



# International Symposium on Mitochondria, Cell death and Human Diseases: Frontiers in Cancer Research

17 - 18 February 2025

School of Life Sciences, Jawaharlal Nehru University, New Delhi

Start	End	Session	Description	Name	Details	Title
<b>Day 1: 17 February, 2025</b>						
8:00	9:00	Registration/Helpdesk				
8:55	10:00	<b>Session 1: Inaugural Session</b>				
8:55	9:05		Lamp Lighting & Welcome address	Prof. Rana P.Singh	Convener of the Symposium, School of Life Sciences, JNU, New Delhi, India	
9:05	9:10		Address	Prof. Supriya Chakraborty	Dean, School of Life Sciences, JNU, New Delhi, India	
9:10	9:15		Address	Prof. Rajesh Agarwal	Department of Pharmaceutical Sciences, University of Colorado Denver, Aurora, USA	
9:15	9:20		Address	Prof. Raymond B.Birge	Rutgers School of Biomedical and Health Sciences, Newark, New Jersey, USA	
9:20	9:25		Address	Prof. Dhyan Chandra	Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA	
9:25	9:35		Inaugural Address	VC/Rector	VC/Rector, Jawaharlal Nehru University, New Delhi, India	
9:35	9:40		Vote of Thanks	Prof. Paulraj Rajamani	School of Environmental Sciences, JNU, New Delhi, India	
9:40	10:00	Tea/Coffee Break				

10:00	11:45	<b>Session 2:</b> Chairs: Prof. Rajesh Agarwal, USA & Prof. C.V. Rao, USA				
10:00	10:30		<b>Keynote Speaker</b>	Prof. Jerry Chipuk	Icahn School of Medicine at Mount Sinai, NY, USA	A Gated Hydrophobic Funnel within BAX Binds Long-Chain Alkenals to Potentiate Pro-Apoptotic Function
10:30	10:55		Speaker 2 (Plenary)	Prof. Raymond B. Birge	Department of Microbiology, Biochemistry, and Molecular Genetics, Rutgers School of Biomedical and Health Sciences, Newark, New Jersey, USA	Phosphatidylserine Exposure, Stress, And Cell Death: Immune Regulation in Cancer
10:55	11:20		Speaker 3 (Plenary)	Prof. Pankaj K. Singh	Department of Oncology Science, The University of Oklahoma College of Medicine, Oklahoma, USA	Metabolic Combination Therapies Against Pancreatic Cancer
11:20	11:45		Speaker 4 (Plenary)	Prof. C.V. Rao	Center for Cancer Prevention and Drug Development, PC Stephenson Oklahoma Cancer Center, OUHSC, Oklahoma City, USA	Combinational Targeting of TRAIL Signaling with Anti-Inflammatory Agent, Naproxen in FAP-Colorectal Cancer Models
<b>Break</b>						
11:55	13:05	<b>Session 3</b> Chairs: Prof. R.K. Kale, India & Prof. Ajay Saxena, India				
11:55	12:20		Speaker 5 (Plenary)	Prof. Rajesh Agarwal	Dept of Pharmaceutical Sciences, University of Colorado Denver, Aurora, USA	Targeting Pancreatic Cancer Stemness and Metabolism by Bitter Melon Juice
12:20	12:45		Speaker 6 (Plenary)	Prof. Sanjay Malhotra	School of Medicine, Oregon Health and Science Centre, USA	Targeting Enolase Enzyme to Stop Cancer Progression
12:45	13:05		Speaker 7	Prof. Subhrajit Saha	Department of Radiation Oncology, The University of Kansas Medical Center Kansas City, Kansas, USA	Mitochondria Targeted Metabolic Reprograming to Regulate Intestinal Stem Cell Radiosensitivity
13:05	14:00	<b>Lunch Break</b>				

14:00		15:45		<b>Session 4</b> Chairs: Prof. Rupesh Chaturvedi, India & Prof. Shivendra V. Singh		
14:00	14:25		Speaker 8 (Plenary)	Prof. Shivendra Singh	University of Pittsburgh Cancer Institute, Hillman Cancer Center Research Pavilion, Pittsburgh, PA, USA	Prevention of Bone Metastasis of Breast Cancer
14:25	14:45		Speaker 9	Prof. Neel Sarovar Bhavesh	International Centre for Genetic Engineering and Biotechnology, New Delhi, India	Molecular Mechanism of Proto-Oncogene C-Myc Promoter Recognition by Human RBMS1 Protein
14:45	15:05		Speaker 10	Prof. Benu Brata Das	School of Biological Sciences, Indian Association for the Cultivation of Science Kolkata, India	Protein Arginine Methyltransferase (PRMT5): Facilitating Repair of Trapped Topoisomerase 1-DNA Covalent Complexes
15:05	15:25		Speaker 11	Dr. Niti Puri	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Therapeutic Potential of Mast Cells and their Mediators in Curtailing Cancer Stem Cells Within Lymphoid Neoplasms
15:25	15:45		Speaker 12	Prof. Alo Nag	Department of Biochemistry, Delhi University, New Delhi, India	Targeting FOXM1 to Activate Apoptosis: Innovations for Effective Cancer Therapy
15:45	16:05	<b>Tea Break</b>				
16:05		17:50		<b>Session 5</b> Chairs: Prof. Rajeev Varshney, India & Prof. Paulraj Rajamani, India		
16:05	16:30		Speaker 13 (Plenary)	Prof. Xiaolin Zi	School of Medicine, University of California, Irvine, USA	Atpase Copper Transporting Beta (ATP7B) Is A Novel Target for Improving the Therapeutic Efficacy of Docetaxel by Disulfiram (DSF)/Copper in Human Prostate Cancer
16:30	16:50		Speaker 14	Prof. Ashok Kumar	Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy University of Houston, Houston, USA	ER Stress and Unfolded Protein Response in the Regulation of Skeletal Muscle Mass During Cancer Cachexia
16:50	17:10		Speaker 15	Dr. Benny A. Kaiparettu	Baylor College of Medicine, Houston, Texas, USA	Biguanides Antithetically Regulate Tumor Properties by the Dose-Dependent Mitochondrial Reprogramming-Driven C-Src Pathway
17:10	17:30		Speaker 16	Dr. P. Sundaresan	Dept of Genetics, Aravind Medical Research Foundation, Tamil Nadu, India	Exploring Mito-Nuclear Genetic Factors in Leber's Hereditary Optic Neuropathy: Insights

					Aravind Eye Hospital, Madurai, India.	from Comprehensive Profiling of Unique Cases
17:30	17:50		Speaker 17	Dr. Sujit K. Bhutia	Department of Life Science, National Institute of Technology, Rourkela, India	Targeting PPA2 Dependent Mitochondrial Fission Triggers Cisplatin Sensitivity in Oral Squamous Cell Carcinoma

<b>17:50</b>	<b>18:50</b>	<b>Session 6: Oral presentations- Young Scientists Award Presentations</b>				
<b>Chairs: Prof. Rakesh Tyagi, India, Prof. Girish Sharma, India, Prof. Ajay Gupta, India &amp; Prof. Dhyana Chandra, USA</b>						
17:50	18:00		Speaker 18- Young Faculty 1	Dr. Koyeli Mapa	Department of Life Sciences, Shiv Nadar Institution of Eminence, Delhi-NCR, India	Differential Stress Response by Sub-Mitochondrial Compartments during Proteotoxic Stress
18:00	18:10		Speaker 19- Young Faculty 2	Dr. Arpit Dheeraj	School of Medicine, Oregon Health and Science University, Portland, USA	YB-1 - A Promising Therapeutic Target to Combat Cancer Progression
18:10	18:20		Speaker 20- Young Faculty 3	Dr. Akhilendra Kumar Maurya	Department of zoology, Institute of Science, Banaras Hindu University, Varanasi, India	Ulcerative Colitis to Colon Cancer: Molecular Interplay between NOX and Oxidative Stress
18:20	18:28		Speaker 21- Young Researcher- 1	Sabita Chourasia	Department of Immunology and Regenerative Biology, Weizmann Institute of Science, Israel	Mitochondrial MTCH2: From Apoptosis, through Metabolism and up to Obesity
18:28	18:36		Speaker 22- Young Researcher- 2	Deepali Mishra	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Berberine Enhances Radiosensitivity of Head And Neck Squamous Cell Carcinoma Cells by Inhibiting DNA Repair and Stemness and attenuates Tumor Growth
18:36	18:44		Speaker 23- Young Researcher- 3	Meenakshi Kandpal	Dept of Biosciences and Biomedical Engineering, Indian Institute of Technology Indore, MP, India	Mitochondrial Dysregulation in Helicobacter pylori Infection: A Molecular Nexus Linking Gut Microbiota and Neurological Pathologies
18:44	18:52		Speaker 24- Young Researcher- 4	Preetha Ganguly	Department of Biochemical Engineering and Biotechnology, IIT-Delhi, New Delhi India	Bioinspired Fluorescent Janus Nanomotors: Targeted Drug Delivery and Point-of-Care Detection for Triple-Negative Breast Cancer
<b>19:00</b>	<b>21:00</b>	<b>Dinner</b>				
<b>End of Day 1</b>						



**International Symposium on  
Mitochondria, Cell death and Human Diseases:  
Frontiers in Cancer Research  
17 – 18 February 2025**

School of Life Sciences, Jawaharlal Nehru University, New Delhi

Start	End	Session	Description	Name	Details	Title
<b>Day 2: 18 February, 2025</b>						
8:00	9:00	Registration/Helpdesk				
9:00	10:40	<b>Session 7: Chairs: Prof. Dhyan Chandra, USA &amp; Prof. Alok Chandra Bharti, India</b>				
9:00	9:20		Speaker 25	Dr. Komal Raina	South Dakota State University, Brookings, South Dakota, USA	Differential Impact of Prevention and Therapeutic Strategies of Metformin on Aberrant Metabolic Signals/ Molecular Signatures Associated with TNBC Growth and Progression
9:20	9:40		Speaker 26	Prof. Ritu Kulshreshtha	Department of Biochemical Engineering and Biotechnology, IIT Delhi, New Delhi, India	Decoding The Role and Clinical Relevance of the Non-Coding RNAs in Cancer
9:40	10:00		Speaker 27	Dr. Lokendra Kumar Sharma	Department of Molecular Medicine & Biotechnology, Sanjay Gandhi Post Graduate Institute of Medical Science (SGPGIMS), Lucknow, India	Interfering with Mitochondrial Dynamics: A Potential Approach to Overcome Stemness and Chemoresistance in Glioblastoma
10:00	10:20		Speaker 28	Prof. Alok Chandra Bharti	Department of Zoology, Delhi University, New Delhi, India	Advancing Precision Medicine in Clinical Management of Cervical Cancer: Development of a “Multi- Marker Immuno-Flowcytometry Spike-in Protocol” for In vitro Detection of CTCs
10:20	10:40		Speaker 29	Prof. Avinash Bajaj	Regional Centre for Biotechnology, Faridabad, Delhi-NCR, India	Targeting of Triangular Neuron-Cancer-Immune Cell Cross-Talk Using Engineered Biomaterials.
10:40	11:00	Tea/Coffee Break				

11:00	12:25	<b>Session 8:</b> <b>Chairs: Prof. Rajesh Sharan, India &amp; Dr. Niti Puri, India</b>				
11:00	11:25		Speaker 30 (Plenary)	Prof. Dhyan Chandra	Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA	Mitochondrial Unfolded Protein Response in Neuroendocrine Prostate Cancer
11:25	11:45		Speaker 31	Dr. Siddesh Aras	Center for Molecular Medicine and Genetics, Department of Obstetrics and Gynecology, Department of Oncology, Wayne State University School of Medicine, USA	MNRR1 In Triple Negative Breast Cancers, A Therapeutic Trifecta
11:45	12:05		Speaker 32	Prof. Shilpee Dutt	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Identification of Molecular Switch for Therapy-Induced Senescence in GBM: A Key To Seno-Therapy.
12:05	12:25		Speaker 33	Dr. Sudipta Basu	Discipline of Chemistry, IIT-Gandhinagar, Gujarat, India	Powerhouse targeted small molecule-mediated chemo-photodynamic therapy induces apoptosis in cancer cells
12:25	14:30	<b>Session 9: Poster Presentation: Chairs -Dr. Vijay Rawat; Dr. Ashu Bhan Tikku; Dr. Niti Puri; Dr. Pramod Gautam; Prof. Girish &amp; Prof. Ajay Gupta, India &amp; Lunch Break</b>				
14:30	15:55	<b>Session 10:</b> <b>Chairs: Prof. Praveen Verma, India &amp; Prof. Binay R Panda, India</b>				
14:30	14:55		Speaker 34 (Plenary Speaker)	Prof. Beverly Wang	Professor, School of Medicine, University of California, Irvine, USA	Sinonasal Mucosal Melanoma Updates: Clinicopathological and Molecular Analysis to Approach Diagnosis and Treatment
14:55	15:15		Speaker 35	Dr. Ashu Bhan Tikku	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Methylglyoxal-Induced Advanced Glycation End Products: Implications in Carcinogenesis and Therapy
15:15	15:35		Speaker 36	Prof. Ajay Kumar Saxena	School of Life Sciences, Jawaharlal Nehru University, New Delhi, India	Structural and Functional Analysis of Cancer Related Oncoproteins: A Critical Target for Drug Development

15:35	15:55		Speaker 37	Prof. Chandi C. Mandal	Department of Biochemistry, Central University of Rajasthan, Rajasthan, India	Curbing Cholesterol Metabolism to Block DNMT1 Associated Epigenetic and Genetic Changes in Breast Cancer
15:55	16:15	Tea Break				
16:15	18:15	<b>Session 10</b> <b>Chairs: Prof. Umesh C.S. Yadav, India &amp; Prof. Rajesh Gachhe, India</b>				
16:15	16:35		Speaker 38	Dr. Swasti Rayachadhuri	CSIR- Centre for Cellular and Molecular Biology Hyderabad, Telangana, India	Diversity of Targeting: Mitochondrial Protein Import, Turnover, and Assembly
16:35	16:55		Speaker 39	Prof. Rajesh Gachhe	Department of Biotechnology, Savitribai Phule Pune University, Maharashtra, India	Dietary Flavonoids Induced Epigenetic Alterations in TNBC
16:55	17:15		Speaker 40	Prof. Sarad Mishra	Department of Biotechnology, DDU Gorakhpur University, Gorakhpur, Uttar Pradesh, India	Exploration of Enzymatic Markers in Pesticide Exposed Cancer Occurrence in Terai Belt of Uttar Pradesh
17:15	17:35		Speaker 41	Prof. Shama Prasada K.	Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka, India	Double C-2 Like Domain Beta (DOC2B) Elevates Intracellular Ca <sup>2+</sup> Flux to Promote Lipotoxicity and Mitochondrial Dysfunction in Cervical Cancer
17:35	17:55		Speaker 42	Dr. Akash Sabarwal	Harvard Medical School, Boston Children's Hospital, Boston, USA	Mechanisms and Strategies to Overcome Therapeutic Resistance to Clinically Approved C-Met Inhibitors in Renal Cancer
17:55	18:15		Speaker 43	Dr. Pramod Gautam	Department of Biochemistry, All India Institute of Medical Sciences (AIIMS), New Delhi, India	Role of Exosomal microRNAs in Tumorigenesis and Progression of Pancreatic Cancer
18:15	19:00	<b>Session 12: Valedictory Session</b> <b>Chair: Prof. Rana P. Singh</b>				
		<b>Award Distribution and Concluding Remarks</b>				
19:00	21:00	<b>Dinner</b>				
<b>End of Day 2</b>						