



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: **Prof. Vibha Tandon**, Director, CSIR-IICB

09:50-10:00

About SFRR: **Dr. Soumyakanti Adhikari**, President, SFRR-India

10:00-10:10

Special Address: **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

10:30-11:00

Address by Chief Guest: **Prof. P. Balaram**, Senior Visiting Professor, NCBS and Former Director, IISc, Bengaluru

Title: Redox Biochemistry Before and After Oxygen

11:00-11:05

Vote of Thanks: **Dr. Nakul C. Maiti**, Chief Scientist & Secretary, ICRB-IHD 2025

11:05-11:30

High Tea

Session 1

Cancer Signaling, Tumor Resistance & Therapeutics

(KL: 40 min & IL: 25 min each)

(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

13:00-15:00

Lunch & Poster presentation (P-1 to P-40)

Session 2

Radiation Biology & Oncology

(KL: 40 min & IL: 25 min each)

(Chairperson: **Dr. Vijay K. Kutala & Dr. Debabrata Biswas**)

KL-2 14:30-15:10

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-3 15:10-15:35

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 15:35-16:00

Prof. Manoj K. Pandey, Cooper Medical School of Rowan University, USA

Title: Targeting redox metabolism in multiple myeloma: Pan-ALDH

IL-5	16:00-16:25	Inhibition to overcome stem-like cell-driven relapse Dr. Sheetal Uppal , BARC, Mumbai Title: Switching the gene code: BRD4 degradation unlocks radiosensitization through alternative splicing in breast cancer
	16:25-16:45	Tea/Coffee break
Session 3		Oxidative Stress in Development and Disease (25 min each) (Chairperson: Dr. Kausthabh Maiti & Dr. Apurba K. Sau)
IL-6	16:45-17:10	Prof. Amit Singh , IISc, Bengaluru Title: Bioenergetic crosstalk between host and pathogen mediates drug tolerance in Mycobacterium tuberculosis
IL-7	17:10-17:35	Prof. Suvro Chatterjee , University of Burdwan Title: Dietary nitric oxide shields embryonic development from teratogenic assaults
IL-8	17:35-18:00	Dr. Ellora Sen , BRIC-NBRC, Manesar Title: Redox landscape affects chemosensitivity: Lessons learnt for IDH mutant Glioblastoma
IL-9	18:00-18:25	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 from 18:00 to 19:00 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 (KL: 40 min & IL: 25 min each) (Chairperson: Dr. Sib Sankar Roy & Dr. Rupesh Chaturvedi)
KL-3	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 (25 min each) (Chairperson: Dr. K.M. Ramkumar & Dr. Umesh Prasad Singh)
IL12	11:20-11:45	Prof. Mansoor Ahmed , Albert Einstein College of Medicine, NY, USA Title: Redox stress and spatially fractionated radiotherapy: Synergizing two emerging paradigms in radiation oncology
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 (25 min each) (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	Dr. Rahul Checker , BARC, Mumbai Title: Mitochondrial ROS-driven proteotoxic stress: uncovering LONP1 and CLPP as vulnerabilities in Triple-Negative breast cancer	
IL-19	15:45-16:10	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-20	16:10-16:35	Prof. Biswanath Maity , Bose Institute, Kolkata Title: G protein regulators: Integrator of redox-sensitive cellular responses impacting vital organ communication	
16:35-17:00		Tea/Coffee Break	
Parallel Session: 7A & 7B 17:00 -18:30			
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. Tanaya Bose and Dr. Syamal Roy)	
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	Raviranjan 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 (25 min each) (Chairperson: Dr. Sucheta Tripathy & Dr. Manish Debnath)		
IL-21 09:30-09:55	Prof. Pralay Mitra , IIT Kharagpur Title: Accelerated Artificial Intelligence in neoepitope discovery		
IL-22 09:55-10:20	Prof. U. Deva Priyakumar , IIIT Hyderabad Title: Generative AI/ML methods for drug discovery		
IL-23 10:20-10:45	Prof. Debarka Sengupta , IIIT-Delhi Title: New breed AI and agents in drug discovery		
10.45-11.00	Tea/Coffee Break		
Session 9	Radiation biology and Molecules in Diagnostics & Therapeutics (KL: 40 min & IL: 25 min each) (Chairperson: Dr. P. Jaisankar & Dr. Arindam Talukdar)		
KL-4 11:00-11.40	Prof. Govindasamy Muges , IISc, Bengaluru Title: Redox biology vs oxidative stress: Catalytic nanomaterials and small molecule strategies for cellular homeostasis		
IL-24 11:40-12:05	Prof. Harinath Chakrapani , IISER Pune Title: Leveraging tandem biocatalysis to promote antioxidant response		
IL-25 12:05-12:30	Prof. Amit Majumdar , IACS, Kolkata Title: Nitric oxide and S-/N- "Crosstalk" species		
IL-26 12:30-12:55	Dr. Biswadip Banerji , CSIR-IICB, Kolkata Title: New hybrid molecules as potent PARP-1 inhibitors targeting Glioma through DNA damage & ROS generation		
13:00-14.30	Lunch & Poster presentation (P-81 to P-120)		
Session 10	Redox Stress, Signaling & Resistance (25 min each) (Chairperson: Dr. Sukhes Mukherjee & Dr. Sharmila Chattopadhyay)		
IL-27 14:30–14:55	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-28 14:55-15:20	Dr. Vikram Saini , AIIMS, New Delhi Title: Nutritional modulation of redox and metabolic pathways as a broad-		

IL-29	15:20-15:45	spectrum strategy for enhancing host defense 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
IL-30	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
	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
	16:45-16:55	Address by Chief Guest: Dr. Umesh M. Kunte , MD & CEO, Albert David Ltd., Kolkata
	16:55-17:10	Distribution of Awards
	17:10-17:15	Closing Remarks by Prof. Vibha Tandon , Director, CSIR-IICB, Kolkata
	17:15-17:20	Vote of Thanks, Dr. Sujoy Das , Convenor, ICRB-IHD-2025, CSIR-IICB, Kolkata