

Indian Institute of Technology Kharagpur
Department of Chemistry
Kharagpur 721 302, INDIA

Association of Carbohydrate
Chemists and Technologists, India
(ACCTI)



CARBO-XXXII
"Emerging Chemistry and Biology of
Carbohydrates"
(ECBC-2017)



December 18-20, 2017

Web-site: <http://www.chemistry.iitkgp.ac.in/~ecbc/>

SCIENTIFIC PROGRAMME

IL: Invited Lecture (30min); **SL:** Short Lecture (20min);
OP: Oral Presentation (15min); **SPP:** Selected Poster Presentation (10min)

Monday, December 18, 2017

08.00 am - 09.45 am	Registration	
09.30 am - 10.10 am	Inauguration	
10.10 am – 10.50 am	Technical Session-I Chairpersons: To be Announced	
10.10 am -10.50 am <u>Keynote Lecture - 01</u>	David Crich <i>Department of Chemistry</i> <i>Wayne State University, USA</i>	Shaping Next Generation Aminoglycoside Antibiotics for Treatment of Multidrug Resistant Infectious Diseases
10.50 am – 11.20 am	Award Ceremony	
11.20 am - 11.40 am	Tea-Break	
11.40 am - 01.15 pm	Technical Session-II Chairpersons: To be Announced	
11.40 am - 12.10 pm <u>IL-01</u> (Award Lecture)	Ghanshyam S. Chauhan <i>Department of Chemistry</i> <i>Himachal Pradesh University, India</i>	Advancing the E ² Concept: Quest for Sustainable Development
12.10 pm -12.40pm <u>IL-02</u>	Sundarababu Baskaran <i>Department of Chemistry</i> <i>Indian Institute of Technology Madras,</i> <i>India</i>	Novel Oxidative Cyclization of Carbanion: Stereoselective Synthesis of Heterocyclic Ring Systems
12.40 pm - 01.00 pm <u>SL-01</u>	Pintu K. Mandal <i>Medicinal and Process Chemistry</i> <i>Division, CSIR-Central Drug Research</i> <i>Institute, Lucknow, India</i>	Application of Isocyanide-Based MCRs for the Synthesis of Highly Substituted Azridinyl Glycoconjugates
01.00 pm - 01.15 pm <u>OP-01</u> (Award Lecture)	Kunj Bihari Mishra <i>Department of Chemistry</i> <i>Indian Institute of Technology BHU,</i> <i>Varanasi, India</i>	Design and Development of Carbohydrate Containing Molecules as Potential Chemotherapeutic Agent
01.15 pm - 02.00 pm	Lunch	
01.45 pm – 02.45 pm	Poster Session-I (All Posters to be displayed) Chairpersons: To be Announced	
02.45 pm - 04.30 pm	Technical Session-III Chairpersons: To be Announced	

02.45 pm - 03.15 pm <u>IL-03</u> (Award Lecture)	Arun Goyal <i>Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati, India</i>	<i>In Vitro</i> Synthesis of Prebiotic Isomalto-Oligosaccharides in Mango and Pineapple Juices using Dextranase from <i>Weissella cibaria</i> RBA12
03.15 pm - 03.45 pm <u>IL-04</u>	Kalpna Chauhan <i>School of Chemistry Shoolini University, Solan, India</i>	Polysaccharide-Based Materials for Water Applications
03.45 pm - 04.15 pm <u>IL-05</u>	Niranjan Karak <i>Chemical Sciences Department Tezpur University, Tezpur, India</i>	Smart Hyperbranched Polyurethane Nanocomposites from Renewable Resources including Carbohydrates
04.15 pm - 04.30 pm <u>OP-02</u>	Abhijit Sau <i>School of Chemistry University of Bristol, UK</i>	Catalytic Stereoselective Synthesis of Deoxyglycosides
04.30 pm - 04.50 pm	Tea/Snacks	
04.50 pm - 06.25 pm	Technical Session-IV Chairpersons: To be Announced	
04.50 pm - 05.20 pm <u>IL-06</u>	Uday Maitra <i>Department of Organic Chemistry, Indian Institute of Science Bangalore, India</i>	Applications of a Soft Photoluminescent Material for Enzyme Sensing
05.20 pm - 05.50 pm <u>IL-07</u> (Award Lecture)	Sunil K. Sharma <i>Department of Chemistry University of Delhi, India</i>	Carbohydrate Based Architectures for Biomedical Applications
05.50 pm - 06.10 pm <u>SL-02</u>	Jhuma Ganguly <i>Department of Chemistry Indian Institute of Engineering Science and Technology Shibpur, India</i>	Gelators- A New Perspective
06.10 pm - 06.25 pm <u>OP-03</u>	Divya Kushwaha <i>Chemistry Section, Mahila Maha Vidhyalaya, Banaras Hindu University, Varanasi, India</i>	Carbohydrates as Potentially Versatile Core Subcarriers for Multivalent Immunogens
06.25 pm - 7.30 pm	General Body Meeting ACCT(I)	
07.30 pm -10.30 pm	Conference Dinner (Railway Officers' Club)	

Tuesday, December 19, 2017

09.00 am – 10.45 am	Technical Session-V Chairpersons: To be Announced	
09.00 am - 09.30 am <u>IL-08</u>	Santanu Bhattacharya <i>Indian Association for the Cultivation of Science, Kolkata, India</i>	Selective Sensing of Biologically Relevant Sugars
09.30 am -10.00 am <u>IL-09</u>	Valentin Wittmann <i>Fachbereich Chemie, Universitaet Konstanz, Germany</i>	Chemical Biology of Cellular Carbohydrates
10.00 am - 10.30 am <u>IL-10</u>	Pradeepkumar P. I. <i>Department of Chemistry Indian Institute of Technology Bombay India</i>	Structural and Functional Insights into the Translesion Synthesis across N ² -dG Damaged DNAs

10.30 am – 10.45 am <u>OP-04</u>	Vivek Sharma <i>Department of Chemistry University of Delhi, India</i>	Sugar-modified Oligonucleotides: Antisense Properties and Delivery
10.45 am - 11.05 am	Tea-Break	
11.05 am – 12.55 pm	Technical Session-VI Chairpersons: To be Announced	
11.05 am -11.35 am <u>IL-11</u> (Award Lecture)	K. P. R. Kartha <i>Department of Medicinal Chemistry National Institute of Pharmaceutical Education and Research, Mohali, India</i>	An Efficient Strategy for the Synthesis of Novel Pyrrole-Linked C-Galactosides as Potential Anti-Tubercular Agents
11.35 am – 12.05 pm <u>IL-12</u>	Vinod K. Tiwari <i>Department of Chemistry Banaras Hindu University, India</i>	Synthesis of Diverse Glycoconjugates of Chemotherapeutic Potential
12.05 pm – 12.35 pm <u>IL-13</u>	Ashok K. Prasad <i>Department of Chemistry Delhi University, India</i>	Carbohydrate Modification: Route to Novel Nucleosides and Amphiphiles
12.35 pm – 12.55 pm <u>SL-03</u>	Amit Kumar <i>Department of Chemistry Indian Institute Technology Patna, India</i>	A Promising Synthetic Route for Glycosidic Bond Formation
12.55 pm – 01.45 pm	Lunch	
01.30 pm - 3.00 pm	Poster Session-II (All Posters to be displayed) Chairpersons: To be Announced	
03.00 pm - 04.15 pm	Technical Session-VII Chairpersons: To be Announced	
03.00 pm - 03.30 pm <u>IL- 14</u> (Award Lecture)	Balaram Mukhopadhyay <i>Department of Chemical Sciences Indian Institute of Science Education and Research Kolkata, India</i>	Excitement with Synthetic Carbohydrate Chemistry
03.30 pm - 04.00 pm <u>IL -15</u>	Rina Ghosh <i>Department of Chemistry Jadavpur University, India</i>	Synthesis of Oligosaccharides of Bacterial Antigens Utilizing One-pot Glycosylation Reactions
04.00 pm - 04.15 pm <u>OP-05</u>	Bhuvan B. Mishra <i>Center of Innovative and Applied Bioprocessing (CIAB), Mohali, India</i>	Processing of Kinnowmandarin (<i>Citrus Reticulata</i>) Fruit Waste for Production of Brønsted Acidic Ionic Liquids and their Application in Recovery of Invert Sugar Syrup from Sucrose
04.15 pm - 04.45 pm	Tea/Snacks	
04.45 pm - 06.15 pm	Technical Session-VIII Chairpersons: To be Announced	
04.45 pm - 05.15 pm <u>IL- 16</u>	Desh Deepak <i>Department of Chemistry Lucknow University, India</i>	Isolation of Unusual Oligosaccharides from Milk of Different Origin
05.15 pm – 05.45 pm <u>IL- 17</u>	Vasudeva Singh <i>Department of Studies in Food Science and Nutrition, University of Mysore, India</i>	Status of Phytochemicals in Non- Glutinous Noodles from Nixtamalized Dent and Flint Maize

05.45 pm - 6.15 pm <u>IL-18</u>	Vineet Kumar <i>Chemistry Division</i> <i>Forest Research Institute Dehradun,</i> <i>India</i>	Structural Analysis and Functionalization of Polysaccharides
06.15 pm - 07.45 pm	Cultural Programme	
07.45 pm - 09.30 pm	Dinner	

Wednesday, December 20, 2017

09.00 am - 11.30 am	Technical Session-IX Chairpersons: To be Announced	
09.00 am - 09.40 am <u>Keynote Lecture - 02</u>	Mathew Sollogoub <i>Université Pierre et Marie Curie, Institut</i> <i>Parisien de Chimie Moléculaire, Paris,</i> <i>France</i>	Selective Functionalizations of Cyclodextrins for Bio-Inspired Applications
9.40 am - 10.10 am <u>IL-19</u>	M. S. Shashidhar <i>Organic Chemistry Division</i> <i>National Chemical Laboratory, Pune</i> <i>411008, India</i>	Synthesis of Chiral Inositol Derivatives – What has Crystal Structures to do with it?
10.10 am - 10.30 am <u>SL-04</u>	Jeyakumar Kandasamy <i>Department of Chemistry</i> <i>Indian Institute of Technology BHU,</i> <i>Varanasi, India</i>	<i>Tris</i> -(Pentafluorophenyl)borane Promoted Stereoselective Synthesis of Glycosides under mild Condition
10.30 am - 10.40 am	SPP - 1	To be announced during conference
10.40 am - 10.50 pm	SPP - 2	To be announced during conference
10.50 pm - 11.00 pm	SPP - 3	To be announced during conference
11.00 pm - 11.10 pm	SPP - 4	To be announced during conference
11.10 pm - 11.20 pm	SPP - 5	To be announced during conference
11.20 pm - 11.30 pm	SPP - 6	To be announced during conference
11.30 am - 12.00 am	Tea-Break	
12.00 pm – 01.10 pm	Technical Session-X Chairpersons: To be Announced	
12.00 pm – 12.30 pm <u>IL-20</u>	Indrapal Singh Aidhen <i>Department of Chemistry, Indian</i> <i>Institute of Technology Madras</i> <i>Chennai 600036, India</i>	Synthesis of Trihydroxy Open Chain Lipophilic Ketones and 3-Glycosylated Isocoumarins
12.30 pm - 12.50 pm <u>SL-05</u> (Award Lecture)	Paulami Merchant <i>Lucid Colloids Limited, Mumbai, India</i>	Carbohydrates as Versatile Raw Materials in Industrial Applications
12.50 pm - 01.10 pm <u>SL-06</u> (Award Lecture)	Cláudia P. Passos <i>Chemistry Department</i> <i>University of Aveiro, Portugal</i>	Microwave Extraction of Bioactive Carbohydrates from Industrial By-Products: Advantages and Potential Applications
01.10 pm - 02.10 pm	Lunch	
02.10 pm - 03.30 pm	Poster Award Ceremony and Valedictory Session	