



**Chemistry and Biology of Glycans**  
One-day Symposium  
Organized by Department of Chemistry IITB  
Convener: Prof. Suvarn S. Kulkarni  
November 24, 2025  
Venue: EMBA Hall, SOM, IIT Bombay, Mumbai, India



IT: Invited talk (30 Min); ST: Student talk (10 Min) including Q/A

10:30 AM-11:00 AM	Registration
11:00 AM-11:15 AM	Inauguration and Opening Remark by Prof. Santosh J. Gharpure
<b>Session 1</b> Chairperson: Prof. Nandita Madhavan	
11:15 AM-11:45 AM	<b>IT1: Prof. Carmen Galan</b> , University of Bristol, United Kingdom “Synthetic Glyco-Tools for Exploring and Exploiting the Glycome”
11:45 AM-12:15 PM	<b>IT2: Prof. Luca Unione</b> , CICbioGUNE, Spain “Probing Glycan Receptor Specificities of Human Flu Viruses by Chemoenzymatic Synthesis, NMR, Modelling, and Cell Biology”
12:15 PM-12:25 PM	<b>ST1: Cristina Fernández Pérez</b> , CICbioGUNE, Spain “Unravelling Viral Haemagglutinin Preferences to Host Glycans by Chemoenzymatic Synthesis and NMR”
12:25 PM-12:35 PM	<b>ST2: Criss Dcosta</b> , Indian Institute of Technology Bombay, India “Developing Potent Inhibitors to Resist Resistance”
12:35 PM-12:45 PM	<b>ST3: Anikleerthi L.M.</b> , Indian Institute of Technology, Bombay, India “Diastereoselective Gelation in ROMP Polymers from Sugar Cyclic Nitrones: Multifunctional Organogels for Adsorption and Insulation”
12:45 PM-02:30 PM	Lunch break/Networking
<b>Session 2</b> Chairperson: Prof. Pradeepkumar P. I.	
02:30 PM-03:00 PM	<b>IT3: Prof. Alexei V. Demchenko</b> , Saint Louis University, USA “New Methods For Chemical Glycosylation”
03:00 PM-03:30 PM	<b>IT4: Prof. Michaela Wimmerova</b> , Masaryk University, Brno, Czech Republic “Lectins in Host-Pathogen Interactions: Structure, Function, and Their Analytical Potential”

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<b>03:30 PM- 03:40 PM</b>	<b>ST4:</b> <b>Smriti Subir Mukherjee</b> , Indian Institute of Technology Bombay, India “Palindromic Redox-Sensitive Peptidic Anion Transporter that Promotes Healthy Breast Cells over Breast Cancer Cells”
<b>03:40 PM-03:50 PM</b>	<b>ST5:</b> <b>Dr. Archana A. Shirsat</b> , Indian Institute of Technology Bombay, India “Orthogonal Amide Coupling Strategy for Conjugation-Ready Trisaccharide of <i>Vibrio cholerae</i> O100”
<b>03:50 PM-04:20 PM</b>	<b>Tea break</b>
<b>Session 3</b> <b>Chairperson: Prof. Irishi N. N. Namboothiri</b>	
<b>04:20 PM-04:50 PM</b>	<b>IT5:</b> <b>Prof. Valentin Wittmann</b> , University of Konstanz, Germany “Chemical Tools for Glycobiology”
<b>04:50 PM-05:00 PM</b>	<b>ST6:</b> <b>Krishna S. Gupta</b> , Indian Institute of Technology Bombay, India “Lewis Acid-Promoted Hydroalkoxylation Reduction/Cycloaddition of Cyclopropenes: A Unified Route to Synthesize THF, THP, Oxaspirolactones and Spiroketals”
<b>05:00 PM-05:10 PM</b>	<b>ST7:</b> <b>Siddhesh Shewade</b> , Indian Institute of Technology Bombay, India “Targeting Phenylalanine tRNA Synthetase of the Malarial Parasite using Nucleosideamino Acid Conjugates”
<b>05:10 PM-05:20 PM</b>	<b>ST8:</b> <b>Dr. Aishwarya Shelke</b> , Indian Institute of Technology Bombay, India “Total Synthesis of Rare Sugar Containing Oligosaccharide Repeating Units of ESKAPE Pathogens”
<b>05:20 PM-05:30 PM</b>	<b>Closing remarks</b>
<b>05:30 PM-06:00 PM</b>	<b>High Tea</b>