



National Conference on Organic Chemistry (NCOC):

Academica-Industry Interface

23-24 December 2025



Day 1: 23rd December 2025

Venue: ICSR-TTJ Auditorium, IIT Madras

Program Schedule

09:00 AM – 09:30 AM	Inauguration
09:00 AM – 09:05 AM	Welcome Address by Convener, NCOC-2025
09:05 AM – 09:10 AM	Introductory Address by Head of the Department, Chemistry
09:10 AM – 09:20 AM	Inaugural Address by Director, IIT Madras
09:20 AM – 09:25 AM	Address by Prof. KKB
09:25 AM – 09:30 AM	Vote of Thanks by Co-Convener, NCOC-2025
09:30 AM – 11:00 AM	Session I Chair: 1 Prof. Indrapal Singh Aidhen
09:30 AM – 10:00 AM	PL-1 Prof. N. Jayaraman <i>Site-Specific Functionalizations of Native Carbohydrates and the Development of 3-Thiocresyl-1-Propenyl Glycosyl Donors</i>
10:00 AM – 10:20 AM	IL-1 Prof. N. D. Pradeep Singh <i>Wavelength-Selective Monochromophoric Photoremovable Protecting Groups for Tuning Soft Matter Material Properties</i>
10:20 AM – 10:40 AM	IL-2 Prof. Hotha Srinivas <i>Chemical Glycan Editing Tools</i>
10:40 AM – 11:00 AM	IL-3 Prof. Alakesh Bisai <i>Total Synthesis of Architecturally Complex Bioactive Natural Products</i>
11:00 AM – 11:30 AM	Tea/Coffee Break
11:30 AM – 1:00 PM	Session II Chair: 2 Prof. S. Baskaran
11:30 AM – 12:00 PM	PL-2 Dr. C. V. Ramana <i>Gold-Catalysis in Total Synthesis</i>
12:00 PM – 12:20 PM	IL-4 Dr. A. K. Mohanakrishnan <i>Synthesis and Biological Evaluation of Calothrixins and their De-oxygenated Congeners on Medicinal Chemist Perspective</i>



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12:20 PM – 12:40 PM	IL-5	Prof. T. Punniyamurthy	<i>Integrating Transition-Metal-Catalyzed Cascade Synthesis and C-H Functionalization for Constructing Medicinally Important Heterocycles</i>
12:40 PM – 01:00 PM	IL-6	Prof. Debasish Kuila	<i>Non-Thermal Plasma Assisted Polymer Upcycling</i>
01:00 PM – 03:20 PM	Lunch @ ICSR Dining Halls, Poster Presentation, and Group Photo		
03:20 PM – 04:30 PM	Session III	Chair: 3 Prof. Ravi P. Singh	
03:20 PM – 03:50 PM	PL-3	Dr. Rajappa Vaidyanathan	<i>Development of Robust, Sustainable Chemical Processes for the Rapid Delivery of Drug-Linkers</i>
03:50 PM – 04:10 PM	IL-7	Prof. Santanu Mukherjee	<i>Iridium-Catalyzed Enantioselective C–H Allenylation</i>
04:10 PM – 04:30 PM	IL-8	Prof. Nandita Madhavan	<i>Designer Macrocyclic Scaffolds for Ion and Water Transport</i>
04:30 PM – 05:00 PM	Tea/Coffee Break		
05:00 PM – 05:50 PM	Session IV	Chair: 4 Prof. K. Mangala Sunder	
05:00 PM – 05:20 PM	IL-9	Prof. Dattatraya H. Dethe	<i>Enantioselective Total Synthesis of Polycyclic Terpenoids: Strategies for Accessing Limonoids and Rearranged ent-Trachylobane Diterpenoids.</i>
05:20 PM – 05:30 PM	FP-1	Dr. Yadagiri Dongari	<i>Light Induced Reactivity of Diazoesters with Tertiary Amines via SET to Access N-Containing Heterocyclic Compounds</i>
05:30 PM – 05:40 PM	FP-2	Dr. Rajeshkumar	<i>Iodine-Mediated Strategies for C2/C3 Functionalization of Indole</i>
05:40 PM – 05:50 PM	FP-3	Dr. Parthasarathi S	<i>A Pd(0)-Catalyzed [3,3]–[4+2] Tandem Pericyclic Sequence Featuring Ring Deletion and Orthogonal Esterification</i>
07:00 PM – 10:00 PM	Dinner @ IITM Research Park (by invitation)		



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Day 2: 24th December 2025

Venue: ICSR-TTJ Auditorium, IIT Madras

Program Schedule

09:00 AM – 10:30 AM	Session V	Chair: 5 Prof. Sanjay Kumar
09:00 AM – 09:30 AM	PL-4	Prof. N. G. Ramesh
	<i>Synthetic Exploration on Glycals – From Methodology to Total Synthesis to Biological Applications</i>	
09:30 AM – 09:50 AM	IL-10	Prof. S. G. Srivatsan
	<i>Probing pathogenic nucleic acid motifs using functionalized nucleoside toolbox</i>	
09:50 AM – 10.10 AM	IL-11	Dr. Ariamala Gopalsamy
	<i>Beyond Boundaries: The Next Wave in Small Molecule Drug Modalities</i>	
10:10 AM – 10.30 AM	IL-12	Prof. Md. Mahiuddin Baidya
	<i>Transition Metal Catalysis towards C–H and C–C Bond Activation: From Biaryl Frameworks to Biorelevant Scaffolds</i>	
10:30 AM – 11:00 AM	Tea/Coffee Break	
11:00 AM – 12:00 PM	Session VI	Chair: 6 Dr. B. Gopalan
11:00 AM – 11:30 AM	PL-5	Dr. D. Srinivasa Reddy
	<i>Total Synthesis of Natural Products and Silicon-Incorporation Approach towards Drug Discovery</i>	
11:30 AM – 11:50 AM	IL-13	Prof. Sunitha Grandhee
	<i>The Atomic Precursors: Bridging Rasayana Shastra and Modern Chemistry</i>	
11:50 AM – 12:00 PM	FP-4	Dr. Sudam G Dawande
	<i>Relay of Silver/Amine Dual Catalysis: Highly Enantio- and Diastereo-selective Synthesis of Functionalized Dihydrocarbazoles (DHC) and Dihydroindolizines (DHI)</i>	



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12:00 PM – 12:50 PM	Session VII	Chair: 7 Prof. S. Sankararaman
12:00 PM – 12:20 PM	IL-14	Dr. Bhuvaneswari Sridhar
	<i>Scale up of Chemical Processes - Right First Time Concept</i>	
12:20 PM – 12:40 PM	IL-15	Dr. T. B. Subramanian
	<i>Drug Discovery – A Chemist's Perspectives</i>	
12:40 PM – 12:50 PM	FP-5	Dr. P. Gopinathan
	<i>Semisynthesis of Natural Product analogs: Focused library generation and its implications in biological activities</i>	
01:00 PM – 02:30 PM	Lunch @ ICSR Dining Halls,	
02:30 PM – 03:50 PM	Panel Discussion	Moderator: Dr. T. Ramasami
	<i>Academia-Industry Interface</i>	
	Members	
	Prof. H. Ila, Dr. B. Gopalan, Dr. T. Rajamannar,	
	Prof. Sunitha Grandhee, Dr. R. Brakaspathy	
03.50 PM – 04:20 PM	Tea/Coffee Break	
04:20 PM – 05:40 PM	Felicitation	
05:40 PM – 05:50 PM	Best Poster Prize Distribution by Prof. KKB	
05:50 PM – 06:00 PM	Concluding Remarks	
	National Anthem	
07:00 PM – 10:00 PM	Dinner @ ICSR dining Halls (by invitation)	