



An Interdisciplinary Approach to Biological Sciences

5th IABS, 6-8th February 2025

Indian Association for Cultivation of Sciences, Kolkata, India



Day 1 (6th February, 2025)

TIME	SESSION / LECTURE TITLE	SPEAKER
8:00-9:00	Registration (In front of MLS Hall) / Poster set up (Centenary Building 1st floor)	
9:00-9:30	Inaugural Session: by IACS Director, Dr. Arindam Banerjee (MLS HALL)	
Session 1: Cell Signalling 1, Chairs: Dr. Chandrima Shaha and Dr. Prasanta Kumar Das		
09:30-09:55	(L1) Epigenetic maneuvering is an emerging strategy of <i>M. tuberculosis</i> for its mycobacterial intracellular survival	Dr. Valakunja Nagaraja
09:55-10:20	(L2) Heterochromatin ensures kinetochore integrity and 3D genome assembly in the human fungal pathogen <i>Cryptococcus neoformans</i>	Dr. Kaustav Sanyal
10:20-10:45	(L3) Convergent and divergent determinants of heterogeneity, biomarkers, and plasticity in thoracic and prostate neuroendocrine tumors	Dr. Triparna Sen
10:45-11:10	(L4) Deciphering the Renal Consequences of Intravascular Hemolysis in Sickle Cell Disease	Dr. Samit Ghosh
11:10-11:30	Tea/ coffee Break (Adjacent to MLS Hall)	
Session 2: Cell Signalling 2, Chairs: Dr. Shunichi Takeda and Dr. Triparna Sen		
11:30-11:55	(L5) Coagulation proteases release extracellular vesicles from endothelial cells: their potential therapeutic effects in treating bleeding and inflammatory disorders	Dr. Vijaya Mohan Rao Lella
11:55-12:20	(L6) CHK1-mediated regulation of TOP1 catalytic activity suppresses replication and transcription-associated genomic instability	Dr. Birija Sankar Patro
12:20-12:45	(L7) Vascular view on spatial heterogeneity in Glioblastoma	Dr. Saran Kumar
12:45-13:10	(L8) Metabolic Control of Regulatory T Cell (Treg) Plasticity, Stability, and Functionality in the Tumor Microenvironment	Dr. Shilpak Chatterjee
13:10-13:35	(L9) CMTM6-driven membrane lipid remodeling modulates CMTM6-PD-L1 interactions and stabilizes PD-L1 by inhibiting lysosomal and proteasomal degradation	Dr. Prosenjit Sen
13:35-15:00	Lunch (Food Court)	
15:00-17:30	POSTER SESSION I + Tea/coffee (Centenary Building 1 st floor)	
Session 3: Cellular and Molecular Biophysics 1, Chairs: Dr. Vijaya Mohan Rao Lella and Dr. Valakunja Nagaraja		
17:30-17:55	(L10) Polymer models for chromatin domain structure and dynamics: Interplay between cohesin kinetics and polymer relaxation	Dr. P. B. Sunil Kumar
17:55-18:20	(L11) Proteolytic and non-proteolytic functions of MMP9 in cancer invasion	Dr. Shamik Sen
18:20-18:45	(L12) Building Computer and AI with Genetically Engineered Cell	Dr. Sangram Bagh
18:45-19:10	(L13) Receptor density dictates TNFR1 clusters' signaling efficacy	Dr. Deepak K. Sinha
19:10-22:00	Dinner (Food Court)	



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