

INTERNATIONAL CONFERENCE ON 'ADVANCES IN CHEMISTRY AND BIOLOGY OF CARBOHYDRATES' (CARBO XXXV)

Organized by

Chemistry & Bioprospecting Division, Forest Research Institute, Dehradun
in association with

Association of Carbohydrate Chemists and Technologists (India)
in commemoration of 75th year of India's Independence
(Azadi ka Amrit Mahotsav)

Date: December 04-05, 2021

Venue: ICFRE Board Room, Dehradun (in virtual mode)

DAY 1 (December 04, 2021)

Inaugural Session

9:20–9:30 hrs	Assemblage at the web
9:30–9:35 hrs	Welcome address and Introductory note by Dr. Vineet Kumar, Scientist-G & Organizing Secretary, Chemistry and Bioprospecting Division, FRI, Dehradun
9:35–9:40 hrs	ACCTI and its activities by Prof. G.S. Chauhan, Vice President, ACCTI and Emeritus Professor, Himachal Pradesh University, Shimla
9:40–9:45 hrs	Journey of 'Trends in Carbohydrate Research' by Dr. P.L. Soni, Chief Editor, e-TCR and Chief Advisor, ACCTI
9.45–9.55 hrs	Inaugural Address by the Chief Guest Sh. A.S. Rawat, IFS, Director General, Indian Council of Forestry Research & Education, Dehradun.
9.55–10.00 hrs	Vote of Thanks by Dr. Y.C. Tripathi, Head, Chemistry and Bioprospecting Division, FRI, Dehradun

Technical Session-I

Chairpersons: Prof. K.P.R. Kartha and Dr. V.K.Varshney

Time Duration	Presentation Title & Speaker
10:00–10:20 hrs Opening Lecture	An Overview of Carbohydrate Research at FRI, Dehradun – Dr. Vineet Kumar, Chemistry and Bioprospecting Division, FRI
10:20–10: 55 hrs IL-2	Chemoenzymatic synthesis and applications of carbohydrates and glycoconjugates – Prof. Xi Chen Department of Chemistry, University of California-Davis, One Shields Avenue, Davis, CA95616, USA
10:55–11:30 hrs IL-3	Carbohydrates: The Sweet World – Prof. Balaram Mukhopadhyay, Sweet Lab, Department of Chemical Sciences, Indian Institute of Science Education and Research, Kolkata, India
11:30–12:05 hrs IL-4	Glycoproteomic profiling of plasma, synovial fluid cell of Rheumatoid Arthritis and their glyco based mechanistic study: A Potential Prognostic Marker identification – Dr. Sagarika Biswas, Institute Of Genomics And Integrative Biology (CSIR–IGIB), New Delhi, India

12:05–12:40 hrs IL-5	Carbohydrate based molecules of therapeutic potential – Prof. Anup Kumar Misra, Bose Institute, Division of Molecular Medicine, Kolkata, India
12:40–13:00 hrs SL-1	Polysaccharides role in bridging gut and brain functions – Dr. Harish Parshanth , Functional Biopolymer Lab, Department of Biochemistry, CSIR-Central Food Technological Research Institute, Mysore 570020, India
Technical Session-II	
Chairpersons: Dr. Vineet Kumar and Dr. Amit Bhatt	
14:00–14: 35 hrs IL-6	Structure and Function of Synthetic Polysaccharides and Glycopeptides – Prof. Dr. Peter H. Seeberger , Max-Planck Institute for Colloids and Interfaces Am Mühlenberg, Potsdam (Germany) and Department of Chemistry, Freie Universität Berlin (Germany); Editor in Chief, Beilstein Journal of Organic Chemistry
14.35–15.10 hrs IL-7	Novel glycan-based fluorescent nanoprobe for biological applications from mammalian cells to plants – Prof. M. Carmen Galan , School of Chemistry, University of Bristol and Editor-in Chief, Carbohydrate Research
15.10–15.30 hrs SL-2	Efficient utilization of <i>Bacillus licheniformis</i> from hot-spring for cellulase production and generation of bioethanol from algal waste – Dr. Debabrata Baishya , Department of Bioengineering and Technology, GUIST, Gauhati University, Guwahati, India
15.30–15.50 hrs SL-3	Can nature-inspired sugar-based ionic molecules provide a sustainable future? – Dr. S. Rajasekhara Reddy School of Advanced Sciences, Department of Chemistry, VIT University, Vellore-632014, India
15.50–16.25 hrs IL-8	The use of multivalent carbohydrates against pathogenic targets – Prof. Roland J. Pieters , Department of Chemical Biology & Drug Discovery, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, The Netherlands
16.25–17.00 hrs IL-9	Food industry byproducts, a source of polysaccharides for sustainable and added value applications – Prof. Manuel A. Coimbra , LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Portugal and Editor-in Chief, Carbohydrate Polymers
17.00–17.20 hrs SL-4	Properties Evaluation of Indian Flax Fibre for Application in Textile – Dr. Kartick K. Samanta by ICAR-National Institute of Natural Fibre Engineering and Technology, Kolkata- 700040, West Bengal, India
17.20–17.55 hrs IL-10	Putting cellulose from bacteria and plants to work – Prof. Richard A. Gross , Rensselaer Polytechnic Institute (RPI), Constellation Chair: Biocatalysis and Metabolic Engineering, Center for Biotechnology and Interdisciplinary Studies; Professor, Department of Chemistry and Biology, Professor of Biomedical Engineering, New York

DAY 2 (December 05, 2021)	
9:10–9:20 hrs	Assemblage at the web
Technical Session-III	
Chairpersons: Dr. P.K. Gupta and Dr. Vikas Rana	
9:20–9:50 hrs IL-11	Nanocellulose as a promising reinforced material for the papermaking process – Dr. R.M. Mathur , Avantha Centre for Industrial Research & Development (ACIRD), Thapar Institute of Engineering & Technology, Patiala, India
9:50–10:20 hrs IL-12	Synthesis of Janus-faced Homoazanucleosides and Study of their Self Organization through Watson-Crick and Hoogsteen Base Pairing – Namakkal G. Ramesh , Department of Chemistry, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India
10:20–10:40 hrs SL-5	Understanding Relationship between Properties of V-type Starch Crystal and Enzyme Resistant Starch Type V – Soumya Ranjan Purohit , South Dakota State University, USA
Technical Session-IV	
Chairpersons: Prof. K.P.R. Kartha and Prof. G.S. Chouhan	
10.40–13.10 hrs	Oral Presentation by Young Researchers
Technical Session-V	
Chairpersons: Dr. Vasudev Singh, Dr. S.S. Bisht and Dr. K. Murli	
14:05–16: 25hrs	Poster Presentations
Valedictory Session	
16.25–17.00 hrs	<ul style="list-style-type: none"> – Remarks on the Conference – Remarks by Participants – Concluding Remarks of ACCTI – Valedictory Speech – Vote of Thanks

Presentation-wise adherence to time duration

Presentation Type	Time allotted (min)	Breakup of Allotted time (min)		
		Speaker's Introduction	Presentation	Discussion (Q/A)
Invited Lecture (IL)	35	2	25-28	5
Short Lecture (SL)	20	2	15	3
Oral Presentation (OP)	10	0	8	2

All presenters are requested to adhere with the allotted time.

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