

INTERNATIONAL CONCLAVE 2025

Health & Environment through Interdisciplinary Approaches in Chemistry



25-27th November 2025



Department of Chemistry, SAS, Vellore Institute of Technology, Vellore

Dr. Giorgia Pastorin



**Design Of Pt(IV) Anticancer
Complexes, Screening In 3d
Spheroids And Delivery To
Animal Cancer Models**



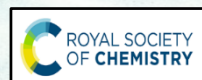
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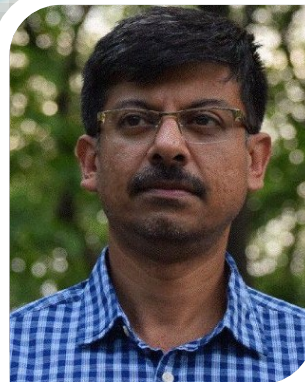


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Dr. Arindam Mukherjee



**Designing Smarter Metal Complexes:
Overcoming Cellular Sequestration
and Hypoxia Limitations in Cancer
Therapeutics**



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Professor Vito Ferro



**Chemical Tools for
Mucopolysaccharidosis Therapeutic
Development**



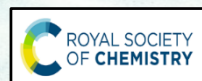
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Dr. Debayan Sarkar



**Rise of Tribromide Tools – Precision
Dearomatisation for 3D Molecular
Frameworks**



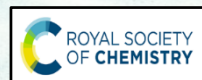
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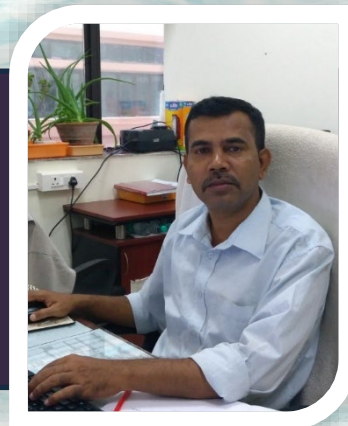


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Dr. Srikanta Patra



Cyclometalated Iridium Complexes
and Their Biological Aspects



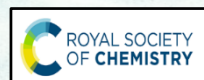
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Target-Based Screening,
Identification and Optimization of
Entry Inhibitors Targeting SARS-CoV-
2 Spike-ACE2 Interaction



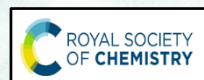
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Dr. Sayan Bhattacharyya



Contrasting Structures in the Art of
Electrocatalyst Design



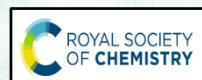
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Dr. Uttam Manna



Bio-inspired Wettability to Derive
Functional Interface



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Dr Rakesh Kumar Pathak



**Metal–Drug Conjugates:
Rediscovering the Dual Roles of
Metal Ions as Therapeutics and
Delivery Vehicles in Cancer Therapy**



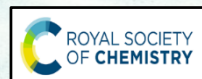
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Dr. Ekambaram Balaraman



**Sustainable Chemical Production via
Catalytic Dehydrogenation**



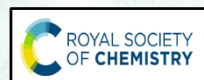
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Dr. Gouriprasanna Roy



**Biomimetic Studies on Metal
Detoxification**



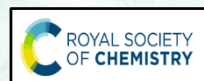
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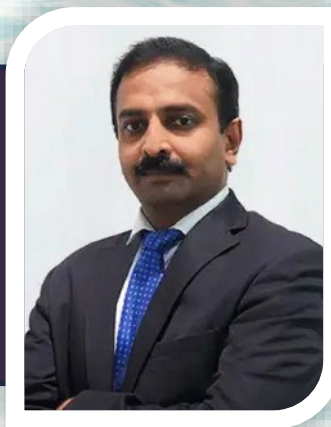


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Professor Chithirai Pon Selvan



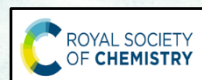
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Dr R Sankara Subramanian



**Design of Chemical Processes -
Efficiency, Safety &
Environment**



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Mr. Parijat Kundu



**Bridging the Genomic Data Tsunami:
From Scientific Discovery to Clinical
Action in Personalized Medicine**



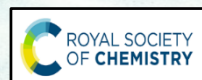
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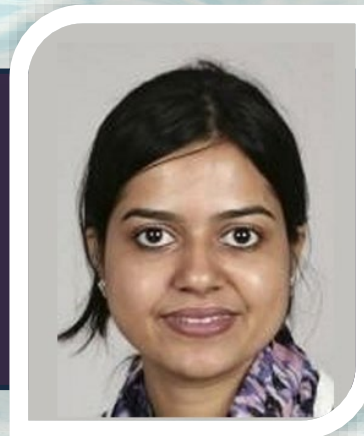


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Dr. Atreyee Banerjee



**Data-Driven Approaches for
Simplifying and Interpreting
Molecular Simulation Data**



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Nitrate/Nitrite Reduction to Nitric Oxide: A Biomimetic Modelling and Mechanistic Investigation



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Dr. Nagaraju Barsu



**Development of Sustainable
Methods; from Plastic to Fine
Chemicals**



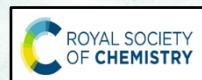
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Dr. Somnath Maji



**Bio-inspired Transition Metal
Complexes for Solar Fuel Generation**



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Dr. Sunandan Sarkar



Twist, Transfer, and Triplets: Tailoring
Molecular Luminescence through
Quantum-Chemical Approaches



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Dr. Kaushik Pal



Role of minuscule force in immune
cell-pathogen interactions



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Dr. Tamas Kumar Panda



**Mechanochemistry: An Opportunity
to do disorder Engineering in Metal
Organic Frameworks**



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Dr. Mrinmoy De



Selective Antibacterial activity of
Functionalized Nano-antibiotics



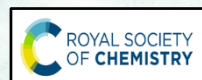
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Dr. Krishna Pada Bhabak



**Stimuli-responsive Turn-on
Fluorogenic Prodrugs of Anticancer
Drugs**



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Prof. Mukul Pradhan



**Sustainable Transformation of Waste
to Wealth for Energy Application**



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Dr. J. Madhavan



**Bismuth-based Semiconductor
Photocatalysts for Wastewater
Remediation**



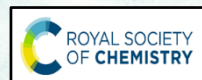
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Dr. Sovan Roy



Application of 3d-transition metal complexes of polypyridyl and Schiff base ligands as potential anticancer agents



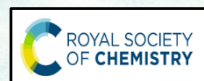
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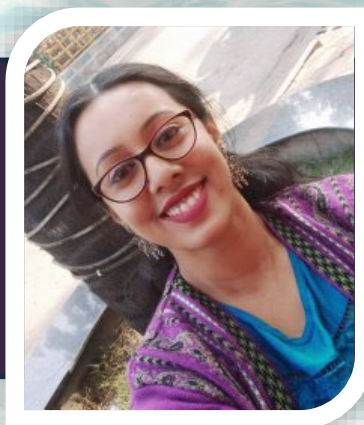


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Dr. Tamalika Ash



**Ab Initio Investigations Of
Zwitterionic Polymers And Their
Interactions With Water And Ice**



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Dr. S. Sabiah



**Metal(II) Complexes Derived from
NN & NS Based Donor Ligands:
Synthesis, Structure, Electrochemical
and Biomimetic Applications**



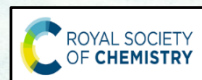
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Dr. Munmun Ghosh



**Proton Reduction by Iron Complexes:
Impact of Proton Residue
Concentration at Catalyst Sites**



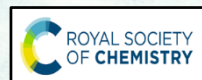
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Dr. Debasish Mandal



**AI/ML-Guided Design of Novel
Inhibitors Targeting FGFR Tyrosine
Kinase and KDM4C for Cancer
Therapy**



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Dr. Chandan Maity



Engineering Soft Materials via
Controlled Catalysis for Smart Health
and Sustainability Solutions



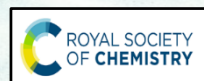
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Department of Chemistry, SAS, Vellore Institute of Technology, Vellore

Dr. Atanu Chakraborty



**Chemical Design Principles for Gene
Therapeutic Nanoparticles: Enabling
Immune Cell and Extrahepatic
Delivery of Nucleic acid**



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Dr. Rinku Chakrabarty



**Copper and Zinc Complexes of
Quinoline Based Flexible Amide
Receptor as Fluorescent Probe for
Dihydrogen Phosphate and Hydrogen
Sulphate and Their Biological
Application**



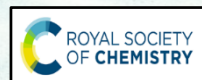
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