SCIENTIFIC PROGRAMME

International Carbohydrate Conference (CARBO-XXXIV) on "EMERGING FRONTIERS IN CARBOHYDRATE CHEMISTRY AND GLYCOBIOLOGY" December 5-7, 2019

Venue: Malviya Hall, University of Lucknow, Lucknow, India

PL: Plenary lecture (35 Min); **IL**: Invited Lecture (25 Min); **OP**: Oral Presentation (15 Min); **SPP**: Selected Poster Presentation (10 Min)

December 5, 2019

| 08.00 AM-09.30 AM | | Registration | | |
|----------------------------|--|---------------------------------|--|--|
| 09.30 AM-11.00 AM | | Inauguration and Award Ceremony | | |
| 11.00 AM-11.20 AM | | | High Tea | |
| TECH | NICAL SESSION-1 (11.2 | 20 AM-01. | 10 PM), Chairpersons | |
| Prof. David W. Gammon | | | Dr. P.L. Soni | |
| Department of Chemistry a | and | | Editor-in-Chief, e-TCR | |
| Assistant Dean of the Facu | lty of Science, | | Ex- Head and Chief-technical advisor | |
| University of Cape Town, | Cape Town, | | Forest Research Institute, Dehradun, India | |
| South Africa | | | | |
| Session Convene | r: Prof. R.M. Naik, Depar | rtment of C | Chemistry, University of Lucknow | |
| 11.20 AM -11.55 AM | Prof. Richard R. Schm | idt, | Glycosylation- Efficiency in Glycosyl | |
| PL-1 | Fachbereich Chemie, Un | iversitat | Acceptor Masking and in | |
| | Konstanz, Germany | | Glycosyl Donor Anomeric | |
| | • | | Stereoselection | |
| 11.55 AM-12.20 PM | Prof. Valentin Wittmann, | | Application of Chemoselective Ligation | |
| IL-1 | Fachbereich Chemie, Universitat | | Reactions in Carbohydrate Chemistry | |
| | Konstanz, Germany | | | |
| 12.20 PM-12.45 PM | Prof. Tanmay Pathak, | | Vinyl Sulfones as 2π Partners in 1,3 | |
| IL-2 | Department of Chemistry | | Dipolar Cycloadditions Metal Free | |
| | Indian Institute of Techn | ology | Routes to Disubstituted 1,2,3- | |
| | Kharagpur, India | | Triazolyated Carbohydrates | |
| 12.45 PM-01.10 PM | Prof. Paul V. Murphy, | | Synthesis and Study of Ligands for | |
| IL-3 | School of Chemistry, | | Carbohydrate Binding Proteins | |
| | NUI Galway, Ireland | | | |
| 01.10 PM-02.10 PM | Lunch and Poster Session | | | |
| TECH | NICAL SESSION-2 (2.1 | 0 PM-04.1 | 5 PM), Chairpersons | |
| Dr. S.J.S. Flora | | | Dr. K.P.R. Kartha | |
| Director | | Professor (Retd.) | | |
| | National Institute of Pharmaceutical Education and | | Department of Medicinal Chemistry, | |
| | lesearch (NIPER) | | Institute of Pharmaceutical Education and | |
| Raebareli, India | | | Research (NIPER), Mohali, Punjab, India | |
| | Session Convener: Prof. V.S. Yadav, Department of Chemistry, University of Lucknow | | | |
| 02.10 PM-02.45 PM | Prof. Tushar K. Chakr | | ncRNAs as Therapeutic Targets: A | |
| PL-2 | Indian Institute of Science | ce, | Paradigm Shift in Drug Discovery | |
| 00 45 DN5 00 40 DN5 | Bengaluru, India | | N. 1. 1 . 1 . 1 . 1 . 1 | |
| 02.45 PM-03.10 PM | Prof. Roland J. Pieters, | | Multivalent Inhibitors of Protein | |
| IL-4 | Utrecht Institute for | T.T. 1 . | Carbohydrate Interactions | |
| | Pharmaceutical Sciences, Utrecht | | | |
| | University, The Netherlands | | | |

| 03.10 PM-03.35 PM | Dr. Vinod K. Tiwari, | Click Inspired Synthesis of Glycohybrid | |
|-----------------------|---|---|--|
| IL-5 | Department of Chemistry, | Molecules of Chemotherapeutic | |
| (Excellence in | Banaras Hindu University, | Potential | |
| Carbohydrate Research | Varanasi, India | | |
| Award Lecture) | | | |
| 03.35 PM -04.00 PM | Prof. Indrapal Singh Aidhen, | Synthesis of C-Glycosides of | |
| IL-6 | Department of Chemistry, | Biologically Important Lead Molecules | |
| | Indian Institute of Technology | | |
| | Madras, Chennai, India | | |
| 04.00 PM-04.15 PM | Dr. Debabrat Baishya, | Thermostable Cellulose Degrading | |
| OP-1 | Department of Bioengineering | Bacteria from Dirang Hotspring and its | |
| | and Technology, Gauhati | Utility in Bioethanol Production from | |
| | University, Guwahat, India | Agrowaste | |
| 04.15 PM-05.40 PM | Tea and Poster Presentation | | |
| 0. 40 DN 0. 40 DN 5 | | | |
| 05.40 PM-06.10 PM | Industry-Academia Panel Discussion | | |
| | Panel List: 1. Dr. P.L. Soni | | |
| | 2. Prof. K.P.R. Kartha | | |
| | 3. Dr. Rene Roy | | |
| | 4. Prof. Serge Mignani | | |
| | 5. Dr. Raju Adhikari | | |
| | 6. Dr. Brij Raj Sharma 7. Dr. Nishodh Saxena | | |
| 06.10 PM -06.40 PM | | | |
| 00.10 F W -00.40 F W | Annual General Body Meeting | | |
| 06.40 PM-07.40 PM | Cultural Programme | | |
| 07.40 PM-09.30 PM | Dinner | | |
| | | | |

December 6, 2019

| TECHNICAL SESSION-3 (09.00 AM-10.55 AM), Chairpersons | | | |
|---|-----------------------------------|---|--|
| Prof. Richard R. Schmidt | | Dr. G. Muralikrishna | |
| Fachbereich Chemie, | | Retd. Head & Chief Scientist, | |
| Universitat Konstanz, Germany | | Department of Biochemistry | |
| | | CSIR-CFTRI, Mysore, India | |
| Session Convener: Prof. V.K. Sharma, Department of Chemistry, University of Lucknow | | | |
| 09.00 AM-09.35 AM | Prof. David W. Gammon, | Challenges in the Synthesis of Unusual | |
| PL-3 | University of Cape Town, | Sugars and Glycoconjugates | |
| | South Africa | | |
| 09.35 AM-10.00 AM | Dr. Brij Raj Sharma, | Guar Gum: A versatile Industrial | |
| IL-7 | Quality Assurance/Research & | Hydrocolloid | |
| (CG Merchant | Development, Sunita | | |
| Memorial Award | Hydrocolloids Pvt.Ltd. Rajasthan, | | |
| Lecture) | India | | |
| 10.00 AM-10.25 AM | Dr. Raju Adhikari, | Biodegradable Polymers for Agriculture | |
| IL-8 | RMIT University, Victoria, | and Packaging Applications | |
| | Australia | | |
| 10.25 AM-10.40 AM | Dr. Ritu Mahajan, | Comparative Study of Pesticide Delivery | |
| OP-2 | Institute of Nanoscience and | using Polysaccharide Nanocomposites/ | |
| | Technology, Mohali, Punjab, India | Polysaccharide Composites /Lignin- | |
| | | Clay/ Modified Clay-Polyethyleneimine | |

| 10.40 AM-10.55 AM | Dr. Koushik Mazumder, | Development of Carbohydrate Based |
|--|--|---|
| OP-3 | Food and Nutritional | Edible Coatings to Extend the Post- |
| 01-3 | Biotechnology Department | Harvest Shelf Life of Perishable Fruit |
| | National Agri-Food Biotechnology | Crops |
| | Institute (NABI), Mohali, India | Crops |
| 10.55 AM-11.10 AM | | A BREAK |
| TEC | UNICAL CECCION A (11 10 AM 01 | 25 DMC CL : |
| IEC | HNICAL SESSION-4 (11.10 AM-01 | .25 PM), Chairpersons |
| Dr. Pradeep Jauhari | | Prof. Ashok K. Prasad |
| Formerly Director | | Department of Chemistry |
| Ministry of Chemical an | | University of Delhi |
| <u> </u> | nastri Bhavan, New Delhi, India | Delhi, India |
| | er: Dr. Abha Bishnoi, Department of | • |
| 11.10 AM -11.45 AM | Prof. Vito Ferro, | Synthesis of Disaccharide Standards for |
| PL-4 | University of Queensland, | Quantitation of Heparin Sulfate in |
| | Brisbane, Australia | Biological Samples |
| 11.45 AM-12.10 PM | Prof. Hiromune Ando, | A Simple and Powerful Solution of |
| IL-9 | Faculty of Applied Biological | Stereoselective Silylation |
| 12.10 PM-12.35 PM | Sciences, Gifu University, Japan Prof. Mathieu Sollogoub, | Cyclodextrins Imitating Proteins |
| IL-10 PM-12.35 PM | Sorbonne Université, Institut | Cyclodextrins initiating Proteins |
| 111-10 | Parisien de chimie Molculaire | |
| | Paris, France | |
| 12.35 PM-01.00 PM | Prof. Srinivas Hotha, | Burgeoning Influence of Gold-catalysed |
| IL-11 | Indian Institute of Science | Glycosidations on Glycosaminoglycans |
| | Education and Research, Pune, | and Tuberculosis |
| | India | |
| 01.00 PM-01.25 PM | Dr. Amritpal Kaur, | Diversity in Starch and Flour |
| IL-12 | Guru Nanak Dev University, | Functionality Amongst Indian Wheat |
| (Prof. M. P. Khare | Amritsar, Punjab, India | Varieties |
| Memorial Award | | |
| Lecture) | | |
| 01.25 PM-02.30 PM | Lunch and Poster Session | |
| TEC | HNICAL SESSION-5 (02.30 PM-04 | .00 PM), Chairpersons |
| | | - |
| Dr. R.P. Tripathi | | Prof. Balaram Mukhopadhyay |
| Dean and Course Coordinator | | Department of Chemical sciences, |
| National Institute of Pha Raebarelli, India | rmaceutical Education and Research, | IISER Kolkata, West Bengal, India |
| , | | |
| Session Conver | ner: Prof. R.N. Singh, Department of | Chemistry, University of Lucknow |
| 02.30 PM-02.55 PM | Prof. Bruno J. Linclau, | Insights in Carbohydrate Lipophilicity |
| IL-13 | University of Southampton, | |
| | Highfield, Southampton, United Kingdom | |
| 02.55 PM-03.20 PM | Prof. M.S. Shashidhar, | myo-Inositol to Natural Products: |
| IL-14 | National Chemical Laboratory, | Enantiomeric Scaffolding Appears to be |
| | Pune, India | the Key |
| 03.20 PM-03.45 PM | Dr. Pradeep K. Srivastava, | Glycobiology: Promising Future Ahead |
| IL-15 | Ex. Senior Principal Scientist, | |
| | CSIR-CDRI, Lucknow, India | |
| | Sir Chit, Luckilow, illula | <u>l</u> |

| 03.45 PM-04.00 PM | Dr. Vishwa Deepak Tripathi, | Glycorandomisation: A Powerful Tool in | | |
|---|---|--|--|--|
| OP-4 | Department of Chemistry, | Drug Discovery | | |
| | M. K. College, Lalit Narayan | | | |
| | Mithila University, Bihar, India | | | |
| 04.15-05.20 PM | Tea and Poster Session | | | |
| TEC | TECHNICAL SESSION-6 (05.20 PM-06.45 PM), Chairpersons | | | |
| Dr. Vasudev Singh | | Dr. Manjoosha Srivastava | | |
| Emeritus Medical Scient | ist (ICMR, | Senior Scientist, | | |
| | Food Science and Nutrition, | CSIR-National Botanical Research | | |
| University of Mysore, M | ysore, India | Institute, Lucknow, India | | |
| Session Conveners: Dr. Amrita Srivastava & Dr. Ashok K. Singh, Department of Chemistry, | | | | |
| | University of Luckno | w | | |
| 05.20 PM-05.45 PM | Dr. Kikkeri Raghavendra, | Thinking Outside the Cells: How | | |
| IL-16 | Indian Institutes of Science | Heperan Sulfate Micro Heterogeneity | | |
| | Education and Research, Pune, | Control Cell Functions | | |
| | India | | | |
| 05.45 PM-06.10 PM | Dr. Jeyakumar Kandasamy, | Stereospecific Synthesis of C-Aryl | | |
| IL-17 | Department of Chemistry, | Glycosides via Heck Type Cross- | | |
| | IIT BHU, Varanasi, India | Coupling Reactions | | |
| 06.10 PM-06.35 PM | Dr. Ram Sagar Misra, | Regioselective Synthesis of Chirally | | |
| IL-18 | Department of Chemistry, Banaras | Enriched Tetrahydrocarbazolones and | | |
| | Hindu University, Varanasi, India | Tetrahydrocarbazoles | | |
| 06.35 PM-06.45 PM | Dr. Bhuwan B. Mishra, | Chemical Processing of Spent Aromatic | | |
| OP-5 | Center of Innovative and Applied | Biomass to Xylose, Levulinic Acid and | | |
| | Bioprocessing (CIAB), Mohali, | Lignin | | |
| | Punjab, India | | | |
| 07.15 PM-10.00 PM | Conference Dinner at Hotel Clarks Avadh, Lucknow | | | |

December 7, 2019

| TECHNICAL SESSION-7 (09.00 AM-10.40 PM), Chairpersons | | | |
|---|-----------------------------|--------------|--|
| Dr. Bijoy Kundu | | | Dr. Vineet Kumar |
| Former Chief Scientist, | | | Head and Scientist G, |
| CSIR-Central Drug research Institute, | | | Forest Research Institute, Dehradun |
| Lucknow, India | | | India |
| Session Conver | ners: Dr. Sangeeta Sriva | stav & Dr. 1 | N.K. Singh, Department of Chemistry, |
| | Univer | sity of Luck | now |
| 09.00 AM-09.35 AM | Dr. Rene Roy, Departm | ent of | Newer Synthetic Strategies and |
| PL-5 | Chemistry, Université di | u Québec à | Applications of Glycodendrimers |
| | Montréal, Canada | | |
| 09.35 AM-10.00 AM | Prof. A.J. Varma, | | Cellulose Chemistry: Applications in |
| IL-19 | CSIR-National Chemica | ıl | Nanoscience & Energy |
| | Laboratory, Pune, India | | |
| 10.00 AM-10.25 AM | Prof. Serge Mignani, | | Dendrimer-Enabling Therapeutic |
| IL-20 | Glycovax pharma, Deve | | Oligonucleotide Delivery Systems as |
| | scientifique, 424, Montréal | | Innovative Nanomedicine |
| | (Québec) H3J1S6, Cana | da | |
| 10.25 AM-10.40 AM | Dr. Anupam K. Srivast | | Challenges and Techniques involved in the |
| OP-6 | Mylan Laboratories ltd., | | Characterization of Carbohydrate based Bio |
| | Department of Bio-analy | | similars (Low Molecular weight Heparin |
| | Complex Analytics, Hyo | | like Enoxaparin, Daltaparin etc) |
| 10.40 AM-11.10 AM | TEA BREAK | | |
| | | | |

TECHNICAL SESSION-8 (11.10 AM-12.50 PM)
SELECTED POSTERS FOR ORAL PRESENTATION (SPP)
PANELIST: Prof. Richard R. Schmidt, Prof. David W. Gammon, Prof. Rene Roy, Prof. A.J. Varma,
Prof. K.P.R. Kartha, Dr. Manjoosha Srivastava

| 1 101. K.i .K. Katula, Di. Wanjoosha Siivastava | | | |
|---|--|--|--|
| 11.10 AM-11.20 AM | SPP-1 | | |
| 11.20 AM-11.30 PM | SPP-2 | | |
| 11.30 AM-11.40 PM | SPP-3 | | |
| 11.40 PM-11.50 PM | SPP-4 | | |
| 11.50 PM-12.00 PM | | P-5 | |
| 12.00 PM-12.10 PM | SP | P-6 | |
| 12.10 PM-12.20 PM | SP | P-7 | |
| 12.20 PM-12.30 PM | SP | P-8 | |
| 12.30 PM-12.40 PM | SP | P-9 | |
| 12.40 PM-12.50 PM | | P-10 | |
| | | | |
| 12.50 PM-02.00 PM | LUI | NCH | |
| 12.50 1 1/1 02.00 1 1/1 | | | |
| TE | CHNICAL SESSION-9 (02.00 PM-03.45 | 5 PM), Chairpersons | |
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| Dr. V. P. Sharma, | | Prof. Arun Sethi | |
| Senior Principal Scient | ist | Chemistry Department, University of | |
| Head, Quality Assuran | | Lucknow | |
| CSIR-Indian Institute of | of Toxicology Research, Lucknow, India | Lucknow | |
| Session Conve | ners: Dr. Indu Saxena & Dr. Abhinav K | Tumar, Department of Chemistry, | |
| | University of Lucknow | | |
| 02.00 PM-02.25 PM | Dr. Laurence Mulard, | Synthetic Oligosaccharide-Based | |
| IL-21 | Institut Pasteur, Unité de Chimie des | Conjugates as Promising Shigella | |
| | Biomolécules, Paris, France | Vaccine Candidates | |
| 02.25 PM-02.50 PM | Dr. Rajasekhara Reddy, | Synthesis of Sugar Based Ionic Liquids | |
| IL-22 | Department of Chemistry, | for Sustainable Societal Applications | |
| | VIT University, Vellore, India | | |
| 02.50 PM-03.15 PM | Dr. Christain M. Pedersen, | New Findings in Catalytic | |
| IL-23 | University of Copenhagen, | Glycosylations | |
| | Copenhagen, Denmark | | |
| 03.15 PM-03.30 PM | Dr. (Ms) Mahtab Z. Siddiqui, | Development and Antimicrobial | |
| OP-7 | Processing & Product Development | Evaluation of Acacia Nilotica Gum | |
| | Division, ICAR-IINRG, Ranchi, India. | Induced Silver Nanoparticles | |
| 03.30 PM-03.45 PM | Dr. Ravindra Pal Singh Structurally Diverse Pectin | | |
| OP-8 | (Ramalingaswami Re-entry fellow) Oligosaccharides with Prebiotic | | |
| | National Agri-Food Biotechnology Attributes | | |
| 00.45.05.04.00.00 | Institute (NABI), Mohali, India | | |
| 03.45 PM-04.00 PM | Dr. Nihar Ranjan, | A Fluorescent Aminosugarfor High- | |
| OP-9 | National Institute of Pharmaceutical | throughput Screening of Nucleic Acid | |
| | Education and Research, Raebareli, Binders | | |
| | India | | |
| 04.00 PM-04.15 PM | Tea | | |
| | | | |
| 04.15 PM-05.15 PM | Poster Award Ceremony and Valedictory Session | | |
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