



Ist Circular

**INTERNATIONAL  
CONFERENCE ON  
ADVANCES IN  
CHEMISTRY AND BIOLOGY  
OF  
CARBOHYDRATES**

**CARBO XXXV**

December 04 - 05, 2021

75  
Azadi Ka  
Amrit Mahotsav



**Organized by**

**FOREST RESEARCH INSTITUTE  
DEHRADUN - 248006 (INDIA)**

**&**

**ASSOCIATION OF CARBOHYDRATE CHEMISTS AND  
TECHNOLOGISTS INDIA (ACCTI)**

## THE CONFERENCE

Carbohydrates are ubiquitous and hold vital importance in addressing the fundamental human requirements from food to medicine and from cloth to construction. Recent researches have revealed much greater role of carbohydrates in biological processes than ever imagined. Abnormalities in the glycosylation of biomolecules in cell systems have severe implications and may lead to serious disorders such as cancer, diabetes, and several other genetic diseases. Carbohydrate-based drugs and vaccines are revolutionizing modern therapy. The technological advances in glycochemistry and glycobiology are paving the way for the discovery of new drugs enabling greater efficiency in the identification, synthesis, and evaluation of unique glycan epitopes found on a plethora of pathogens and malignant cells. The industrial importance of carbohydrates can be recognized by the fact that these chemical entities have become an indistinguishable part of human life in one form or other. However, understanding the structure and functional relationship is still in infancy that poses a strong challenge for the researchers.

With this milieu, CARBO-XXXV will feature a range of current topics including structural and functional aspects of carbohydrates, their synthesis, and applications, emerging trends in glycoscience, carbohydrate-based therapeutics, food, and nutraceuticals, carbohydrates industry interface, applications in the biorefinery context, etc. The invited speakers will address diversity of substrates and variety of scientific disciplines currently being applied to the most challenging problems in the field. The congenial atmosphere of the virtual conference, which includes formal discussion sessions will provide an excellent web forum for scientists of diverse disciplines - from academic to industrial backgrounds to interact, thereby promoting cross-disciplinary collaborations. The conference is being organized during the 75th anniversary of the Independence of India (Azadi Ka Amrit Mahotsav) signifying achievements of the country in the field of 'Chemistry and Biology of Carbohydrates'.

## INVITATION

The organizing committee takes the pleasure of cordially inviting you to participate in the International Conference on Advances in Chemistry and Biology of Carbohydrates [CARBO-XXXV] to be held during December 04-05, 2021 in virtual mode. The conference is being organized by the Forest Research Institute, Dehradun, India in collaboration with the Association of Carbohydrate Chemists and Technologists, India. It will provide an open forum for academicians, scientists, researchers, technologists, and industrialists to exchange their ideas and foster interactive research among participating members. You are also invited to submit an abstract for the conference.

## CONFERENCE THEME

**Advances in Chemistry and Biology of Carbohydrates**

### TECHNICAL THEMES

- Structural Diversity in Carbohydrates
- Synthesis and Applications of Carbohydrates
- Carbohydrate-based Therapeutics, Food and Nutraceuticals
- Plant and Microbial Polysaccharides
- Emerging Trends in Glycobiology/Glycoconjugates/Glycotechnology
- Industrial Polysaccharides & Applications
- Nanotechnology in Carbohydrates
- Application of Carbohydrates in Bio-refinery, Bio-energy, Oil Well Drilling, Paper Technology, Cosmetics etc.

## OFFICIAL LANGUAGE

The official language of the conference will be English and there will not be any provision of translation into other languages.



## SPEAKERS

- **Prof. M. A. Coimbra**, University of Aveiro, Aveiro, Portugal, and Editor in Chief, Carbohydrate Polymers
- **Prof. M. Carmen Galan**, University of Bristol, Bristol, UK, and Editor in Chief, Carbohydrate Research
- **Prof. Arun Goyal**, Indian Institute of Technology, Guwahati, India
- **Prof. Richard Gross**, Rensselaer Polytechnic Institute, New York, USA
- **Prof. V.B. Mathur**, Central Pulp & Paper Research Institute, Saharanpur, India
- **Prof. Balaram Mukhopadhyay**, Indian Institute of Science Education and Research, Kolkata, India
- **Prof. Roland Pieters**, Utrecht University, Utrecht, The Netherlands
- **Prof. N. G. Ramesh**, Indian Institute of Technology, New Delhi, India
- **Prof. Peter H. Seeberger**, Max Planck Institute of Colloids and Interfaces, Germany and Editor in Chief, Beilstein Journal of Organic Chemistry
- **Prof. P. K. Sharma**, Kurukshetra University, Kurukshetra, India

*\*The Surnames have been arranged alphabetically. More number of speakers are expected in days ahead*

## Instructions for submission of abstract

The abstract should comprise a Graphical abstract and Structured abstract. The Structured abstract should contain Background, Objective, Material and Methods, Results, and Conclusion followed by Keywords (3 to 5) and should be in a single MS Word file. No references should be included in the abstract. The word limit of the structured abstract is 250 words and it should be typed in Times New Roman, 12 fonts with single line spacing. In the case of more than one author, presenting author's name should be highlighted in bold. The authors should also provide Graphical abstract which is expected to represent the work described in the paper. Powerpoint, Origin, Photoshop, Paint, Corel draw, Adobe illustrator, Mind Meister can be used to create a graphical abstract. The Image size of the graphical abstract should be 500 by 200-pixel (5" w x 2" h) rectangle using a minimum resolution of 100 dpi and should be part of the main abstract. The graphical abstract should not include any additional text, outline, or synopsis. Any text or label should be part of the image file.

Among all the received abstracts, the 15 best abstracts will be selected by the technical committee for oral presentation. All participants of the conference need to register by submitting duly filled and signed registration form through email. Author submitting an abstract and/or making a presentation will be provided an e-certificate for participation/presentation.

## DEADLINES

**Abstract submission**

**: November 20, 2021**

**Invitation for oral presentation**

**: November 30, 2021**



## ABOUT HOST INSTITUTION

Established as Imperial Forest Research Institute in 1906, Forest Research Institute (FRI), Dehradun, is a premier institution under the Indian Council of Forestry Research and Education (ICFRE). Styled in Greco Roman Architecture by C.G. Blomfield, the main building is a National Heritage which was inaugurated in 1929. FRI, Dehradun is one of the oldest institutions of its kind and acclaimed the world over. The Institute's history is virtually synonymous with the evolution and development of scientific forestry, not only in India but across the entire sub-continent. Set in a lush green estate spread over 450 hectares, with the outer Himalaya forming its backdrop, the institute's main building is an impressive edifice, marrying Greco-Roman and Colonial styles of architecture, with a plinth area of 2.5 hectares. The Institute has a developed infrastructure of all equipped laboratories, library, herbarium, arboreta, and experimental fields for conducting forestry research, quite in keeping with the best of its kind anywhere in the world. The FRI with its majestic building also houses a Botanical Museum for the attraction of tourists. During this continuum of time, the FRI has significantly contributed to the research in forestry and environment, from basic forestry knowledge and technology to advanced studies in thrust areas like biotechnology, tree improvement, molecular biology, chemoprospecting of forest phytoproducts, wasteland reclamation, mined area rehabilitation, silviculture, agroforestry, forest pest and disease management, tissue culture, tree taxonomy, wood composites, wood seasoning, and preservation, etc. The Institute is also a Deemed to be University to impart forestry education and conducts M.Sc. and Ph.D. programs in different disciplines of forestry.

## ABOUT THE ACCTI

Association of Carbohydrate Chemists and Technologists, India (ACCTI), provides a common platform to scientists and technologists working in the field of chemistry and biology of carbohydrates in academic, research institutes and industries to exchange ideas and discuss recent developments. It strives to foster the advancement of knowledge in the field of carbohydrates, improvements in the basic research, development of new technologies for carbohydrate-related allied industries e.g. sugar and its downstream products, textiles, paper, food, and pharmaceuticals, etc. In the same pursuit, ACCTI also organizes carbohydrate conferences at different academic and research institutions in different parts of India. So far, 34 conferences have been organized which were widely attended by academicians, researchers, technologists, and representatives of industries having a common interest in carbohydrate-related research and development programs. ACCTI also publishes an international peer-reviewed scientific e-journal – 'Trends in Carbohydrate Research' ([www.trendscarbo.com](http://www.trendscarbo.com)), which has been very well accepted nationally and internationally. The journal is published quarterly and is indexed in Chemical Abstract Service (CAS), Elsevier, Ebesc database, and Scopus.

## ORGANIZING COMMITTEE

### CHAIRMAN

Sh. A. S. Rawat, IFS,  
Director, Forest Research Institute, Dehradun

### CONVENER CUM ORGANISING SECRETARY

Dr. Vineet Kumar  
Scientist-G, Chemistry & Bioprospecting Division  
Forest Research Institute, Dehradun

## TECHNICAL COMMITTEE

Dr. N. K. Upreti, Group Coordinator (Research), FRI Dehradun  
Dr. Y.C. Tripathi, Head, Chemistry & Bioprospecting Division, FRI Dehradun  
Dr. V. K. Varshney, Scientist-G, Chemistry & Bioprospecting Division, FRI Dehradun  
Dr. P. K. Gupta, Scientist-G, Cellulose & Paper Division, FRI Dehradun  
Dr. Vikas Rana, Scientist-D, Cellulose & Paper Discipline, Forest Products Division, FRI Dehradun  
Dr. Manoj Kumar, Scientist-C, IT & GIS Discipline, FRI Dehradun  
Dr. K. Murali, Scientist-B, Cellulose & Paper Division, FRI Dehradun  
Dr. Praveen Onial, Chief Technical Officer, Chemistry & Bioprospecting Division, FRI Dehradun

## EXECUTIVE COMMITTEE OF ACCTI

### Chief Advisor

Dr. P. L. Soni, Dehradun

### Advisor

Prof. K. P. R. Kartha, Kolkata

### President

Prof. Naveen K. Khare, Lucknow

### Vice President (Academic)

Prof. G. S. Chauhan, Shimla

### Vice President (Industry)

Mr. Asoke Dey Sarkar, USA

### Secretary

Prof. Ashok K. Prasad, Delhi

### Jt. Secretary

Prof. Vinod K. Tiwari, Varanasi

### Treasurer

Dr. Amit Bhatt, Dehradun

### Members

Prof. Rina Ghosh, Kolkata  
Dr. Brij Raj Sharma, Jodhpur  
Prof. B. Mukhopadhyay, Kolkata  
Prof. Arun Goyal, Assam  
Prof. I. P. Aidhen, Chennai  
Prof. T. Mohan Das, Tamilnadu  
Prof. Suvarn Kulkarni, Mumbai  
Dr. Harish Prashanth, Mysore  
Dr. Debabrat Baishya, Guwahati

**INTERNATIONAL CONFERENCE ON ADVANCES IN  
CHEMISTRY AND BIOLOGY OF CARBOHYDRATES**

**CARBO XXXV**

December 04 - 05, 2021

**Organized by  
FOREST RESEARCH INSTITUTE  
DEHRADUN - 248006 (INDIA)**

**&**

**ASSOCIATION OF CARBOHYDRATE CHEMISTS AND  
TECHNOLOGISTS, INDIA (ACCTI)**

**REGISTRATION FORM**

Participant ☐ Mr. ☐ Ms. ☐ Dr. ☐ Prof.

Name (in Block Letters): .....

Designation: .....

Organization: .....

Address for Correspondence: .....

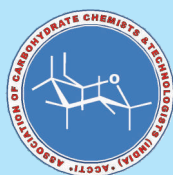
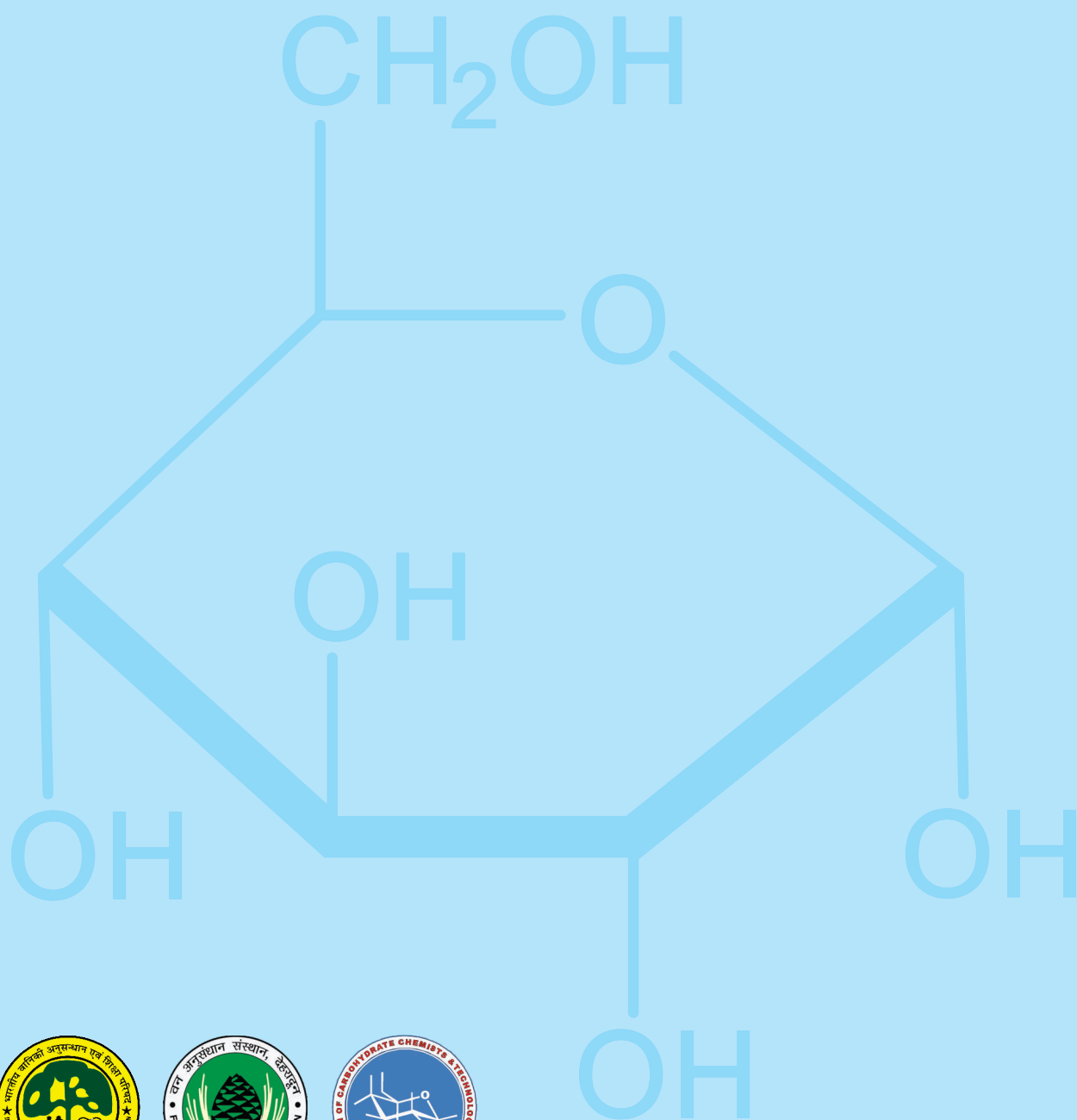
Pin/zip: .....

Telephone: ..... Fax: .....

Mobile: .....

Email: .....

Please e-mail your duly filled Registration Form along with the structured abstract  
in the prescribed format to the following: **carboxxxv@gmail.com**



---

## Contact Details

**Dr. Vineet Kumar**

Scientist-G,

Chemistry & Bioprospecting Division

Forest Research Institute, P.O. New Forest

Dehra Dun- 248006 Uttarakhand, India

Email: [carboxxxv@gmail.com](mailto:carboxxxv@gmail.com)

Phone: +91 135 2224210 (O)

+91 9410555335 (M)

