

Joint with the 33<sup>rd</sup> Korean Chitin & Chitosan Symposium (KCCS)

# **Future Paradigms and Strategies** for Sustainability and Applicability of Naturally Derived Materials

JEJU ORIENTAL HOTEL, Jeju, Republic of Korea October 31-November 3, 2023

## **About APCCS**

The 13<sup>th</sup> Asia-Pacific Chitin & Chitosan Symposium (APCCS) and the 33<sup>rd</sup> Korean Chitin and Chitosan Symposium (KCCS) are organized by the Korean Society for Chitin & Chitosan. APCCS is the world's largest global platform for chitin and chitosan based technology involving more than 30 countries in Asia. Following the 12th APCCS International Symposium held in Osaka, Japan in 2018, it has been decided that the 13th APCCS to be held in Jeju Island, Republic of Korea. We, KSCC and APCCS Committee, are expecting more than 500 researchers from about 20 countries and the symposium will take place at the Jeju Oriental Hotel in October 31-November 3, 2023. We sincerely invite you to share your knowledge and perspective on the future prospects of chitin and chitosan research and application.

## APCCS Organizers

#### **APCCS Co-chairs**

Hyun Jin Park (Korea Univ., Korea) **Jee June Song** (Mokpo National Univ., Korea) Kwontack Hwang (Nambu Univ., Korea) **Je Hee Lee** (Jeju National Univ., Korea)

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**Se Kwon Kim** (Hanyang Univ., Korea) Seiichi Tokura (Hokkaido Univ., Japan) **Secretary General** 

Jiyeon Chun (Sunchon National Univ., Korea)

# Plenary Lectures



Hyun Jin Park (Korea Univ., Korea) Chitosan-based Nano-delivery systems : Present and Future



Seiichi Tokura (Hokkaido Univ., Japan) Recent progresses of various functions of chitin and chitosan mainly on food and agricultural functions including biomedical function



Xiguang Chen (Ocean Univ. of China, China) Chitin/chitosan whisker and application



Jui-Yang Lai (Chang Gung Univ., Taiwan) Chitosan-Functionalized Biomaterials for Glaucoma Pharmacotherapy

## Special Talk



Dai-yeun Jung (Asia Climate Change Education Center, Korea) A Desirable Framework for Establishing a Carbon-Neutral Society

**■ Important Dates** □ Registration is open from 3rd April 2023.

☐ Early bird registration by 25th August 2023

☑ Deadline for the submission of abstracts: 13<sup>th</sup> October 2023

☐ The conference begins on the 31st October 2023.





The 33<sup>rd</sup> Annual Meeting of Korean Society for Chitin & Chitosan

## Call for Papers

The 13th Asia Pacific Chitin and Chitosan Symposium (APCCS 2023) will be held at JEJU ORIENTAL HOTEL, Jeiu, Republic of Korea during October 31-November 3, 2023. APCCS 2023 has been a technical forum for researchers and engineers to interact and disseminate information on the latest developments in Chitin and Chitosan. In this year, APCCS 2023 will be co-located with the 33rd Annual Meeting of Korean Society for Chitin and Chitosan. Prospective authors are invited to submit original technical papers for oral or poster presentation at the conference. Potential topics are solicited in, but not limited to the following topics.

#### International Journal of Biological Macromolecules Supports open access

The publication of the special issue (13th APCCS-33rd KSCC 2023) of the International Journal of **Biological Macromolecules** (IF 8.2) has been confirmed.



- Biotechnology
- Chemistry
- Nanotechnology
- Functional Food
- Cosmetic Application
- Marine Algal Polysaccharides Other Biopolymer Application
- Microbiology
- Medical Application
   Environmental Application
- Other Industrial Application
- and Their Bio activities Active & Sustainable Food Packaging
  - Sustainable Environmental Application
  - Student Oral Presentation

## Registration

Registration began on the website, <a href="http://www.apccs2023.org">http://www.apccs2023.org</a>, from April 3, 2023.

Abstract Submission will be available by October 13, 2023. It will be processed after the registration fee is paid in full. When you complete your registration and payment, you will receive an E-mail showing your registration details. If you do not receive the E-mail, please contact us (kschitinchitosan@naver.com).

Category	Fees (International: USD, Domestic: KRW)				
	Early-bird (April 3-Aug 25, 2023)	Normal (Aug 26-Oct 30, 2023)	Onsite (Oct 31-Nov 3, 2023)		
Regular	USD 500 (KRW 500,000)	USD 550 (KRW 550,000)	USD 600 (KRW 600,000)		
Student	USD 250 (KRW 250,000)	USD 300 (KRW 300,000)	USD 350 (KRW 350,000)		

<sup>\*</sup> Accompanying person registration: USD100

## Program Schedule

Time	Tuesday, Oct 31, 2023		Wednesday	, Nov 1, 2023	Thursday, Nov 2, 2023		Friday, Nov 3, 2023			
08:15-08:30					Registration, Opening Ceremony		Registration		Registration	
08:30-09:00			<b>PL 1</b> Prof. Hyun Jin Park Korea Univ. (Korea)		<b>PL 3</b> Prof. Seiichi Tokura Hokkaido Univ. (Japan)		<b>PL 4</b> Prof. Jui-Yang LAI Chang Gung Univ. (Taiwan)			
09:00-09:15						Break	Coffee Break		Coffee Break	
09:15-10:15			Session 3-1 Biotechnology	Session 4-1 Nanotechnology	Session 8-1 Chemistry	Session 9 Microbiology	Session 11 Functional Food	Session 12 Environmental Application		
10:15-10:30			Bre	eak	Break		Break			
10:30-11:30			Session 3-2 Biotechnology	Session 4-2 Nanotechnology	Session 8-2 Chemistry	Session 10 Other Industrial Application	Session 13 Active & Sustainable Food Packaging	Session 14 Sustainable Environmental Application		
11:30-13:00			Lur	nch	General Assembly Lunch		Closing Ceremony			
13:00-13:30			Pt Prof. Xigu Ocean Univ. o	ang Chen						
13:30-14:00	Registration		Director, Dai-yeun	al Talk Jung, Asia Climate on Center (Korea)	<b>Trip:</b> UNESCO World Heritage Seongsan Ilchulbong Peak					
14:00-14:45			Session 5-1	Session 6						
14:45-15:15	<b>Session 1</b> Marine Algal	Session 2 Student Oral	Medical Application	Cosmetic Application	- 10					
15:15-15:45	Polysaccharides and Their Bioactivities	lysacchandes and Procentation		Session						
15:45-16:30	Break				10 To					
16:30-17:45	Board Meeting of APCCS		Session 5-2 Medical Application	Session 7 Other Biopolymer Application						
18:00-	Welcome Reception (Invited only)		Editorial Board N	Meeting of KSCC	Banquet/P	erformance				



Organized by The Korean Society for Chitin & Chitosan and The 13th APCCS Committee E-mail: kschitinchitosan@naver.com Website: http://www.apccs2023.org



# APCCS The 13<sup>th</sup> Asia - Pacific Chitin and Chitosan Symposium

The 33<sup>rd</sup> Annual Meeting of Korean Society for Chitin & Chitosan

# Symposium Sessions

October 31 (Tuesday)

		Session 1: Marine Algal Polysaccharides and Their Bioactivities
MAP-1	14:45-15:00	Potential of sulfated polysaccharides from Sargassum hornerifor functional food ingredients (Prof. Young-Sang Kim. Jeju National Univ., Korea)
MAP-2	15:00-15:15	In vitro and in vivo immuno-enhancing effect of fucoidan isolated from non-edible brown seaweed Sargassum thunbergii (Dr. Fqngqi Yang, Jeju National Univ., Korea)
MAP-3	15:15-15:30	Celluclast assisted hydrolysate and its fractional ethanol extracts ameliorate high fat diet induced obesity and fatty liver through suppression of adipogenesis and lipolysis in white adipose tissues and fatty acid oxidation pathway in mouse liver tissues (Dr. Hyo-Geun Lee, Jeju National Univ., Korea)
MAP-4	15:30-15:45	Glycan Structural characterization of fucoidans derived from Sargassum species in Jeju Island and their anti-inflammatory activity: Structure-activity relationship (SAR) study (Dr. Jun-Geon Je, Jeju National Univ., Korea)
		Session 2: Student Oral Presentation
SOP-1	14:45-14:55	Hollow chitosan hydrogel tube with controllable wrinkled pattern via film-to-tube fabrication (Jingxian Zhang, Wuhan Univ., China)
SOP-2	14:55-15:05	Antioxidant Properties and Phlorotannin Content of Sea Mustard (Undaria pinnatifida) By-products (Rea Mae Templonueve, Sunchon National Univ., Korea)
SOP-3	15:05-15:15	Anti-allergic effect of Curcuma longa L. leaf hot water extract on IgE/BSA-stimulated mast cell activation and DNCB-induced atopic dermatitis in a BALB/c mouse model (Maheshika Jayasinghe, Chonnam National Univ., Korea)
SOP-4	15:15-15:25	Fucoidan refined from Saccharina japonica ameliorates fine dust-induced inflammation in human keratinocytes, underlying fibroblasts, and TPA-induced ear edema in mice (Isuru kirindage, Chonnam National Univ., Korea)
SOP-5	15:25-15:35	Characterization of PCL/Chitosan Nano-film Loaded with Nano-zeolite as Novel Food Packaging (Yue Zhao, Sunchon National Univ., Korea)
SOP-6	15:35-15:45	Structural analysis and biological properties of chitosan derived from black soldier fly Hermetia illucens <i>larvae</i> (Yong-Hyun Lee, Gachon Univ., Korea)
SOP-7	15:45:15:55	To be announced (Seonghyeon Nam, Jeju National Univ., Korea)
SOP-8	15:55-16:05	To be announced (Kyungmo Kang, Korea Univ., Korea)

### November 1 (Wednesday)

Session 3-1: Biotechnology	y
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Session 3-1. Diotectinology			
BT-1	09:15-09:30	Bioproduction of Prodigiosin from Chitin-Containing Fishery Byproducts and Its Application in Agriculture (Prof. San-Lang Wang, Tamkang Univ., Taiwan)	
BT-2	09:30-09:45	Effects of chitosan oligomer on the growth of onion (Dr. Parvin Begum, Showa Co. Ltd., Japan)	
BT-3	09:45-10:00	Electro-fabrication of chitosan hydrogel (Prof. Xiaowen Shi, Wuhan Univ., China)	
BT-4	10:00-10:15	Chitosan induces trained immunity in human microglial cells exposed to bacterial LPS (Prof. Thi Xoan Hoang, Gachon Univ., Korea)	
	Session 3-2: Biotechnology		
BT-5	10:30-10:45	Chitosan from various sources as pharmaceutical excipient – regulatory aspects (Katja Richter, Heppe Medical Chitosan GmbH, Germany)	
BT-6	10:45-11:00	3D Printing of Biomimetic Gastric Dynamic Model by using Metharylated Chitosan (Prof. Ming-Hua Ho, National Taiwan Univ. of Science and Technology, Taiwan)	
BT-7	11:00-11:15	Dual cure (thermal/photo) composite hydrogel derived from chitosan/collagen for in situ 3D bioprinting (Prof. Ming Kong, Ocean Univ. of China, China)	
BT-8	11:15-11:30	A gelatin-polysaccharide bioink for 3D fabrication of an in vitro multicellular brain-like tissue (Prof. Yi-Chen LI, Feng Chia Univ., Taiwan)	

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# Symposium Sessions

November 1 (Wednesday)

		Session 4-1: Nanotechnology
NANO 1	00:15 00:20	0,
NANO-1	09:15-09:30	Chitin nanofiber; modifications, biological properties, and its practical applications (Prof. Shinsuke Ifuku, Tottori Univ., Japan)
NANO-2	09:30-09:45	Study of Chitosan based Polyelectrolytic Complex Coacervates ( <i>Prof. Yan Zhao, Jihua Laboratory, China</i> )  3D-printed Polylactic Acid Scaffold Surface Modified with 4-Methoxycinnamic Acid-loaded Chitosan Nanoparticles for Bone
NANO-3	09:45-10:00	Regeneration (Abinaya Shanmugavadivu, SRMIST, India)
NANO-4	10:00-10:15	Bioinspired Design of Micro-Nano Hybrid Fibrous Network Chitosan Cryogel and Its Application (Luhe Qi, Wuhan Univ., China)
		Session 4-2: Nanotechnology
NANO-5	10:30-10:45	Chitosan Coated Yeast Microcapsule for Efficient Delivery of Cefadroxil for the Treatment of ulcerative colitis (Subramaniyan Natesan, NIPER Kolkata, India)
NANO-6	10:45-11:00	Injectable chitosan-based hydrogels for pH- and thermo-sensitive drug release of antibiotics (Chih-Yu Kuo, National Taipei Univ. of Technology, Taiwan)
NANO-7	11:00-11:15	Potential application of oligochitosan-coated-curcumin-loaded liposomes and curucmin-ologochitosan nanoparticle complexes in wound healing and scar treatment (Minh-Hiep Nguyen, Dalat Nuclear Research Institute, Vietnam)
NANO-8	11:15-11:30	To be announced (Prof. Min Hyeock Lee, Kyung Hee Univ., Korea)
		Session 5-1: Medical Application
MA-1	14:00-14:15	Adhesive Biomecial Polyphenolic Chitosan (Prof. Haeshin Lee, KAIST, Korea)
MA-2	14:15-14:30	Effect of glucosamine, a chitosan monomer on biomarkers for cartilage (Prof. Isao Nagaoka, Juntendo Univ., Japan)
MA-3	14:30-14:45	Application of chitosan and its derivatives in islet transplantation (Prof. Chia-Rui Shen, Chang Gung Univ., Taiwan)
MA-4	14:45-15:00	Chitosan films for mucoadhesive, ocular, and topical applications (Prof. Sabitha Mangalathillam, Amrita School of Pharmacy, India)
MA-5	15:00-15:15	The relationship between the structure of chitooligosaccharide and their anti-inflammatory activity (Prof. Kecheng Li, Chinese Academy of Sciences, China)
		Session 5-2: Medical Application
MA-6	16:30-16:45	Biomedical Application of Chitosan/Alginate based PEC Gel (Prof. Hiroshi Tamura, Kansai Univ., Japan)
MA-7	16:45-17:00	Antibacterial Chitosan Hydrogel in Infectious Wound Healing (Prof. Jayakumar Rangasamy, Amrita Vishwa Vidyapeetham, India)
MA-8	17:00-17:15	Preparation and validation of rapidly dispersing and disintegrating chitosan tablets as oral adsorbents in the treatment of li festyle-related disease (Prof. Makoto Anraku, Sojo Univ., Japan)
MA-9	17:15-17:30	Creation of chitosan-based structural objects for biomedical applications (Prof. Chih-Kaung Chen, National Sun Yat-Sen Univ., Taiwan)
MA-10	17:30-17:45	Antitumor effect of chitosan oligosaccharides (Dr. Yoshiharu Okamoto, Wolves Hand's Advanced Veterinary Medical Research Institute, Japan)
		Session 6: Cosmetic Application
MA-1	14:00-14:15	Chito-Beads: A Sustainable and Effective Alternative to Plastic Microbeads for Personal Care Products (Prof. Jeyoung Park, Sogang Univ., Korea)
MA-2	14:15-14:30	Commercialization for beauty and tissue regeneration and plastic surgery products using Solid Hyaluroinic Acid Technology Platform (CEO/Dr. Dong-Keon Kweon, Jinwoo Bio Co, Ltd.)
MA-3	14:30-14:45	Nanoencapsulation and Bioavailability Enhancement Study of Microalga <i>Phaeodactylum tricornutum</i> Extract Containing Fucoxanthin (Dr. Song Yi Koo, Korea Institute of Science and Technology, Korea)
MA-4	14:45-15:00	To be announced
MA-5	15:00-15:15	To be announced
		Session 7: Other Biopolymer Application
OBA-1	16:30-16:45	Physicochemical properties of bacterial cellulose/polypyrrole/ chitosan composite membranes and their evaluation as wound dressings (Prof. Trong-Ming Don, Tamkang Univ., Taiwan)
OBA-2	16:45-17:00	To be announced (Vice president, Tanachart Ralsiripong, Thai Wah Republic company ltd., Thailand)
OBA-3	17:00-17:15	Green design of novel starch for improving its functionality in food products (Prof. Hyunjung Jung, Chonnam National Univ., Korea)
OBA-4	17:15-17:30	Sulfur(VI) Fluoride Exchange (SuFEx)-Mediated Synthesis of the Chitosan-PEG Conjugate and Its Application as Protein Carriers (Prof. Kyungjae Jang, Gyeongsang National Univ., Korea)
OBA-5	17:30-17:45	Natural Resource-derived Biomaterials for 3D Printing and Gene Delivery (Prof. Hoon Seonwoo, Sunchon National Univ., Korea)



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# Symposium Sessions

#### November 2 (Thursday)

November 2 (Thursday)					
	Session 8-1: Chemistry				
CHEM-1	09:15-09:30	Solvation effect to convert molecular affinity of chitin molecules (Prof. Seiichi Tokura, Hokkaido Univ., Japan)			
CHEM-2	09:30-09:45	To be announced (Prof. Jongbin Lim, Jeju National Univ., Korea)			
CHEM-3	09:45-10:00	Fabrication of hydrothermally reduced graphene oxide/chitosan composite membranes with a lamellar structure on methanol dehydration (Prof. Wei-Song Hung, National Univ. of Science and Technology, Taiwan)			
CHEM-4	10:00-10:15	Synthesis of thermoplastic chitosan derivatives (Prof. Jun-ichi Kadokawa, Kagoshima Univ., Japan)			
	Session 8-2: Chemistry				
CHEM-5	10:30-10:45	Efficient conversion of chitin to 5-hydroxymethylfurfural in a HCOOH/CaCl <sub>2</sub> system (Prof. Yukun Qin, Chinese Academy of Sciences, China)			
CHEM-6	10:45-11:00	Preparation and their properties of functional chitosan derivatives via acyl chitosan isothiocyanates (Prof. Toshiyuki Takano, Kyoto Univ., Japan)			
CHEM-7	11:00-11:15	The development of bio-hydrogel from chitosan/-phosphoglycerol/peptide prevents postoperative wound adhesion (Prof. Hui-Min David Wang, National Chung Hsing Univ., Taiwan)			
CHEM-8	11:15-11:30	Chitin Extraction using Deep Eutectic Solvents (Prof. Wen-Can Huang, Ocean Univ. of China, China)			
	Session 9: Microbiology				
MICRO-1	09:15-09:30	(Keynote) Challenge to Microbiology Using Polysaccharide Nanoparticles as a New Formulation of Prebiotics (Prof. Chong-Su Cho, Seoul National Univ., Korea)			
MICRO-2	09:30-09:45	General Structure-Activity Relationship for Antimicrobial Chitosan Derivatives and Conjugates (Prof. Már Másson, Univ. of Iceland, Iceland)			
MICRO-3	09:45-10:00	Antimicrobial CRAMP-18 Peptide Conjugated to Chitosan via CuAAC: Evaluation of Antibacterial Activity (Prof. Sankar Rathinam, University of Iceland, Iceland)			
MICRO-4	10:00-10:15	To be announced			
		Session 10: Other Industrial Application			
OIA-1	10:30-10:45	Carboxymethyl chitosan has a peculiar pH- and CO2-responsive water solubility (Prof. Yeong-Tarng Shieh, National Univ. of Kaohsiung, Taiwan)			
OIA-2	10:45-11:00	Green and efficient processing technology for the whole industry chain of chitin (Prof. Xiangzhao Mao, Ocean Univ. of China, China)			
OIA-3	11:00-11:15	An economical and sustainable production model of chitosan from shrimp co-products toward the circular economy in Vietnam (Loc Thanh Phan, Vietnam Food, Vietnam)			
OIA-4	11:15-11:30	Chitin Nanofiber Films for Flexible Piezoelectric applications (Prof. Seok Ju Kang, Ulsan National Institute of Science & Technology, Korea)			
		Trip: UNESCO World Heritage / Seongsan Ilchulbong Peak			

#### November 3 (Friday)

Session 11: Functional Food					
FF-1	09:15-09:30	Separation, purification and Neuroprotective effects of chitosan oligosaccharide (Prof. Bin Wang, Jiangnan Univ., China)			
FF-2	09:30-09:45	Chitin and chitosan as saltiness enhancers for sodium reduction in foods (Prof. Shang-Ta Wang, National Taiwan Ocean Univ., Taiwan)			
FF-3	09:45-10:00	3D Food Printing: Principles of Obtaining Digitally-Designed Nourishment (Prof. Hyun Woo Kim, Korea Univ., Korea)			
FF-4	10:00-10:15	Effect of L-cysteine on functional properties and fibrous structure formation of 3D-printed meat analogs from plant-based proteins (Dr. Chhychhy Chao, Korea University, Korea)			
		Session 12: Environmental Application			
EA-1	09:15-09:30	$\textbf{Preparation of triiodide resin by reaction of potassium iodide with peracetic acid} \ \textit{(Prof. Jong-Hee Kwon, Gyeongsang National Univ., Korea)}$			
EA-2	09:30-09:45	Wholly bio-based, Ultra-tough, Biodegradable Polyester Composites Reinforced with Nanochitin and Nanocellulose (Prof. Jungho Jin, Univ. of Ulsan, Korea)			
EA-3	09:45-10:00	Optimizing Bioethanol Yield from Chitin Waste: Sustainable Biotechnological Approaches for a Circular Economy (P V Atheena, Manipal Institute of Technology, India)			
EA-4	10:00-10:15	Chitosan nanocrystals for food packaging application (Prof. Dongyeop Oh, Inha Univ., Korea)			
	Session 13: Active & Sustainable Food Packaging				
SFP-1	10:30-10:45	Life Cycle Assessment between reusable Recycled-PET with vacuum insulated panel and expanded polystyrene packaging (Prof. Yangjai Shin, Korea Univ., Korea)			
SFP-2	10:45-11:00	Current status and prospects of international and national standardization of active packaging (Dr. Jongkyoung Kim, Korea Conformity Laboratories, Korea)			
SFP-3	11:00-11:15	Development and Application of a Chitisan-Polyactate Packaging Material in Seafood Preservation (Prof. Guo Jane Tsai, National Taiwan Ocean Univ., Taiwan)			
SFP-4	11:15-11:30	Development of active packaging material for fishery products based High-Density Polyethylene /Zeolite/Zinc oxide ternary composite (Dr. Charoensri Korakot, Korea Univ., Korea)			
	Session 14: Sustainable Environmental Application				
SEA-1	10:30-10:45	Impact of Long Distance Transport on Secondary Aerosols, Air Toxics, and Aerosol Oxidative Potential during an Air Pollution Event in Korea (Prof. Minsuk Bae, Mokpo National Univ., Korea)			
SEA-2	10:45-11:00	Study on the current status of Greenhouse gas emissions from Sewage Treatment Facilities (Ye Hee Song, National Agricultural Products Quality Management Service, Korea)			
SEA-3	11:00-11:15	Development of scattering Dust prevention agent through Recycling of Sargassum Horneri which is Marine Debris (Seon Gyeong Jo, Seo Woo In Co. Ltd., Korea)			
SEA-4	11:15-11:30	A Study on the Efficient operation of Sewage treatment Facilities to respond to the Climate Crisis (Dr. Nam Kuk Cho, ATON Industry Co. Ltd., Korea)			



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