

INTERNATIONAL CONFERENCE ON ADVANCES IN CHITIN AND CHITOSAN

&
11th INDIAN CHITIN CHITOSAN SYMPOSIUM

January 31 - February 2, 2025

Department of Plant Sciences, University of Hyderabad

Day 1 (January 31, 2025)	
<i>Time</i>	<i>Program details</i>
12.30–13.00	Registration
13.00–14.00	Lunch
<i>Scientific Session 1</i>	
14.00– 14.30	Keynote Lecture: Chitin and Chitosan: Unleashing the Potential of Glucosamines against Drug-Resistant Microbes Prof. Jayanta Haldar, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore
14:30- 14:50	Invited lecture: Acceptability to biopolymers & synthetic polymers research by academicians in Indian context with special reference to chitin & chitosan Prof. P. K. Dutta, Motilal Nehru National Institute of Technology Allahabad, UP
15.00– 18:00	Tea and valedictory function in ICDPBB-2025
19:00 – 20.00	Dinner, SLS, UoH
Day 2 (February 1, 2025)	
9:00-9:45	Inauguration
9:45-10:15	Plenary Lecture: Chitin deacetylases for the production of sequence-defined chitosan oligosaccharides. Understanding and engineering specificity Prof. Antoni Planas, Institut Químic de Sarrià, University Ramon Llull, Barcelona, Spain
<i>Scientific Session 2</i>	
10:15-10:40	Invited lecture: Chitosan-based delivery of bioactive molecules in bone regeneration Prof. N. Selvamurugan, Department of Biotechnology, SRM Institute of Science and Technology, Kattankulathur
10:40-11:00	Invited lecture: Chitosan Hydrogel in Regenerative Medicine Dr. R. Jayakumar, School of Nanosciences and Molecular Medicine, Amrita Vishwa Vidyapeetham, Kochi
11:00-11:20	Invited lecture: Chitosan and its role in biomedical sciences Dr. Ira Bhatnagar, CCMB, Hyderabad
11:20-11:40	Invited lecture: Chitosan-based Composites for Tissue Engineering and Drug Delivery Applications Dr. Jayachandran Venkatesan, School of Dental Sciences and Technology, Department of Biomaterials and Transplant Science, Hyderabad, Telangana
11:40-12:00	Tea and Photo session
12:00 – 12:20	Invited lecture: Chitosan-based Nanosystems for photothermal therapy Aravind Kumar Rengan, IITH
12:20 – 12:40	Invited lecture: Development and characterization of zinc-phthalocyanine loaded chitosan scaffold for wound healing mediated by photodynamic therapy Subramanian Natesan, Department of Pharmaceutics, Advanced Formulation Laboratory, National Institute of Pharmaceutical Education and Research Kolkata, Kolkata – 700 054, West Bengal, India

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12:40-12:55	Oral Presentation: Comparative analysis of Carboxymethyl Chitosan with various drugs using molecular docking for the treatment of Alzheimer's disease Dr. Tanvi Jain, Shri Ramswaroop Memorial University, UP
13:00-14:00	Lunch
<i>Scientific Session 3</i>	
14:00 – 14:20	Invited lecture: Biopolymeric-assisted materials for arsenic removal from waters Dr. Subbaiah Muthu Prabhu, Department of Chemistry, VIT-AP University, AP
14:20 – 14:40	Invited lecture: Gamma-Irradiated Chitosan: A Pioneering Approach for Enhancing Sustainable Agriculture and Crop Resilience Dr. Sunil G.Dalvi, Vasantdada Sugar Institute, Pune
14:40-15:00	Invited lecture: Advancing Agricultural Sustainability with Chitosan-Based Innovations: Applications in Seed Coating and Microbial Delivery Systems Dr. Chandrika, ICAR-Indian Institute of Oilseeds Research, Rajendranagar, Hyderabad
15:00-15:12	Dr. Deshpahnde Award Talk
15:13-15:25	Oral Presentation: Microwave-assisted Chemical Modification of Chitosan and Other Biopolymers Dr. R. Kartik, CSIR-CLRI, Chennai, TN
15:25-15:47	Oral Presentation: Exploring the chitinolytic machinery of <i>Chitiniphilus shinanonensis SAY3</i> and its implication in chitooligosaccharides production T. Swaroopa Rani, Gitam School of Sciences, GITAM deemed (to be) University, Hyderabad
15:47-15:59	Oral Presentation: Dr. S. Das, Amakkantaka
16:00-16:12	Oral Presentation: Composition of the pretreatment solvent and the structural features of substrates and chitinases influence the bioconversion of α -chitin Dokku Sivaramakrishna, GITAM (Deemed to be University), Visakhapatnam
16:13-16:25	Dr. Manikandan, ARP Lab, UoH
16:30 -18:00	Tea Break and Poster session
19.00 – 20.00	Dinner

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Day 3 (February 2, 2025)

Scientific Session 4

09:20 – 09:40	Invited lecture: Chitosan patches for Mucoadhesive and wound healing Applications Dr. M. Sabitha, Professor, Amrita Vishwa Vidyapeetham, Cochin, Kerala
09:40 – 10:00	Invited Industry lecture: Approach to Medical Devices Development. Dr Shashikant Joshi, Director, SWAKIT BIOTECH PRIVATE LIMITED, BANGALORE
10:00-10:20	Invited industry lecture: Life Sciences and Healthcare Funding Landscape in India Dr. Ramjee Pallela
10:20-10:40	Invited industry lecture: Dr. KRK
10:40-11:00	Invited Industry lecture: Chitosan - Novel Biocontrol agent for enhancing crop farmer income. Dr. Ambika
11:00-11:20	Tea Break
11:20-1:00	Student Oral Presentation
11:20-11:30	Chitin-Polydioxanone composite scaffold: The amalgam for alveolar bone regeneration Kavipriya Murugaiyan, IIT, Hyderabad
11:30-11:40	Biochemical characterization of PcChiG, a highly upregulated chitinase with distinctive domain architecture from Paenibacillus chitinolyticus Akshay Nalubothula and Jogi Madhuprakash*
11:40-11:50	Molecular insights into chitin degradation by a Flavobacterium johnsoniae chitinase featuring a CBM6 domain Vandhana TM, SLS, UoH
11:50-12:00	Indigenously Developed Tunable Layered Dressings for the Treatment of Infected Leg Ulcers Arya Lakshmi.V.V, Riju Menon and R. Jayakumar*
12:00-12:10	FACILE CHEMICAL MODIFICATION OF CHITOSAN VIA NUCLEOPHILIC SUBSTITUTION WITH ORGANOHALIDES IN THE VAPOR PHASE Km Shelly, R Dhamodharan*
12:10-12:20	Core-shell nanofibers containing chitosan nanoparticles encapsulated with an osteoinductive molecule for bone tissue engineering Sushma Babu and N. Selvamurugan*
12:20-12:30	A wound-healing and antimicrobial hydrogel formulated by covalently binding salicylic acid to chitosan and incorporating agarose coordinated with calcium ions. Suraj Das, Sankar Chakma*
12:30-12:40	Mathematical modelling of cellulose and chitin degradation in the presence and absence of lytic polysaccharide monooxygenases Sweety Deena, Madhuprakash Jogi, Ragothaman M Yennamalli
12:40-12:50	Chitosan/corn starch films infused with sporopollenin containing pomegranate peel polyphenol for sapodilla preservation Diksha Lingait, Anupama Kumar
12:50:1:00	Development and Multi-Technique Characterization of a Piezoelectric BioNanocomposite Based on ZnO-Doped Chitosan/PVDF Matrix R. Jeyanthi, E.Praveen, Padma M J, J. Kabiriyl and C. Raja Mohan*

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13:00-14:00	Lunch
14:00-15:00	Valedictory function