



# An Interdisciplinary Approach to Biological Sciences

5<sup>th</sup> IABS, 6-8<sup>th</sup> February 2025

Indian Association for Cultivation of Sciences, Kolkata, India



## Day 2 (7<sup>th</sup> February, 2025)

TIME	SESSION / LECTURE TITLE	SPEAKER
<b>Session 4: Chromatin Biology 1, Chairs: Dr. Srimontee Sarkar and Dr. P. B. Sunil Kumar</b>		
9:00-9:25	(L14) Clinically-relevant doses of ATR inhibitors selectively target homology-directed repair	Dr. Shunichi Takeda
9:25-9:50	(L15) Interleukin-1 Activation in Intratumor Immune Suppression is Telomere Dependent	Dr. Shantanu Chowdhury
9:50-10:15	(L16) Discovery of third-generation inhibitors of nonhomologous DNA end joining and their relevance in cancer therapy	Dr. Sathees C. Raghavan
10:15-10:40	(L17) Role of RNF20 and RAD51 paralogs in replication stress responses and genome stability	Dr. Ganesh Nagaraju
10:40-11:05	(L18) Decoding disease: How DNA breaks lead to genomic instability	Dr. Benu Brata Das
11:05-11:25	Tea/ coffee Break (Adjacent to MLS Hall)	
<b>Session 5: Chromatin Biology 2, Chairs: Dr. Dhrubojyoti Chattopahyay and Dr. Arindam Banerjee</b>		
11:25-11:50	(L19) Emerging roles of dynamic condensation by single-stranded DNA binding (SSB) proteins in bacterial and eukaryotic stress response	Dr. Mihály Kovács
11:50-12:15	(L20) Effect of heterozygosity on genetic recombination	Dr. Nishant KT
12:15-12:40	(L21) Mitochondrial quality control – in health and disease	Dr. Oishee Chakrabarti
12:40-13:05	(L22) The Winged Helix domain conformation is a critical determinant for the unwinding and strand annealing activities of human RECQ1 helicase	Dr. Agneyo Ganguly
13:05-13:30	(L23) Mitotic fidelity of cells confined between tissue fibers	Dr. Raja Paul
13:30-14:40	Lunch (Food Court)	
<b>Session 6: Cellular and Molecular Biophysics 2, Chairs: Dr. Shantanu Chowdhury and Dr. Ganesh Nagaraju</b>		
14:40-15:05	(L24) Endocytosis, actin and cellular stiffness – jamming neurodegeneration	Dr. Deepa Subramanyam
15:05-15:30	(L25) Organelles in Collective Cell Migration	Dr. Tamal Das
15:30-15:55	(L26) Covalent Magnetic Tweezers: A new window to explore biological mechanics	Dr. Shubhasis Haldar
15:55-16:20	(L27) Enhanced Efficacy of Carbon Ion Radiotherapy Combined with PARP Inhibitor Olaparib in Targeting DNA Repair and Metastasis in NSCLC	Dr. Utpal Ghosh
16:20-16:40	Tea/ coffee Break (Adjacent to MLS Hall)	
16:40-17:05	(L28) Fuelling life: Synergy in mitochondrial proteins and lipids	Dr. Swasti Raychaudhuri
17:05-17:30	(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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