

DAY	TIME	TITLE	SPEAKER	
1	8:00-9:00	<b>Registration/Poster set up</b>		
	9:00-9:30	<b>Inaugural Session : Keynote Talk</b> By IACS Director, Prof. Santanu Bhattacharya (MLS Hall)		
	<b>Session 1 : Chromatin dynamics and transcription; Chairs : Prof. Roland Kanaar and Prof. Andrés Aguilera (MLS Hall)</b>			
	Chromatin dynamics governs the genomic architecture that influence gene regulation and overall cellular function. Topoisomerases regulate the topological state of DNA by inducing transient single- (type I) or double- (type II) stranded breaks in DNA. This session will highlight recent advances in understanding the interaction between topoisomerase and DNA, genomic architecture and gene expression using approaches from genomics, biophysics, imaging and visualization			
	9:30-9:55	L1 : Recognition of DNA Supercoil Geometry by Type II Topoisomerases	Neil Osheroff, Vanderbilt University School of Medicine, USA	
	9:55-10:20	L2 : Exploiting DNA topoisomerase mechanism for drug targeting	Anthony Maxwell, John Innes Centre, UK	
	10:20-10:45	L3 : Topology - transcription nexus : probing the action of topoisomerases by their Achilles's heel	V Nagaraja, JNCASR and IISc, Bangalore, India	
	10:45-11:00	L4 : Shushing Histone Turnover : It's FUN protecting Genome and Epigenome	Nitika Taneja, Erasmus MC, Rotterdam, Netherlands	
	11:00-11:20	<b>Tea/Coffee Break (Adjacent to MLS Hall)</b>		
	11:20-11:45	L5 : TOP2B : the first thirty years	Caroline Austin, Newcastle University, UK	
	11:45-12:00	L6 : Positive regulation of transcription by human ZMYND8 through its novel association with P-TEFb complex.	Debabrata Biswas, IICB Kolkata, India	
	12:00-12:25	L7 : A prion-like propagation of loss-of-function phenotype of p53	Santanu K Ghosh, IIT, Bombay, India	
	12:25-12:50	L8 : Why cancer-A newer perspective on alternate splicing generating protein isoforms that modifies cellular functions.	Samit Chattopadhyay, IICB, Kolkata, India	
	12:50-13:15	L9 : Control of miRNA-mediated gene expression in mammalian cells by mitochondria	S N Bhattacharya, IICB, Kolkata, India	
	13:15-15:15	<b>Lunch (Food Court)</b>		
	13:15-17:30	<b>POSTER SESSION I + Tea/Coffee (Centenary Building)</b>		
	<b>Session 2 : Chromatin dynamics and DNA damage; Chairs : Prof. Dhrubajyoti Chattopadhyay and Prof. Giovanni Capranico (MLS Hall)</b>			
	Cells continuously experience DNA damage from exogenous and endogenous sources that endanger the stability of genomic architecture. DNA lesions are repaired through different pathways, which can be faithful or mutagenic, and the balance between them at a given locus must be strictly regulated to preserve genome stability. The consecutive two sessions, 3&4, will benefit DNA biologists who want to learn more about DNA damage and its repair mechanism			
17:30-17:55	L10 : Spatial organization of DNA repair within the nucleus	Evi Soutoglou, IGBMC, Strasbourg, France		
17:55-18:20	L11 : Epigenetic Reprogramming of the Telomerase Promoter in a G-quadruplex Dependent Fashion	Shantanu Chowdhury, IGIB, Delhi, India		
18:20-18:45	L12 : Stem cell factor MDF is critical for DNA damage repair	Tej K Pandita, Houston Methodist Hospital, USA		
18:45-19:10	L13 : The baker's yeast Msh4-Msh5 complex binds to DSB hotspots at a distance from the chromosome axis to promote meiotic crossing over	Nishant K. T., IISER, Trivandrum, India		
19:10-19:25	L14 : Atypical G protein β5 promotes cardiac oxidative stress and fibrotic remodeling in response to multiple cancer chemotherapeutics	Biswanath Maity, CBMR, Lucknow, India		
19:25-22:00	<b>Dinner (Food Court)</b>			
2	<b>Session 3 : DNA Damage and repair mechanisms; Chairs : Prof. Neil Osheroff and Prof. Evi Soutoglou (MLS Hall)</b>			
	9:00-9:25	L15 : Understanding R loop-mediated genome instability : a new role for histones and chromatin modifications	Andrés Aguilera, University of Seville, Spain	
	9:25-9:50	L16 : DNA topoisomerase I and R loops : is this true love ?	Giovanni Capranico, University of Bologna, Italy	
	9:50-10:15	L17 : Genetic cross-talk between DNA damage signalling and apoptosis regulates tissue homeostasis in <i>D. melanogaster</i>	B J Rao, TIFR, Bombay, India	
	10:15-10:40	L18 : MRN complex-dependent recruitment of ubiquitylated BLM helicase to DSBs negatively regulates DNA repair pathways	Sagar Sengupta, NII, Delhi, India	
	10:40-10:55	L19 : Remodeling of DNA replication forks- Implications in tumorigenesis and chemoresistance	Amah Ray Chowdhuri, Erasmus MC, Netherlands	
	11:00-11:20	<b>Tea/Coffee Break (Adjacent to MLS Hall)</b>		
	11:20-11:45	L20 : Cellular responses to DNA double strand breaks: Molecular mechanisms and clinical utility	Roland Kanaar, Erasmus MC, Rotterdam, Netherlands	
	11:45-12:10	L21 : Role of FANCD1 helicase in recombinational repair of DNA double-strand breaks	Ganesh Nagaraju, IISc, Bangalore, India	
	12:10-12:25	L22 : New regulators of DNA Topoisomerase I-induced DNA damage and repair	Benu Brata Das, IACS, Kolkata, India	
	12:25-12:45	<b>Meeting of the Poster Judges (CV Raman Hall) +</b>		
	12:25-14:00	<b>Lunch (Food Court)</b>		
	<b>Session 4 : Cancer development and therapy; Chairs : Dr. Asima Mukhopadhyay and Prof. Anthony Maxwell (MLS Hall)</b>			
	There has been a steady rise in studying novel mechanism behind cancer progression and its therapeutic approaches. One of the exciting new aspect of this field is improved characterization and understanding of the behavior of different cancer cells. The aim of this session is to provide detailed understanding the causes of cancer and its therapy			
	14:00-14:25	L23 : Exploiting Synthetic Lethality for Anti-Cancer Therapy	Nicola Curtin, Newcastle University, UK	
	14:25-14:50	L24 : RNFL26 and ATR/CHK1 inhibitor associated breast cancer therapy	Junran Zhang, Case western reserve University, USA	
	14:50-15:15	L25 : Epigenetic silencing of microRNA-338/-421 represents a novel mechanism for SPINK1-positive prostate cancer subtype	Bushra Ateeq, IIT Kanpur, India	
	15:15-15:35	L26 : Investigating Minimal Residual Disease in Acute Lymphoblastic Leukaemia	Krishnan Shekhar, TMC, Kolkata, India	
15:35-15:55	<b>Tea/Coffee Break (Adjacent to MLS Hall)</b>			
15:55-16:15	L27 : Viral oncoprotein manipulates autophagy to regulate its own stability and B-cell survival	Abhik Saha, Presidency University, Kolkata, India		
16:15-16:30	L28 : Role of Tissue Factor-Factor VIIa Complex in Breast Cancer Progression and Propagation	Prosenjit Sen, IACS, Kolkata, India		
16:30-22:00	<b>Conference Dinner (Outside IACS)</b>			
3	<b>Session 5 : Cell mechanics and molecular motors; Chairs : Prof. Biswadip Das and Prof. Caroline Austin (MLS Hall)</b>			
	Modern cell biology has made great impact in understanding cell structure and function. However, there is a third important aspect that is assembly-disassembly dynamics in three-dimensional micro-environment. How are these assembly-disassembly found within the cell? In two consecutive sessions, 5 & 6, we will explore the mechanism by which the dynamics are determined and regulated. This will be highly interdisciplinary with speakers whose interests range from physics and computation to biochemistry and cell biology			
	9:00-9:25	L29 : Structural Integrity of the Chromosome Segregation Apparatus Requires RNA-Methyltransferase Activity of CENP32	J.P. Arulanandam, University of Edinburgh, UK	
	9:25-9:50	L30 : An Activator of Master Epigenetic Enzyme, p300/CPB: Implications in Neural Disorders and Therapeutics	Tapas K. Kundu, JNCASR, Bangalore, India	
	9:50-10:15	L31 : DNA sequence versus chromosomal location - what defines the centromere!	Kaustuv Sanyal, JNCASR, Bangalore, India	
	10:15-10:30	L32 : Mapping membrane fluctuations to address heterogeneity in membrane mechanics	Bidisha Sinha, IISER, Kolkata, India	
	10:30-10:45	L33 : Differential actomyosin contractility in tumorigenicity	Siddhartha S Jana, IACS, Kolkata, India	
	10:45-11:05	<b>Tea/Coffee Break (Adjacent to MLS Hall)</b>		
	11:05-11:20	L34 : 3D microenvironment regulate adhesion to induce monocyte to macrophage differentiation	Deepak K Sinha, IACS, Kolkata, India	
	11:20-11:45	L35 : Molecular dynamics at spindle-kinetochore interface	Tapas K Manna, IISER, Trivandrum, India	
	11:45-12:00	L36 : Probing and visualizing cellular dynamics and neural regeneration	Akash Gulyani, InStem, Bangalore, India	
	<b>Session 6: Computational Biology; Chairs : Prof. Sharmila Sengupta and Dr. Arnab Ray Chowdhuri (MLS Hall)</b>			
	12:05-12:30	L37 : Hofmeister Effects on Protein Folding	Govardhan Reddy, IISc, Bangalore, India	
	12:30-12:55	L38 : Understanding protein folding and dynamics using computational methods	Shachi Gosavi, NCBS, Bangalore, India	
	12:55-13:10	L39 : Molecular origin of the weak susceptibility of kinesin velocity to loads and its relation to the collective behavior of kinesins	Biman Jana, IACS, Kolkata, India	
	13:10-13:25	L40 : Golgi size regulation guided by a density-dependent maturation model	Raja Paul, IACS, Kolkata, India	
	13:25-15:35	<b>Lunch (Food Court) + POSTER SESSION II (Centenary Building 1st floor)</b>		
	15:35-15:50	<b>Sponsor Talk : Bio Rad (MLS Hall)</b>		
15:50-16:00	<b>Sponsor Talk (MLS Hall)</b>			
16:00-17:00	<b>Poster Prize and Concluding Session and High Tea</b>			