India) Enhancing Hemostatic Potential of Chitosan Based Injectable Hydrogel
	YG-10	<b>Xiaowen Shi</b> (Wuhan University, China) Electrical signal to control the self-assembly and structural construction of chitosan hydrogel	YG-13	<b>Kazuo Azuma</b> (Tottori University, Japan) Biological activities of surface deacetylated chitin nanofibers for skin application

	YG-11	<b>Mitsumasa Osada</b> ( <i>Shinshu University, Japan</i> ) Green technology for chitin utilization using only water	YG-14	<b>Makoto Anraku</b> ( <i>Sojo University, Japan</i> ) Clinical application of chitosan and chitosan-nanofibers in the treatment of oxidative stress related diseases
	PL-09	<b>Yoshiharu Nishiyama</b> ( <i>Univ. Grenoble Alpes, France</i> ) Crystal structures, molecular interactions and dynamics of chitin and chitosan	YG-15	<b>Gye Hwa Shin</b> ( <i>Kunsan National University, Korea</i> ) Role of chitosan coating in curcumin nano-carrier systems in the digestion and absorption
	KN-11	<b>Toshifumi Yui</b> ( <i>University of Miyazaki, Japan</i> ) Carbohydrate recognition by chitin binding proteins: a molecular dynamics study	OE-12	<b>Albert Schulte</b> ( <i>Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand</i> ) Convenient electrochemical enzyme activity determination: N-acetyl- $\beta$ -d-glucosaminidase potency screening as explored prototype system
	OA-09	<b>Mayuko Ogino</b> ( <i>Kansai University, Japan</i> ) Application of gel electrolytes with bacterial cellulose coated with alternating layers of chitosan and alginate to non-aqueous electric double layer capacitor	OB-07	<b>A Vikram Suthakar</b> ( <i>Auraphyll Innoventures India Private Limited, India</i> ) Chitin and chitosan as promising materials for enhancing the crop yield and physiological responses in plants
12:10	Lunch			
13:10	Poster Presentations (Even number, <b>Room C (4301)</b> )			

### 30th (Thu)

	<b>Room A (4201)</b>		<b>Room B (4202)</b>	
9:00	PL-11	<b>Joel David Bumgardner</b> ( <i>University of Memphis, USA</i> ) Electrospun chitosan membranes for local delivery of therapeutics	PL-12	<b>Masahiro Matsumiya</b> ( <i>Nihon University, Japan</i> ) Characteristics of chitinase isozymes from the liver of golden cuttlefish <i>Sepia esculenta</i>
	OA-10	<b>Wanpen Tachaboonyakiat</b> ( <i>Chulalongkorn University, Thailand</i> ) Development of chitin Pickering emulsion as a drug carrier approaching for transdermal administration	KN-12	<b>Masaru Mitsutomi</b> ( <i>Saga University, Japan</i> ) Exo-chitobiohydrolase from <i>Gongronella butleri</i>

	OA-11	<b>Hiraku Onishi</b> ( <i>Hoshi University, Japan</i> ) Preparation and evaluation of charge-modified polymer-prednisolone conjugate microparticles by polyion complexation method	OE-06	<b>Qing Yang</b> ( <i>Dalian University of Technology, China</i> ) Structural analysis of group II chitinase (ChtII) catalysis completes the puzzle of chitin hydrolysis in insects
	OA-12	<b>Jessica A. Jennings</b> ( <i>University of Memphis, USA</i> ) Injectable combination of trimethyl chitosan and poly (ethylene glycol) diacrylate chitosan for degradable local delivery of antimicrobials	OE-07	<b>Iuliia Pentekhina</b> ( <i>Niigata University, Japan</i> ) Identification of chitinase genes in chitinolytic bacteria isolated from Sakata in Niigata, Japan
	OA-13	<b>Shin Suenaga</b> ( <i>Shinshu University, Japan</i> ) Preparation of self-standing hydrogel using $\alpha$ - and $\beta$ -chitin nanofiber by hydrothermal treatment	OE-08	<b>Yasuyuki Arakane</b> ( <i>Chonnam National University, Korea</i> ) Group III chitinase with two catalytic domains is required for organization of the cuticular extracellular matrix of a beetle
	OA-14	<b>Ngesa Ezekiel Mushi</b> ( <i>University of Dar es Salaam, Tanzania</i> ) $\alpha$ -Chitin nanofibers from insect cuticle of grasshopper <i>Ruspolia Differens</i> : Preparation, structure and membrane properties	OE-09	<b>Eri Tabata</b> ( <i>Kogakuin University, Japan</i> ) Acidic chitinase mRNA levels and their chitinolytic activity are affected by the feeding behavior, which may determine chitin digestibility in animals
10:35	Coffee Break			
10:50	PL-13	<b>Svetlana Bratskaya</b> ( <i>Far Eastern Branch of RAS, Russia</i> ) Chitosan Cryogels for Fabrication of Porous Catalysts and Metal-Chelate Sorbents	PL-14	<b>Chong-Su Cho</b> ( <i>Seoul National University, Korea</i> ) A new way of producing natural anti-bacterial peptides in probiotics through intracellular stimulation by internalized inulin nanoparticles
	KN-13	<b>S. Sankaran Meenakshi</b> ( <i>The Gandhigram Rural Institute-Deemed to be University, India</i> ) Removal of toxic ions using the derivatives of chitin and chitosan	OE-10	<b>Seulgi Mun</b> ( <i>Chonnam National University, Korea</i> ) Functional importance of group I chitin deacetylases in higher order organization of chitin fibers in beetle cuticle
	OC-09	<b>Yeong-Tarng Shieh</b> ( <i>National University of Kaohsiung, Taiwan</i> ) Application of CO <sub>2</sub> -responsive chitosan-g-poly(2-dimethylamino ethyl methacrylate) prepared in high pressure CO <sub>2</sub>	OE-11	<b>Yuko S Nakagawa</b> ( <i>National Institute of Technology, Ichinoseki College, Japan</i> ) Analysis of the LPMO10s from <i>Streptomyces griseus</i>

	OC-04	<b>Preeti Pal</b> ( <i>Indian Institute of Technology, India</i> ) Treatment of real wastewater: Kinetic and thermodynamic aspects of cadmium adsorption onto surfactant-modified chitosan beads	OA-21	<b>J.N.T.Villanueva</b> ( <i>University of the Philippines, Philippines</i> ) Development of a chitosan-based, dye-incorporated-carbon dioxide indicator hydrogel beads for practical quality monitoring in food products and beverages manufacturing enterprises in the Philippines
	OA-16	<b>Ryoichi Nakayama</b> ( <i>Kogakuin University, Japan</i> ) Characterization of adsorption of metal ions using composite membrane prepared by chitosan based adsorbent	OB-08	<b>Priyanka Sahariah</b> ( <i>University of Iceland, Iceland</i> ) Antibacterial efficacy of chitosan derivatives towards planktonic cells and bacterial biofilm
12:10	Lunch			
13:10	PL-15	<b>Lina Zhang</b> ( <i>Wuhan University, China</i> ) Dissolution of chitin at low temperature and construction of novel functional materials via “green” process	PL-16	<b>Yoshiharu Okamoto</b> ( <i>Tottori University, Japan</i> ) Anti-tumor effects of orally administered chitin and chitosan oligosaccharides
	KN-14	<b>Ngo Dang Nghia</b> ( <i>Nha Trang University, Vietnam</i> ) Utilization of low-frequency ultrasound to intensify deproteinization and demineralization with pepsin in chitin production	KN-17	<b>Mangalathillam Sabitha</b> ( <i>Amrita School of Pharmacy, India</i> ) Topical and oral delivery of methotrexate loaded chitin nanogel for treatment of psoriasis
	KN-15	<b>Toshinari Kawada</b> ( <i>Kyoto Prefectural University, Japan</i> ) How to recognize chemically “obverse and reverse” faces of $\beta$ -1,4-glucans	OB-09	<b>Supriya fakeerappa manvi</b> ( <i>KLES Institute of Dental Sciences, India</i> ) Chitosan- A pervenient in ascendancy of oral diseases
	KN-16	<b>Jun-ichi Kadokawa</b> ( <i>Kagoshima University, Japan</i> ) Modification and functionalization of chitin using ionic liquids	OB-10	<b>Shruthi Eshwar</b> ( <i>KLES Institute of Dental Sciences, India</i> ) Chitosan- fucoidan nanocomposite hydrogel in bone regeneration
	OC-05	<b>Kecheng Li</b> ( <i>University of California - Riverside, USA</i> ) $^1\text{H}$ and $^{15}\text{N}$ NMR Characterization of A Homogeneous Chitin Tetrasaccharide in Binary $\text{H}_2\text{O}/\text{DMSO}$ Solution	OB-11	<b>Mengyao Zhao</b> ( <i>East China University of Science and Technology, China</i> ) Chitooligosaccharides ameliorates hepatic steatosis by inhibiting TG synthesis and fatty acid uptake pathways in nonalcoholic fatty liver disease mice

	OA-17	<b>Inmaculada Aranaz</b> (Complutense University, Spain) On the green synthesis of silver nanoparticles using low molecular weight chitosan produced by enzymatic depolymerization	OB-12	<b>Jun Lu</b> (East China University of Science and Technology, China) Inhibition Effect of Chitooligosaccharide on <i>Cronobacter</i> biofilm
	OC-06	<b>Masaya Shibano</b> (Kyoto University, Japan) Preparation of functional chitosan derivatives from acyl chitosan isothiocyanate	OB-13	<b>Yoko Kato</b> (Tohoku Gakuin University, Japan) Influence of electrical stimuli on the outer surface of the tunic in <i>Halocynthia roretzi</i>
15:00	Coffee Break			
15:15	PL-17	<b>Tadashi Uragami</b> (Functional Separation Membrane Research Center, Japan) Functional Separation Membranes from Chitin and Chitosan Derivatives	PL-18	<b>Isao Nagaoka</b> (Juntendo University School of Medicine, Japan) Chondroprotective action of glucosamine, a chitosan monomer, on the joint health of athletes
	KN-18	<b>Maria Bardosova</b> (Tyndall National Institute University College Cork, Ireland) Chitosan-based interpenetrating polymer networks - properties and applications	KN-19	<b>Martin G Peter</b> (University of Potsdam, Germany) Bioactivities of oligosaccharides derived from chitin, chitosan, and other polysaccharides - a critical review
	OA-18	<b>Da-Ming Wang</b> (National Taiwan University, Taiwan) Chitosan-containing membranes for pervaporation dehydration of alcohols	KN-20	<b>Se-Kwon Kim</b> (Korean Maritime and Ocean University, Korea) Continuous production of chitooligosaccharides and their biological activities
	OC-07	<b>CANCEL</b>	KN-21	<b>Nitar Nwe</b> (Advancing Life and Regenerating Motherland, Myanmar) Production and applications of chitin, chitosan and chitooligosaccharide: 18 years of our progress, present situation and future prospects
	OA-19	<b>Yu-Kaung Chang</b> (Ming Chi University of Technology, Taiwan) Preparation of Chitosan Modified Dye-Ligand Affinity Nanofiber Membrane: Its Development and Application to High Efficiency Protein Purification Technology	PL-19	<b>Guo-Jane Tsai</b> (National Taiwan Ocean University, Taiwan) Effects of chitosan molecular weights on bioactivity



	<p><b>Qiong Wu</b> (School of Engineering Sciences in Chemistry, Biotechnology and Health, Sweden)</p> <p>OC-08 High strength nanostructured membrane based on highly individualized <math>\beta</math>-chitin nanofibrils from Squid pens of <i>Illex Argentinus</i></p>	<p><b>Chuan-Kai Chung</b> (Ming Chi University Of Technology, Taiwan)</p> <p>OA-22 Novel Hemoperfusion Bioelectronic Device based on PEDOT:PSS/Chitosan Nanocomposite Sponge for Removal of Protein-bound Uremic Toxins</p>
	<p><b>Dong Soo Hwang</b> (Pohang University of Science and Technology, Korea)</p> <p>OA-20 Molecular weight- and degree of acetylation-dependent adhesion of chitosan in aqueous solutions</p>	<p><b>Mi Young Noh</b> (Chonnam National University, Korea)</p> <p>OB-14 Development and ultrastructure of the rigid dorsal and flexible ventral cuticles of the elytron of the red flour beetle, <i>Tribolium castaneum</i></p>
		<p><b>Ricky Kristan Manaois Raguindin</b> (University of the Philippines, Philippines)</p> <p>OB-15 FA-CS-MELPH-C343: Synthesis and characterization of folic acid adsorbed onto chitosan-encapsulated anticancer melphalan and fluorescent coumarin 343</p>