



Program Schedule
Venue: Dr. J. C. Ray Auditorium, CSIR-IICB



Day-1, December 03, 2025 (Wednesday)

08:30-09:30		Registration
		Inaugural Session
09:30-09:40		Welcome Address, Introduction of Guests, Lighting of the Lamp
09:40-09:50		Opening Remarks by Prof. Vibha Tandon , Director, CSIR-IICB
09:50-10:00		About SFRR by Dr. Soumyakanti Adhikari , President, SFRR-India
10:00-10:10		Special Address by Dr. Santosh Sandur , Vice President, SFRR-India
10:10-10:20		Address by Guest of Honour: Prof. Gobardhan Das , Director, IISER Bhopal
10:20-10:30		Address by Guest of Honour: Prof. Sudeep Gupta , Director, Tata Memorial Centre, Mumbai
10:30-11:00		Address by Chief Guest: Prof. P. Balaram , Senior Visiting Professor, NCBS and Former Director, IISc, Bengaluru
11:00-11:05		Title: Redox Biochemistry Before and After Oxygen
11:05-11:30		Vote of Thanks by Dr. Nakul C. Maiti , Chief Scientist & Secretary, ICRB-IHD 2025
		High Tea
Session 1		Cancer Signaling, Tumor Resistance & Therapeutics (Chairperson: Dr. Chandrima Shaha & Dr. Mrinal Kanti Ghosh)
KL-1	11:30-12:10	Prof. Sudeep Gupta , Tata Memorial Centre, Mumbai Title: Clinical and translational research in breast and gynecological cancers
IL-1	12:10-12:35	Prof. Ajay Singh , University of Mississippi Medical Center, USA Title: Rewiring the hypoxia response: A novel role for MYB in pancreatic cancer
IL-2	12:35-13:00	Prof. Rana P. Singh , Gautam Buddha University, Greater Noida Title: Radiosensitization mechanisms of phytochemicals and their role in DNA damage response
13:00-14:30		Lunch & Poster presentation (P-1 to P-40)
Session 2		Radiation Biology & Oncology (Chairperson: Dr. Vijay K. Kutala & Dr. Debabrata Biswas)
IL-3	14:30-14:55	Dr. Pritha Ray , ACTREC-TMC, Mumbai Title: Therapeutic implications of distinct and differential modulation of oncogenic signalling pathways by mutants of p53 in chemoresistant ovarian and gastric cancer
IL-4	14:55-15:20	Dr. Rahul Checker , BARC, Mumbai Title: Mitochondrial ROS-driven proteotoxic stress: uncovering LONP1 and CLPP as vulnerabilities in Triple-Negative breast cancer
IL-5	15:20-15:45	Dr. Sheetal Uppal , BARC, Mumbai Title: Switching the gene code: BRD4 degradation unlocks radiosensitization through alternative splicing in breast cancer
IL-6	15:45-16:10	Dr. Amit K. Srivastava , CSIR-IICB, Kolkata Title: The role of translesion DNA synthesis in chemoresistance and its potential as a therapeutic target
16:10-16:30		Tea/Coffee break
Session 3		Oxidative Stress in Development and Disease

		(Chairperson: Dr. Kausthabh Maiti & Dr. Apurba K. Sau)
IL-7	16:30-16:55	Prof. Amit Singh, IISc, Bengaluru Title: Bioenergetic crosstalk between host and pathogen mediates drug tolerance in Mycobacterium tuberculosis
IL-8	16:55-17:20	Prof. Suvro Chatterjee, University of Burdwan Title: Dietary nitric oxide shields embryonic development from teratogenic assaults
IL-9	17:20-17:45	Dr. Piyali Mukherjee, Presidency University, Kolkata Title: ROS–PARP1 axis orchestrates HMGB1 nuclear exit and subsequent G2/M arrest in rotenone-induced neurotoxic stress
AGM* SFRR	18:00-19:00	*Annual General Meeting of SFRR-India in the Director’s conference room, CSIR-IICB
19:00 onwards		Dinner
Day-2, December 04, 2025 (Thursday)		
Session 4	Redox-Mediated Epigenetic Regulation in Development and Disease (Chairperson: Dr. Sib Sankar Roy & Dr. Partha Chakrabarti)	
KL-2	09:30-10:10	Prof. Utpal Banerjee, UCLA, USA Title: Metabolism drives pre-implantation development in mammalian embryos
IL-10	10:10-10:35	Prof. Sanjeev Shukla, IISER Bhopal Title: A hypoxia-induced epigenetic-splicing axis promotes invasion in breast cancer
IL-11	10:35-11:00	Dr. Vijay P. S. Rawat, JNU, New Delhi Title: Remodeling the epigenetic landscape: TET DNA demethylases as drivers of cancer and promising therapeutic targets
11:00-11:20		Tea/Coffee break
Session-5	Redox Stress, Immunotherapeutics and Inflammation (Chairperson: Dr. K.M. Ramkumar & Dr. Umesh Prasad Singh)	
IL-12	11:20-11:45	Dr. Ellora Sen, BRIC-NBRC, Manesar Title: Redox landscape affects chemosensitivity: Lessons learnt for IDH mutant Glioblastoma
IL-13	11:45-12:10	Prof. Md. Zahid Ashraf, JMI, New Delhi Title: Platelet-Monocytes Crosstalk Orchestrate Thrombo inflammation
IL-14	12:10-12:35	Dr. Shilpak Chatterjee, CSIR-IICB, Kolkata Title: S1P–S1PR1 Axis Drives CD8 ⁺ T Cell Dysfunction in the Tumor Microenvironment
IL-15	12:35-13:00	Dr. Sachin Kumar, CSIR-CDRI, Lucknow Title: Nitric Oxide- Redox Signalling in Hematopoiesis and BM Regeneration
13:00-14:30		Lunch & Poster presentation (P-41 to P-80)
Session 6	Mitochondrial Quality Control and Disease Biology (Chairperson: Dr. Srinivas Oruganti & Dr. Joy Chakraborty)	
IL-16	14:30-14:55	Prof. Subhrajit Saha, The University of Kansas Cancer Centre, USA Title: Mitochondrial fate and metabolism in radiosensitivity of tissue stem cells
IL-17	14:55-15:20	Prof. Oishee Chakrabarti, SINP, Kolkata Title: Mitochondrial shape and size defines its function
IL-18	15:20-15:45	Prof. Jagneshwar Dandapat, Utkal University, Bhubaneswar Title: Redox immune epigenetic triad in PTU-induced hypothyroid rat: An integrated biological loop crucial for health and disease
IL-19	15:45-16:10	Prof. Biswanath Maity, Bose Institute, Kolkata Title: G protein regulators: Integrator of redox-sensitive cellular responses

16:10-16:30		impacting vital organ communication	
		Tea/Coffee Break	
Parallel Session: 7A & 7B			
16:30 -18:00			
Session: 7A Young Investigator Award Presentations (10 min each) Venue: 2 nd Floor Seminar Room (Chairperson: Dr. Snehasikta Swarnakar, Dr. Sanjit Dey & Dr. Sourish Ghosh)		Session: 7B Oral Presentations (15 min each) Venue: Dr. J.C. Ray Auditorium (Chairperson: Dr. Syamal Roy and Dr. Tanaya Bose)	
YIA-1	Umar Khalid Khan , IIT Kanpur Title: DKC1 potentiates colorectal cancer progression and chemoresistance by perturbing sphingolipid biosynthesis	OP-1	Dr. Anup Majumdar , BRIC–NIBMG, Kalyani Title: Dynamic interaction of MYC enhancer RNA with YEATS2 protein regulates MYC gene transcription in pancreatic cancer
YIA-2	Leena Saini , JNU, New Delhi Title: Tumor-suppressive role of MUC7 in oral squamous cell carcinoma: Induction of mesenchymal-to-epithelial transition and enhanced therapeutic response	OP-2	Dr. Ananthalakshmy Sundararaman , BRIC-RGCB, Thiruvananthapuram Title: Beyond quality control: Emerging roles of mitochondria-derived vesicles in the heart
YIA-3	Raviranjana Pandey , IISER, Kolkata Title: Developing and characterising novel small molecules for the therapy of Wilson disease: Addressing Copper Overload and Redox Imbalance	OP-3	Dr. R. S. Patwardhan , BARC, Mumbai Title: Precision oncology in lung cancer: Progress and promise of Nrf2 targeted therapeutics
YIA-4	Arijit Nandy , CSIR-IICB, Kolkata Title: Dynamic partitioning of a critical elongation factor between SEC and LEC regulates cellular mRNA and snRNA transcription in a context dependent manner	OP-4	Dr. Ashutosh Shrivastava , King George's Medical University, Lucknow Title: Mitochondrial metabolic reprogramming and NRF2/KEAP1-regulated antioxidant pathways drive Temozolomide resistance in Glioblastoma Multiforme
YIA-5	Anusree Dey , BARC, Mumbai Title: RNASEH1-associated splicing programs define prognostic signatures in breast and uterine cancers	OP-5	Dr. Janaki Ramaiah M , VIT, Vellore Studies on DPP IV inhibitor mediated anticancer effects in PDAC cancer via in vitro and network pharmacology
YIA-6	Yukta S. , SRM Institute of Science and Technology, Kattankulathur Title: Bisphenol-A-induced endothelial dysfunction mediated by oxidative stress-driven ferroptosis and Nrf2 inhibition.	OP-6	Prof. Rambir Singh , Mizoram University, Aizawl Title: Morphological, phytochemical, antioxidant, and antiproliferative studies on <i>Paris polyphylla</i> collected from Mizoram and Arunachal Pradesh
YIA-7	Suman Mandal , IACS, Kolkata Title: Piezoelectric stimulation of cellular redox pathways: A bridge between materials and mitochondrial biology		
19:00 onwards		Banquet Dinner	

Day -3, December 05, 2025 (Friday)		
Session 8		AI/ML in Redox Biology & Medicine (Chairperson: Dr. Sucheta Tripathy & Dr. Manish Debnath)
IL-20	09:30-09:55	Prof. Pralay Mitra , IIT Kharagpur Title: Accelerated Artificial Intelligence in neopeptide discovery
KL-3	09:55-10:25	Prof. Avinash C. Pandey , Inter-University Accelerator Centre, New Delhi Title: Heavy ion irradiation-based radiation biology research at IUAC: Addressing the challenges from space missions to agriculture
IL-21	10:25-10:50	Prof. U. Deva Priyakumar , IIIT Hyderabad Title: Generative AI/ML methods for drug discovery
IL-22	10:50-11:15	Prof. Debarka Sengupta , IIIT-Delhi Title: Cancer research in the age of AI and agents
11:15-11:30		Tea/Coffee Break
Session 9		Radiation biology and Molecules in Diagnostics & Therapeutics (Chairperson: Dr. P. Jaisankar & Dr. Arindam Talukdar)
KL-4	11:30-11:55	Prof. Govindasamy Muges , IISc, Bengaluru Title: Redox biology vs oxidative stress: Catalytic nanomaterials and small molecule strategies for cellular homeostasis
IL-23	11:55-12:20	Prof. Harinath Chakrapani , IISER Pune Title: Leveraging tandem biocatalysis to promote antioxidant response
IL-24	12:20-12:45	Prof. Amit Majumdar , IACS, Kolkata Title: Nitric oxide and S-/N- "Crosstalk" species
IL-25	12:45-13:10	Dr. Biswadip Banerji , CSIR-IICB, Kolkata Title: New hybrid molecules as potent PARP-1 inhibitors targeting Glioma through DNA damage & ROS generation
13:10-15:00		Lunch & Poster presentation (P-81 to P-120)
Session 10		Redox Stress, Signaling & Resistance (Chairperson: Dr. Sharmila Chattopadhyay & Dr. Sukhes Mukherjee)
IL-26	15:00-15:25	Prof. Suhel Parvez , Jamia Hamdard, New Delhi Title: Wnt receptor agonist enhances neuroprotection by ameliorating mitochondrial dysfunction in ischemic reperfusion injury via CaMK signaling
IL-27	15:25-15:50	Dr. Vikram Saini , AIIMS, New Delhi Title: Nutritional modulation of redox and metabolic pathways as a broad-spectrum strategy for enhancing host defense
IL-28	15:50-16:15	Dr. Dipanjan Ghosh , NIPER, Kolkata Title: Exploring the anti-oxidant properties of beta Glucogallin against arsenic-induced neurotoxicity: Mechanistic insights into autophagy and long noncoding RNAs
16:15-16:30		Tea/Coffee Break
16.30 onwards		Valedictory Session
16:30-16:35		Welcome and Introduction of Guests
16:35-16:45		Special Address by Dr. Subrata Chattopadhyay , Former President, SFRR-India
16:45-17:00		Distribution of Awards
17:00-17:05		Closing Remarks by Prof. Vibha Tandon , Director, CSIR-IICB, Kolkata
17:05-17:10		Vote of Thanks by Dr. Sujoy K. Das , Convenor, ICRB-IHD-2025