



An Interdisciplinary Approach to Biological Sciences

5th IABS, 6-8th February 2025

Indian Association for Cultivation of Sciences, Kolkata, India



Day 2 (7th February, 2025)

TIME	SESSION / LECTURE TITLE	SPEAKER
Session 4: Chromatin Biology 1, Chairs: Dr. Srimontee Sarkar and Dr. P. B. Sunil Kumar		
9:00-9:25	(L14) Clinically-relevant doses of ATR inhibitors selectively target homology-directed repair	Dr. Shunichi Takeda
9:25-9:50	(L16) Discovery of third-generation inhibitors of nonhomologous DNA end joining and their relevance in cancer therapy	Dr. Sathees C. Raghavan
9:50-10:15	(L17) Role of RNF20 and RAD51 paralogs in replication stress responses and genome stability	Dr. Ganesh Nagaraju
10:15-10:40	(L18) Decoding disease: How DNA breaks lead to genomic instability	Dr. Benu Brata Das
10:40-11:00	Tea/ coffee Break (Adjacent to MLS Hall)	
Session 5: Chromatin Biology 2, Chairs: Dr. Chandrima Das and Dr. Arindam Banerjee		
11:00-11:25	(L19) Emerging roles of dynamic condensation by single-stranded DNA binding (SSB) proteins in bacterial and eukaryotic stress response	Dr. Mihály Kovács
11:25-11:50	(L20) Effect of heterozygosity on genetic recombination	Dr. Nishant KT
11:50-12:15	(L21) Mitochondrial quality control – in health and disease	Dr. Oishee Chakrabarti
12:15-12:40	(L22) The Winged Helix domain conformation is a critical determinant for the unwinding and strand annealing activities of human RECQ1 helicase	Dr. Agneyo Ganguly
12:40-13:05	(L23) Mitotic fidelity of cells confined between tissue fibers	Dr. Raja Paul
13:05-14:15	Lunch (Food Court)	
Session 6: Cellular and Molecular Biophysics 2, Chairs: Dr. Shamik Sen and Dr. Ganesh Nagaraju		
14:15-14:40	(L24) Recapping- a new hat to keep RNAs alive during stress	Dr. Chandrama Mukherjee
14:40-15:05	(L25) Organelles in Collective Cell Migration	Dr. Tamal Das
15:05-15:30	(L26) Covalent Magnetic Tweezers: A new window to explore biological mechanics	Dr. Shubhasis Haldar
15:30- 15:55	(L27) Enhanced Efficacy of Carbon Ion Radiotherapy Combined with PARP Inhibitor Olaparib in Targeting DNA Repair and Metastasis in NSCLC	Dr. Utpal Ghosh
15:55-16:20	Tea/ coffee Break (Adjacent to MLS Hall)	
16:20-16:45	(L28) Fuelling life: Synergy in mitochondrial proteins and lipids	Dr. Swasti Raychaudhuri
16:45-17:10	(L29) A novel approach to target cellular growth and migration	Dr. Siddhartha S Jana
17:30-22:00	Conference Dinner (Outside IACS)	



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