

International Toxicology Convention on
**Emerging Approaches
in Risk Analysis
and Translational
Aspects of Health and
Environment (EARTH)**

November 12-15, 2025



SCIENTIFIC PROGRAMME

ORGANIZED BY



सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH
LUCKNOW, INDIA

EARTH-2025



We are pleased to announce the international toxicology convention on “Emerging Approaches in Risk Analysis and Translational Aspects of Health and Environment (EARTH2025)” being organized by the CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Lucknow, India in association with ASTRA (Association of Toxicologists and Risk Assessors) during November 12-15, 2025.

The impact of human habits on our planet, Mother Earth, has been significant over the years. In the era of climate change, a comprehensive safety/risk assessment strategy should not only be based on a traditional mechanistic understanding of chemical toxicity but also should encompass exposure science, epidemiological data, and modern assessment/ prediction tools, including AI and ML. Such an approach prompts a paradigm shift in risk assessment and also in the way we address emerging contaminants or risks. Remaining true to this rationale, themes of this convention of the convention broadly are (a) Analytical Tools, Techniques, and assays for Research and Advancement of Competency in Toxicology (ATTRACT), (b) Risk Analysis: Techniques and Existing and Emerging Risks (RATE), (c) Public health and Environmental Toxicology (PET), (d) Development and Management of Toxicology facility (DEMAT) (e) Digital Interfaces and Predictive Toxicology (DIPTox).

This convention intends to highlight the current knowledge and future perspectives on the above themes involving different stakeholders in specific sessions, panel discussions, and oral and poster presentations. This convention also marks the beginning of the diamond jubilee celebration of our Institute, CSIR -Indian Institute of Toxicology Research (CSIR-IITR), a constituent laboratory of the Council of Scientific and Industrial Research is established in 1965 with the motto, “Safety to Environment and Health and Service to Industry”. CSIR-IITR, a GLOCAL centre of excellence in toxicology research, aims to provide implementable solutions through research and innovation for sustainable environment as well as improving human health.

SCAN HERE FOR



Book of Abstracts



Souvenir



Scientific Program



Conference Overview



Date	Venue	Program
12 November	CSIR-IITR Lawn	Inauguration, Keynote Lecture
13 November	Hall - 1	Theme - PET (3 Scientific Sessions) Oral Presentations (OP 1 to OP 14) by Young Scientists
	Hall - 2	Theme - PET (2 Scientific Sessions) Theme - DEMAT (1 Scientific Session) Theme - RATE (1 Scientific Session)
	Hall - 3	Theme - DIPTOX (1 Scientific Session) Theme - PET (1 Scientific Session) Theme - RATE (1 Scientific Session) Industry Academia Funding Agency Meet
	CSIR-IITR Lawn	Poster Session (PP 1 to PP 45)
	Atal Bihari Convention Center, King George's Medical University, Lucknow, India	Gala Dinner
14 November	Hall - 1	Theme - PET (3 Scientific Sessions) Oral Presentations (OP 15 to OP 29)
	Hall - 2	Theme - PET (1 Scientific Session) Theme - DEMAT (1 Scientific Session) IITR Alumni Young Scientists Symposia Theme - ATTRACT (1 Scientific Session)
	Hall - 3	Theme - DEMAT (1 Scientific Session) Theme - PET (1 Scientific Session) Theme - DIPTOX (1 Scientific Session)
	CSIR-IITR Lawn	Poster Session (PP 46 to PP 90)
	S.S.B. Conference Room (Hall - 4)	AGBM of ASTRA
15 November	Hall - 1	Theme - PET (2 Scientific Sessions)
	Hall - 2	Theme - PET (1 Scientific Session) Theme - ATTRACT (1 Scientific Session)
	Hall - 3	Theme - PET (1 Scientific Session)
	CSIR-IITR Lawn	Valedictory Function



Organizing Committee

International Toxicology Convention
“Emerging Approaches in Risk Analysis and Translational
Aspects of Health and Environment” (EARTH-2025)
November 12-15, 2025

Chief Patron

Dr. N. Kalaiselvi, Director General, CSIR, India

Patron and Chairman

Dr. Bhaskar Narayan, Director, CSIR-IITR, India

Organizing Secretaries

Dr. Kausar M. Ansari, CSIR-IITR, India

Dr. Alok K. Pandey, CSIR-IITR, India

Dr. Ravi Ram Kristipati, CSIR-IITR, India

Organizing Convener

Dr. Vikas Srivastava, CSIR-IITR, India

Contacts

Organizing Secretaries

Dr. Kausar M. Ansari

Email: kmansari@iitr.res.in

Phone: +91-9453119625

Dr. Alok K. Pandey

Email: alokpandey@iitr.res.in

Phone: +91-9452131557

Registration

Dr. Vikas Srivastava

Phone: +91-8756790914

For ASTRA Membership

Dr. Ravi Ram Kristipati

Email: astraindia2024@gmail.com

Phone: +91-93074 49236

Transport & Accommodation

Dr. Somendu Roy

Phone: +91-8052558222

Dr. Manoj Kumar

Phone: +91-8005494506

Medical Support

Shri Krishna Raj Singh

Phone: +91-8175066992

Shri L.N. Pandey

Phone: +91-7838931267

For AFSTI Membership

Dr. Smriti Priya

Email: afsti.lko@gmail.com

Phone: +91-9651772647



12th November, 2025, Wednesday



Registration & Inauguration

**Registration
12:00 noon onwards**

**Inauguration
15:00-17:30 Hrs**

*at
CSIR-IITR Lawn
Keynote Lecture*

18:00 Hrs

By

Prof. Bikash R. Pattnaik

PhD, FARVO & VAIBHAV Fellow

Clinical Director of Visual Electrophysiology, UW-Health
Departments of Pediatrics, Ophthalmology & Visual Sciences
RRF Daniel M. Albert Chair, McPherson Eye Research Institute
SMI112, 1300 University Avenue, Madison, WI 53706, USA

Genomic medicine translation and toxicity challenges

Chairpersons :

Dr. Sanjay Kumar

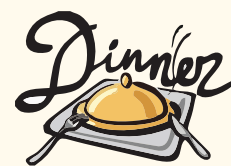
Chairperson, Agricultural Scientists Recruitment Board
Ministry of Agricultural and Farmers Welfare, New Delhi, INDIA

Dr. C. Anandharamakrishnan

Director, CSIR-National Institute for Interdisciplinary
Science and Technology, Thiruvananthapuram, INDIA



19:00 Hrs



19:30 Hrs

Council of Scientific & Industrial Research (CSIR)



The Council of Scientific & Industrial Research (CSIR), known for its cutting edge R&D knowledgebase in diverse S&T areas, is a contemporary R&D organization. Having a pan-India presence, CSIR has a dynamic network of 38 national laboratories, 39 outreach centres, 3 Innovation Complexes and 5 units. CSIR's R&D expertise and experience is embodied in about 4600 active scientists supported by about 8000 scientific and technical personnel. CSIR covers a wide spectrum of science and technology – from radio and space physics, oceanography, geophysics, chemicals, drugs, genomics, biotechnology and nanotechnology to mining, aeronautics, instrumentation, environmental engineering and information technology. It provides significant technological intervention in many areas with regard to societal efforts which include environment, health, drinking water, food, housing, energy, farm and non-farm sectors. Further, CSIR's role in S&T human resource development is noteworthy. Pioneer of India's intellectual property movement, CSIR today is strengthening its patent portfolio to carve out global niches for the country in select technology domains. CSIR is granted 90% of US patents granted to any Indian publicly funded R&D organization. On an average CSIR file about 200 Indian patents and 250 foreign patents per year. About 13.86% of CSIR patents are licensed - a number which is above the global average. Amongst its peers in publicly funded research organizations in the world, CSIR is a leader in terms of filing and securing patents worldwide. CSIR has pursued cutting edge science and advanced knowledge frontiers. The scientific staff of CSIR only constitute about 3-4% of India's scientific manpower but they contribute to 10% of India's scientific outputs. In 2012, CSIR published 5007 papers in SCI Journals with an average impact factor per paper as 2.673. In 2013, CSIR published 5086 papers in SCI journals with an average impact factor per paper as 2.868. CSIR has operationalized desired mechanisms to boost entrepreneurship, which could lead to enhanced creation and commercialization of radical and disruptive innovations, underpinning the development of new economic sectors.



13th November, 2025, Thursday



	Hall 1 S H Zaidi Auditorium	Hall 2 P K Ray Auditorium	Hall 3 Networking Hall (TDIC)
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	DIPTox (Digital Interfaces and Predictive Toxicology)
	SESSION-1 Human Health Risk Assessment	SESSION-2 Neurobiology and Neurotoxicity	SESSION-3 Artificial Intelligence/Machine Learning in Toxicology
Chairpersons:	Professor Irfan Rahman , Rochester Medical Center, USA Professor Bhuwan Chandra Tiwari , Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow, India	Dr Rajiv R. Mohan , University of Missouri, Columbia, USA Dr Yogesh Saini , NC State University, USA	Dr Rishi Shanker , Former Chief Scientist, CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr Neeraj Sinha , Centre of Bio-Medical Research, Lucknow, India
Rapporteurs:	Dr Pradeep Kumar Sharma Ms Kanchan Sonkar	Dr Mohan CD Mr Sandeep Negi	Dr Raja Gopal Rayavarapu Dr Sumana Y Kotian
09:30-10:00	PL-1: One Health and Predictive Toxicology in Autoimmune Neurological Disorders Dr Rajpal Singh Kashyap , Director, Advanced Research Centre, Central India Institute of Medical Sciences, Nagpur, Maharashtra, India	PL-2: Glial Cells in Health and Disease Professor Ishan Patro , ICMR Emeritus Scientist, School of Neuroscience, Jiwaji University, Gwalior, India	PL-3: Addressing Health of Our Communities Through AI/ML Data and Workforce: The AIM- AHEAD Consortium Dr Jamboor Vishwanatha , Texas Center for Health Disparities, University of North Texas Health Science Center, Fort Worth, USA
10:00-10:20	IL-1: Development & Management of GLP Toxicology Facility in India Dr Mukul P Pore , INTOX-Quality Toxicological Services, Mumbai, India	IL-4: Sirtuin-1 Mediates Mitochondrial Resilience in Ischemic Stroke Following Endovascular Stem Cell Therapy Dr Pallab Bhattacharya , Department of	IL-7: Integrating Machine learning with Metabolomics for Facile Screening of Therapeutic Efficacy and Safety Dr Dinesh Kumar , Department of Advanced Spectroscopy



सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH



...in service of food, health & environmental safety since 1965



13th November, 2025, Thursday



		Pharmacology and Toxicology, Florida National Institute of Pharmaceutical Education and Research, Ahmedabad, India	and Imaging, Centre of Bio-Medical Research, Lucknow, India
10:20-10:40	IL-2: Developing Long-Acting Injectables (LAIs): Considerations for evaluation of Local Tolerability in Animal Models the Talk will Align with Toxicology Session or Drug Discovery and Development Dr Bhanu Singh, Nonclinical Safety and Pathobiology, 333 Lakeside Drive, Foster City, USA	IL-5: The LINC00094 /miR-19a-3p Signaling Regulates Glycolysis and Mediates Cold-Induced Traumatic Brain Injury Dr Durga Prasad Mishra, Department of Endocrinology, CSIR-Central Drug Research Institute, Lucknow, India	IL-8: The Interconnected Dynamics of Climate Change, Plastic Pollution, and Human Health (CPH)² for Sustainable Solutions: Introduction to Eco-synergy Insight Tool Dr Vineeta Sharma, Department of Biotechnology, Manav Rachna International Institute of Research and Studies Faridabad, India
10:40-11:00	IL-3: Modulation of Intestinal Signal Transduction Pathways by Heavy Metal Cadmium: Implications on Gut Health and Disease Dr Mohan Kamthan, Department of Biochemistry, School of Chemical and Life Sciences, Jamia Hamdard, Delhi, India	IL-6: Risk Analysis and Translation Aspects of Genetic/Epigenetic Studies in Complex Diseases Dr Monisha Banerjee, Zoology Department, Lucknow University, India	IL-9: Nanotechnology Toxicology Balancing Safety and Innovation in Healthcare Applications. Dr Saba Naqvi, Department of Pharmacology and Toxicology, National Institute of Pharmaceutical Education and Research, Raebareli, Lucknow, India
11:00	Tea at Institute's Lawn, CSIR-Indian Institute of Toxicology Research, Lucknow, India		
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)
	SESSION-4 Target Organ Toxicity (Pulmonary Toxicity)	SESSION-5 Target Organ Toxicity (Neurotoxicity)	SESSION-6 Target Organ Toxicity



CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Lucknow



CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Lucknow, a constituent laboratory of the Council of Scientific and Industrial Research (CSIR), was established on November 4, 1965. It is the only institute of toxicology in the country contributing towards cutting-edge research and innovation in toxicology with the motto: “Safety to Environment and Health and Service to Industry”. CSIR-IITR has world class infrastructure and human resources in toxicology and providing one stop solution to address environment and health issues. Around six decades of contributions in the field of toxicology have globally positioned CSIR-IITR in various aspects of toxicology. The institute has been at the forefront of contributing research towards for policy and implementation by providing inputs for the development of many policy documents, guidelines, and BIS/ISO standards.

CSIR-IITR has stronghold in the three R&D domains viz., FEST (Food, Drug & Chemical, Environment and Systems Toxicology), ASSIST (Analytical Sciences & Services, Industrial Support through Technological Solutions) and REACT (Regulatory and Computational Toxicology, Epidemiology and Bio-statistics). While FEST comprises of all basic R&D laboratories, ASSIST has the industry support laboratories including the translation centres and knowledge marketing services, apart from strong linkage to R&D works of the other two divisions & other stakeholders. Those areas associated with GLP and NABL testing services come under the umbrella of REACT, apart from the strong R&D that is required to execute these services.

CSIR-IITR also provides a healthy innovation ecosystem through its “Technology Development and Innovation Centre” supported by BIRAC-BioNEST and DSIR-CRTDH. Scientists constantly interact with the industry to solve their problems through innovative technological solutions.

SCAN QR FOR MAP TO REACH CONFERENCE VENUE



M.G. MARG CAMPUS



13th November, 2025, Thursday



Chairpersons:	Professor Ajay Verma, Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow, India Professor Ashish Jha, Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow, India	Professor Ishan Patro, ICMR Emeritus Scientist, School of Neuroscience, Jiwaji University, Gwalior, India Dr Vinay K Khanna, Former Chief Scientist, CSIR-Indian Institute of Toxicology Research, Lucknow, India	Dr Poonam Kakkar, Former Chief Scientist, CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr Mohan Gurjar, Department of Critical Care Medicine, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India
Rapporteurs:	Dr Priti Bhardwaj Ms Nidhi Arjaria	Dr Mohan CD Dr Sangam Rajak	Dr Nidhi Gupta Mr Jai Shanker
11:15-11:45	PL-4: Emerging environmental exposures and pulmonary morbidity Professor Irfan Rahman, Director, Flavor Inhalation Toxicology Research, Rochester Medical Center, Rochester, USA	PL-5: Human Neural Stem Cells and Cerebral Organoids as Models for Viral Neurotoxicity Professor Pankaj Seth, Molecular and Cellular Neuroscience, Neuro virology Section, National Brain Research Centre, Manesar, India	PL-6: Carbofuran Pesticide Exposure to Eyes Causes Corneal Toxicity and Vision Loss in Preclinical Human Cornea ex vivo and Rodent in vivo Models Dr Rajiv R Mohan, Curators' Distinguished Professor, University of Missouri, Columbia, USA
11:45-12:05	IL-10: IL-33/ST2 Axis in Asthma: Mechanistic and Clinical Perspectives on a Novel Inflammatory Pathway. Dr Rohit Saluja, Department of Biochemistry, All India Institute of Medical Sciences, Hyderabad, India	IL-15: From Gut to Neurons: How Microbiota-Derived Succinate Exacerbates Alpha Synuclein Aggregation and Toxicity Dr Aamir Nazir, CSIR-Central Drug Research Institute, Lucknow, India	IL-20: Novel Tools and Approaches for the Identification of Effective Targeted Therapies Against Toxic Chemical Exposures Dr Neera Tewari Singh, Department of Pharmacology & Toxicology, Institute for Integrative Toxicology, Michigan State University, Michigan, USA

The Logo, Motto & Team Mantra



CSIR- IITR Logo

The **maroon color** in the logo indicates **health and intensity**

The **green** stands for **growth, prosperity & vibrancy**

The  **globe showing India** points to the **GLOCAL** nature of our translational research

The **I** and **R** touching the circle points to the fact that we connect the **current to future and provide one stop solution**, as far as possible

The **logo of CSIR** within the circle indicates the **being part of CSIR is our pride** apart from the fact that the **I** in the IITR not only stands for **India** or **Institute** but also stands for **inclusiveness**

With the renewed logo, CSIR-IITR rededicates itself to the nation with a resolve that each IITRian puts Institute first above the individual the individual self to deliver what stakeholders expect from our institution.

Motto : for better health and safe environment

Team Mantra : “until all of us have succeeded, none of us have”

Strategy : Move from R&D to R4D – Research, Development, Demonstrate & Deliver, Digitize



13th November, 2025, Thursday



12:05-12:25	IL-11: Air Pollution in Varanasi, India and Risk of Pulmonary Fibrosis Dr Rashmi Singh, Department of Zoology, Banaras Hindu University, Varanasi, India	IL-16: Stress Vulnerability and the NMDA Axis: Dietary Calories as a Hidden Modulator Dr Ashok Datusalia, Department of Pharmacology and Toxicology, National Institute of Pharmaceutical Education and Research, Raebareli, Lucknow, India	IL-21: Interplay of Complement Activation and Lipid Metabolism Pathway Contributes to Retinopathy of Prematurity Dr Inderjeet Kaur, Kallam Anji Reddy Molecular Genetics Laboratory, L V Prasad Eye Institute, Hyderabad, India
12:25-12:45	IL-12: Molecular and Cellular Pathways of Ozone-Induced Lung Injury. Dr Yogesh Saini, Department of Population Health and Pathobiology, NC State University, USA	IL-17: Autophagy Restores Redox Homeostasis and Synaptic Function in Amyloid-β Models: Insights from in Vitro and in Vivo Studies Dr Abhishek Kumar Singh, Manipal Center for Biotherapeutics Research, Manipal Academy of Higher Education, Manipal, Karnataka, India	IL-22: Di-(2-ethylhexyl) phthalate (DEHP) exposure causes sexual behavior deficits and reproductive toxicity through endoplasmic reticulum stress Dr Ashok Jangra, Department of Pharmacy, Central University of Haryana, India
12:45-13:05	IL-13: Arsenical Exposure-Induced Systemic Inflammation and Associated Lung Injury. Dr Ranu Surolia, Department of Medicine, The University of Alabama, Birmingham, USA	IL-18: Molecular Interplay Between FG-Nup98 and Tau Through Phase Separation and Co-condensation in Alzheimer's Disease Professor Timir Tripathi, Department of Zoology, North-Eastern Hill University, Shillong, India	IL-23: Chlorine Exposure to Eyes Reduces Cellular Viability and Induces Inflammatory Markers in Human Corneal Stromal Fibroblasts Dr Prashant Sinha, Department of Ophthalmology, University of Missouri, Columbia, USA
13:05-13:25	IL-14: Unveiling MicroRNA as a diagnostic biomarker in Prostate Cancer	IL-19: Data Analysis with Small Sample Sizes: An Alternative Method Dr Prabhakar Mishra, Department of	IL-24: GABAergic regulation of the Stress-Reproductive Axis in the Viviparous Teleost Poeciliasthenops

Recognitions of CSIR-IITR



“MSME Academia Excellence” Award
March 2024



National Reference Laboratory (NRL)
status of FSSAI



NABL accreditation



GLP certification



13th November, 2025, Thursday



	Dr Mohd Kaleem Ahmad , Department of Biochemistry, King George's Medical University, Lucknow, India	Biostatistics and Health Informatics, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India.	Professor Ganesh CB , Department of Zoology, Karnataka University, Dharwad, India
13:25-14:30	Lunch at Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		
14:00-16:00	SESSION-7: Poster presentations (PP 1-PP49)		
Convenor:	Dr Chetna Singh & Dr Smriti Priya		
15:45-16:00	Tea at Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		
THEME	PET (Public Health & Environmental Toxicology)	DEMAT (Development and Management of Toxicology Facility)	RATE (Risk Analysis: Techniques & Existing & Emerging Risks)
	SESSION-8 Development and Discovery in Cancer Therapeutics	SESSION-9 Nanotechnology and Nanomaterial Toxicology	SESSION-10 Emerging contaminants
Chairpersons:	Dr Sanjeev Yadav , Professor, Department of Haematology, Sanjay Gandhi Post Graduate Institute of Medical Sciences Dr Aamir Ahmad , Group Leader, Epigenetics Research, Translational Research Institute, Hamad Medical Corporation, Doha, Qatar	Professor Alok Dhawan , Director CBMR, Lucknow, India Professor Abbas Ali Mahdi , Vice Chancellor, Era University, Lucknow, India	Dr Joanne Ho , Waters India Pvt Ltd Dr D K Patel , CSIR-Indian Institute of Toxicology Research, Lucknow, India
Rapporteurs:	Dr Priti Bhardwaj Ms Kalpana Padalia	Dr Mohan CD Ms Deepali Tripathi	Dr Nidhi Gupta Dr Sumana Y Kotian
15:00-15:30	PL-7: Mitochondrial Unfolded Protein Response in Neuroendocrine Prostate Cancer. Dr Dhyan Chandra , Department of Pharmacology and Therapeutics, Roswell	PL-8: Engineering the Future of Diabetes Care: Tailored NanoCarriers for Targeted Drug, Peptide, and miRNA Delivery Professor Anupama Mittal , Department of Pharmaceutics, National Institute of	PL-9: PFAS Monitoring in Environmental Matrices Dr Joanne Ho , Waters India Pvt Ltd, II Phase, Bangalore, India

Services Landscape of CSIR-IITR

Services Offered

- GLP certified pre-clinical toxicity studies
- NABL (ISO/IEC 17025:2017) accredited Safety/ toxicity evaluation of NCEs
- Water quality assessment and monitoring
- Analytical services
- Environmental monitoring and impact assessment
- Information on chemicals/ products
- Computational predictive toxicity assessment

R & D Partnership for Industries & Startup Centre for Innovation & Translational Research (CITAR)-BIRAC-BioNEST

● Thrust areas

- Agro biotechnologies
- Food and Cosmetics
- Pharma and Biopharma
- Waste Management and Environmental Solutions

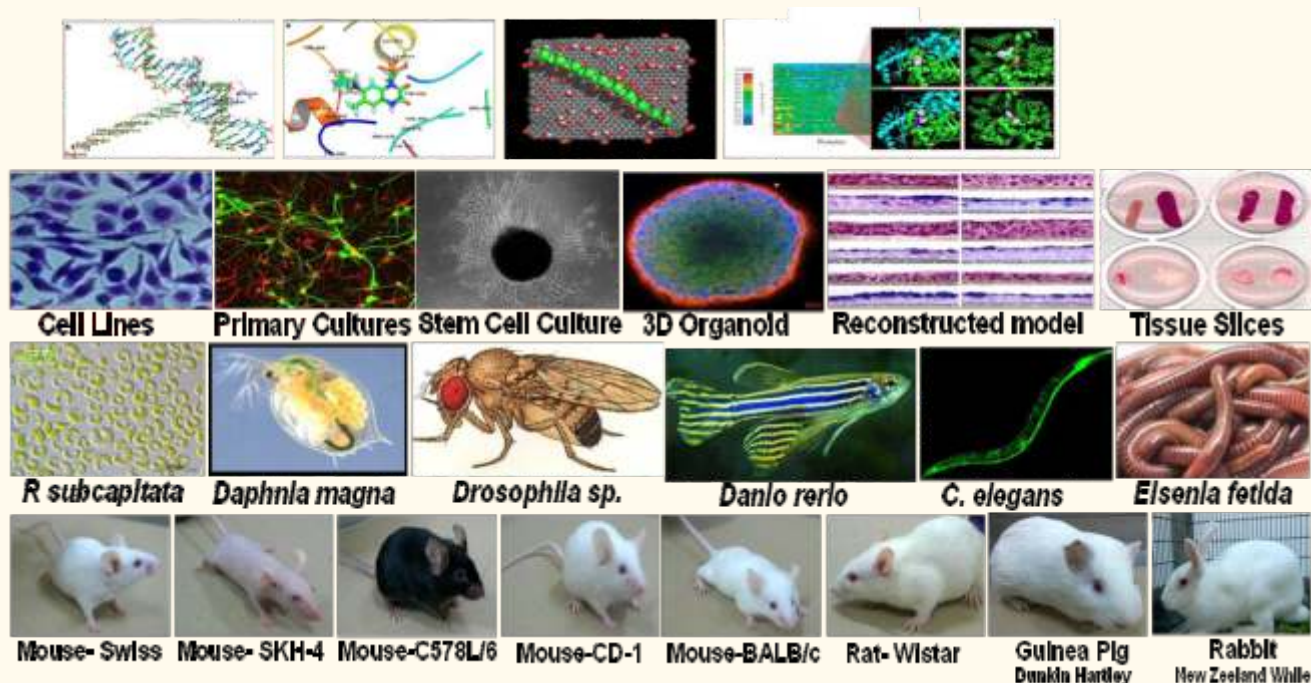
Recognitions

- Scientific & Industrial Research Organizations (SIROs)
- UP Pollution Control Board (Water & Air)
- Indian Factories Act (Drinking water)
- Bureau of Indian Standards (Synthetic detergents)
- Food Safety & Standards Authority of India (FSSAI)

Environmental Monitoring and Intervention Hub: DSIR-IITR-CRTDH

- Funded by DSIR

GLP compliant OECD approved models for pre-clinical studies at CSIR-IITR





13th November, 2025, Thursday



	Park Cancer Institute, New York, USA	Pharmaceutical Education & Research, SAS Nagar, Punjab, India	
15:30-15:50	IL-25: From Resistance to Response: Unlocking TNFRSF10A in Pancreatic Cancer. Dr Manoj Mishra, Alabama State University, Montgomery, AL, USA	IL-27: Chitosan-Lignin Hydrogel Beads for Adsorptive Removal of Textile Dyes and Heavy Metals from Wastewater Dr Joydeep Dutta, Department of Zoology, Lovely Professional University, Phagwara, India	IL-30: Assessing food contaminants and their cumulative effects using high-throughput exposomics Dr Niladri S. Chatterjee, ICAR- Central Institute of Fisheries Technology, Kochi, India
15:50-16:10	IL-26: Crosstalk between Autophagy and Exosome pathways facilitate cellular homeostasis Dr Bhawana Bissa, Department of Biochemistry, School of life Sciences, Central University of Rajasthan, India	IL-28: Selenopolymeric Nanocomposites: A Smart Tool for Combinatorial Cancer Therapy Dr Satyakam Patnaik, CSIR-Indian Institute of Toxicology Research, Lucknow, India	IL-31: Regulatory Landscape for Emerging Contaminants in Food Safety (Food & Food Contact Material) arena Mr Shrinivas Joshi, Food & Environment Market Waters India Pvt Ltd, II-Phase, Bangalore, India
16:10-16:30		IL-29: A Data Driven Assessment of Abiotic, Biotic and Anthropogenic Drivers of Climate Change: Emissions, Anomalies and Climate chaos Dr Jayant Maini, Department of Biotechnology, School of Engineering and Technology, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana	IL-32: Marine Biotoxins: Emerging contaminants with analytical challenges for safe foods Dr Pankaj Kishore, ICAR-Central Institute of Fisheries Technology, Kochi, India

Innovation & Technology Showcase @ CSIR-IITR

- Oneer- A novel solution for safe drinking water
- Portable Water Analysis Kit
- Mobile Laboratory for environment and human health
- AO Kit for rapid screening of Argemone in mustard oil
- MO Check for detection of Butter Yellow, an adulterant, in edible oils
- SenzHB[®] - A Rapid haemoglobin test kit
- Attest - Milk adulteration detection kit
- Attest - Edible oil test kit
- Attest - Fruit-juice freshness test kit
- Response - Multiplexed testing device
- Wellsens[®] - Intelligent packaging solutions
- MilkAchecker
- FluoriPCR[®] - A platform device integrating thermocycler with fluorimeter



For further queries please contact : Head, RPBD (rpbd@iitrindia.org)

The logo of "Innovation and Technology showcase (ITS)" represents the commitment of CSIR towards innovation and technological advancement across various fields. It visually represents the organization's dedication towards advancing science & technology for the betterment of society.





13th November, 2025, Thursday

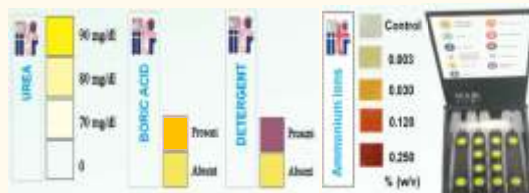


16:00-18:30	SESSION 11: Oral Presentations by Young Scientists (OP1-OP14)	RATE SESSION 12: Industry & Academia Convergence for Safety Assessment	SESSION 13: Industry, Academia, Funding Agency Meet
Chairs:	Dr Dipak Datta , CSIR-Central Drug Research Institute, Lucknow, India Dr Ranu Surolia , University of Alabama, Birmingham, USA Dr Krishna Mohan Poluri , Department of BioSciences and Bioengineering. Indian Institute of Technology Roorkee, India	Dr Kailash C. Khulbe , CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr Niladri S. Chatterjee , ICAR-Central Institute of Fisheries Technology, Kochi, India	Dr Sonali Roy , RISE Foundation IISER, IISER-Kolkata Incubation Center, Mohanpur, Nadia West Bengal, India Dr Akshay Dwarka Nath , CSIR-Indian Institute of Toxicology Research, Lucknow, India
Conveners/Rapporteurs:	Dr Pradeep Kumar Sharma Dr Mohan CD	Dr Ashwani Bhardwaj Mr Sandeep Negi	Dr Himanshi Tripathi Dr Sumana Y Kotian
16:30-16:50		IL-33: New approaches to address Food Authenticity /Adulteration (Large Volume Testing) Dr Padmakar Wagh , Waters India, Bangalore, India	IL-37: Status of Unani Medicine in India and Funding Opportunities in Ayush Dr Jamal Akhtar , Ministry of AYUSH, Delhi, India
16:50-17:10		IL-34: Laboratory Automation In Food and Environmental Labs for Regulatory Compliance Mr Anil Kurup , Waters India, Bangalore, India	IL-38: Bridging the Gap: Integrating DMPK and Toxicology for Translational Success in Drug Discovery Dr Mohd. Zainuddin , Jubilant Therapeutics India Limited, Bangalore, India
17:10-17:30		IL-35: Food Supplementation and Consumer Safety Dr Adip Roy , Enterprises Private Limited, India	IL-39: Preclinical Toxicology: Challenges and Alternatives Dr Indranil Mukhopadhyay ,

Sensors and Devices developed @ CSIR-IITR

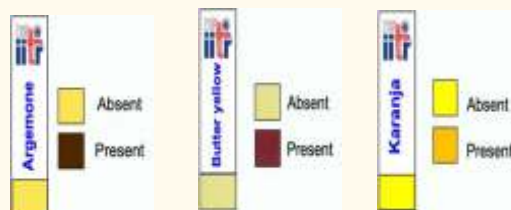
Detection of adulterants in milk

- Milk and milk products are often adulterated with non-permissible components.
- Paper-based chromogenic test-strips and kit developed for the on-site detection of urea, detergent, boric acid, hydrogen peroxide, nitrates/nitrites and ammonium ions in milk.



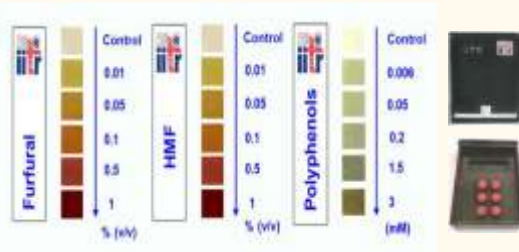
Detection of adulterants in edible oils

- The consumption of adulterated oils and dyes such as argemone, karanja, and butter yellow in the human diet have a detrimental health consequences.
- Paper-based chromogenic test-strips have been developed for the detection of argemone, karanja and butter yellow in edible oils.

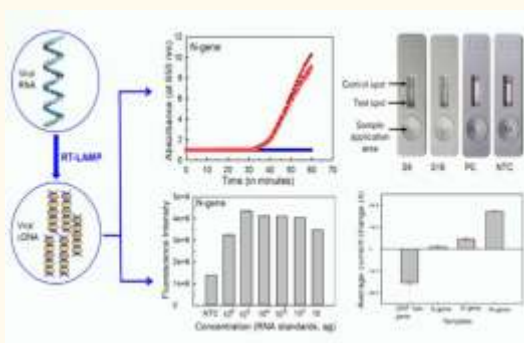


Detection of spoilage in beverages & fruit juices

- Storage and transport conditions can have a deteriorative impact on fruit juice and other beverages.
- Several spoilage markers such as furfural, hydroxymethylfurfural (HMF) and polyphenols are produced in fruit juices.
- Paper-based chromogenic test-strips and kit has been developed for the detection of spoilage markers.



Lateral-Flow Device for multigene targets in SARS-CoV-2



RT-LAMP-based lateral flow device and electrochemical sensor for detection of multigene targets in SARS-CoV-2

Agro-based material for colorimetric and electrochemical biosensing applications



- Biodegradable and non-toxic material for applications in electrochemical sensing, chromogenic wearable sensors and package-integrated sensors.

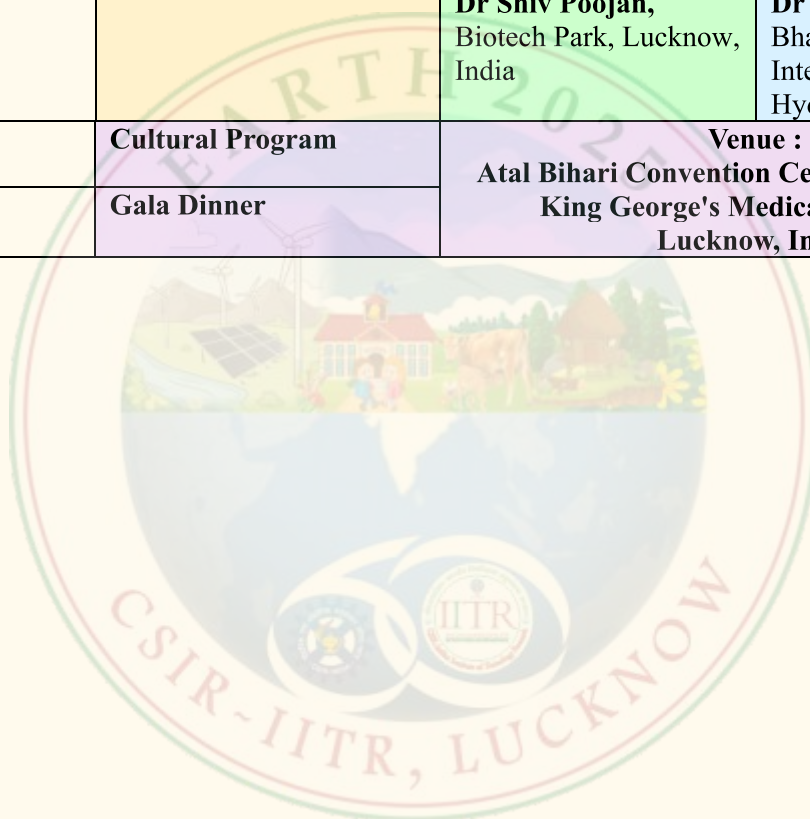
For further queries please contact :
Head, RPBD (rpbd@iitrindia.org)



13th November, 2025, Thursday



			Revio Therapeutics, Hyderabad, Telangana, India
17:30-17:50		IL-36: Beyond Animal Testing: Emerging trends in toxicity assessment using alternative models Dr Shiv Poojan, Biotech Park, Lucknow, India	IL-40: Preclinical Safety Assessment of Vaccines: Challenges and Emerging Approaches Dr Brunda Ganneru, Bharat Biotech International Limited, Hyderabad, India
19:00 onwards	Cultural Program	Venue : Atal Bihari Convention Center, M. G. Marg, King George's Medical University, Lucknow, India	
19:30 onwards	Gala Dinner		



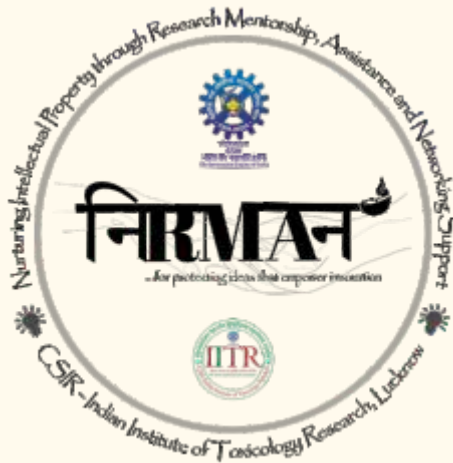
Insights into Intellectual Property Rights Management and Evaluation (iPRiME)



- An initiative to raise awareness and build capacity in IP management and evaluation
- To conduct training and awareness programs in the field of Intellectual Property Rights
- 4 Awareness Programs conducted so far - in and out of CSIR-IITR campus



Nurturing Intellectual Property through Research Mentorship, Assistance and Networking Support (NIRMAN)



- To position CSIR-IITR as an end to end facilitator in intellectual property , fostering IP-empowered innovators and entrepreneurs
- Creating a vibrant ecosystem that supports startups and entrepreneurs
- To build awareness, capacity, and confidence in IP processes among innovators
- Bridging the gap between lab research and market by enabling IP-led technology transfer and commercialization



14th November, 2025, Friday



	Hall 1 S H Zaidi Auditorium	Hall 2 P K Ray Auditorium	Hall 3 Networking Hall, TDIC Building
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	DEMAT (Development and Management of Toxicology Facility)
	SESSION-14: Development and Discovery in Cancer Therapeutics	SESSION-15: Nanotechnology and Nanomaterial Toxicology	SESSION- 16: New Approach Methodologies (NAMS) in Toxicology
Chairpersons:	Dr Bushra Ateeq , Department of Biological Sciences & Bioengineering, Indian Institute of Technology, Kanpur, India Dr S K Rath , Former Chief Scientist, CSIR- Central Drug Research Institute, Lucknow, India	Professor Qamar Rahman , Dean Research, Amity University Lucknow, India Professor Lawrence Harshman , School of Biological Sciences, University of Nebraska- Lincoln, United States	Professor Yael Heifetz , Hebrew University of Jerusalem, Jerusalem, Israel Professor S.R. Ramesh , Department of Zoology, University of Mysore, Mysore, India
Rapporteurs:	Dr Beena Vamadevan Dr Sangam Rajak	Dr Nandita Das Mr Pankaj Jagdale	Dr Sreekanth B Mr Sandeep Negi
09:30-10:00	PL-10: DKC1-mediated Sphingolipid Dysregulation Drives Colorectal Cancer Aggressiveness and Therapy Resistance. Dr Bushra Ateeq , Department of Biological Sciences & Bioengineering, Indian Institute of Technology, Kanpur, India	PL-11: Agar as a Potential Packaging Material Professor Vivek Verma , Department of Materials Science and Engineering, Indian Institute of Technology, Kanpur, India	PL-12: Using the Drosophila Model to Discover the Molecules and Mechanisms that Drive Fertility Professor Mariana F. Wolfner , Goldwin Smith Professor of Molecular biology and genetics, Cornell University, Ithaca, NY USA
10:00-10:20	IL-41: From Bench to Bedside: How a Molecule Becomes a Therapy Dr Saurabh Singh , Novartis India Limited, Hyderabad, India	IL-45: Remediation of Emerging and Hazardous Contaminants through Bio-Nanotechnological Interventions Dr Krishna Mohan Poluri , Department of BioSciences and	IL-49: Transgenerational Neurobehavioural Effects of arsenic in zebrafish (Danio rerio) Professor Som Niyogi , Department of Biology and Toxicology Centre, University of

State-of-the-Art Analytical and CRM Facility @ CSIR-IITR

NaMo-ATAL Facility (New-age Model Accredited Testing & Analytical Laboratory) facility



(VVSaaS) Centre for VishVigyan Sandarbh Saamagree Production



PFAS Facility





14th November, 2025, Friday



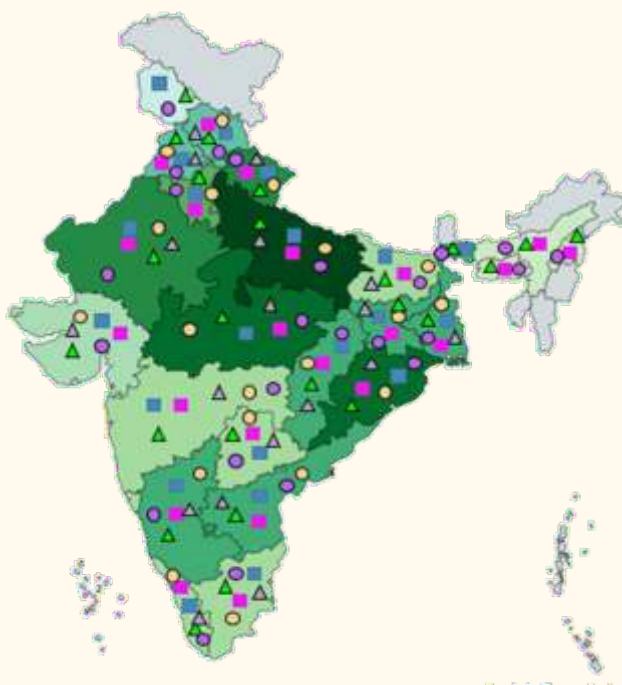
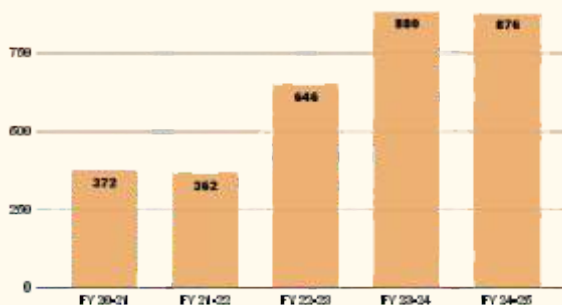
		Bioengineering. Indian Institute of Technology Roorkee, India	Saskatchewan, Saskatoon, Canada
10:20-10:40	IL-42: Selective mTORC2 Inhibition for Attenuating Breast Cancer Metastasis: Aza-Glycine-Modified Peptide Scaffold for Disrupting Ras-mSIN1 Interaction Dr Smriti Bhadauria, Toxicology Division CSIR- Central Drug Research Institute, Lucknow, India	IL-46: Exploring Cyanobacteria as a Model System for Nanoparticle Toxicity Screening and a Sustainable Source of Biofertilizers and Bioactive Compounds Professor Alvina Farooqui, Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow, India	IL-50: Multigenerational Effects of Polystyrene Microplastics on <i>Drosophila melanogaster</i> Dr H P Gurushankara, Department of Zoology, School of Biological Sciences, Central University of Kerala, Kasaragod, India
10:40-11:00	IL-43: Dietary Epigenetic Modulators Reprogram Tumor Metabolism and Alleviate Chemotoxicity in TNBC through Gut Microbiome Homeostasis Dr Syed Musthapa Meeran, CSIR-Central Food Technological Research Institute, Mysuru, India	IL-47: Arsenic Trioxide and its Nanoparticles Modulate the Telomerase complex: Implications for therapeutic Targeting Dr Rizwanul Haque, Department of Biotechnology, Central University South Bihar, Gaya, India	IL-51: Multigenerational Immunotoxicity from Developmental Exposure to Triclosan: Insights from <i>Drosophila melanogaster</i> Dr Anurag Sharma, Department of Environmental Health and Toxicology, Nitte University Center for Science Education Research, Mangalore, India
11:00-11:20	IL-44: Stress Pathways and Survival Dependencies in Colon Cancer Dr Jalaj Gupta, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India	IL-48: Breaching the Blood Brain Barrier with Surface Modified Nanoparticles. Dr Anusha Aditya, Columbia University Irving Medical Center, New York, USA	IL-52: <i>Drosophila melanogaster</i> as an alternative model for evaluating calcium carbide (CaC₂)-induced toxicity Professor Yasir Hasan Siddique, Department of Zoology, Aligarh Muslim University, Aligarh, India
11:20	Tea at Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		

Skill Development @ CSIR-IITR



CSIR INTEGRATED SKILL INITIATIVE

PEOPLE TRAINED OVER THE YEARS



● males ● females



● urban ● rural



● general ● reserved



For more details scan the QR code
<https://iitr.res.in/En/SDP.aspx>

Skilling Partners



Spread of beneficiaries of CSIR-IITR SDP



14th November, 2025, Friday



THEME	PET (Public Health & Environmental Toxicology)	DEMAT (Development and Management of Toxicology Facility)	PET (Public Health & Environmental Toxicology)
	SESSION-17 Development and Discovery in Cancer Therapeutics	SESSION-18 CSIR-IITR Alumni Young Scientists Symposium	SESSION-19 Bioremediation of Hazardous Wastes
Chairpersons:	Professor Gaurav Agrawal, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India Professor Dr Neera Tewari-Singh, Michigan State University, USA	Professor Mariana F. Wolfner, Cornell University, Ithaca, NY USA Dr Catalina Alfonso-Parra, Colombian Institute for Tropical Medicine, CES University	Dr N Manickam, Former Chief Scientist, CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr V P Sharma, Former Chief Scientist, CSIR-Indian Institute of Toxicology Research, Lucknow, India
Rapporteurs:	Dr Beena Vamadevan Dr Vikram Singh	Dr Bhumika Ray Ms Nidhi Arjaria	Dr Sreekanth B Mr Deepali Tripathi
11:15-11:45	PL-13: Discovery and Development of SMAC Mimetic as Cancer Therapeutic: A Journey from Synthesis to IND Application. Dr Dipak Datta, CSIR-Central Drug Research Institute, Lucknow, India	IL-58: Automated High-Throughput Liver Organoid Platform for Diversity-Inclusive Prediction of Drug-Induced Liver Injury Dr Alok K. Verma, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA	PL-14: From Shore to Reef: Multidimensional Risk Profiling of Microplastics in the Coral Atolls of Lakshadweep, Indian Ocean Dr S Bijoy Nandan, Department of Marine Biology, Cochin University of Science and Technology, Cochin, India
11:45-12:05	IL-53: Natural and Synthetic Approaches in the Development of PIM-1 Kinase Inhibitors for Cancer Treatment Professor Md. Imtaiyaz Hassan, Professor Centre for Interdisciplinary Research in Basic Sciences, Jamia	IL-59: Acoustically Responsive Liposomes for Precision Drug Delivery and Noninvasive Neuromodulation Dr Mahaveer P Purohit, Department of Radiology, School of Medicine Airan Lab, 1201 Welch Road,	IL-64: Asphaltene biotransformation for heavy oil upgradation and bioremediation Professor Preeti Srivastava, Department of Biochemical Engineering and Biotechnology, Indian

Student Connect Programs @ CSIR-IITR



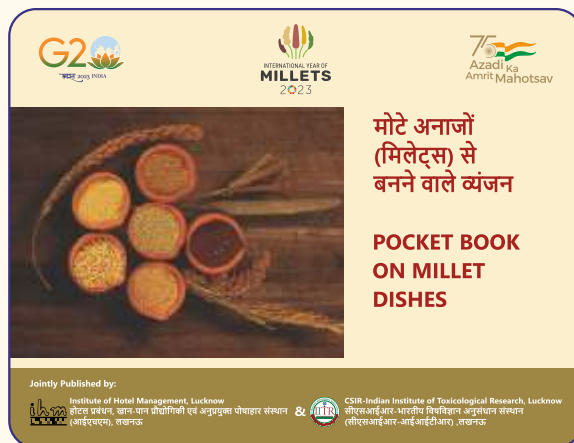
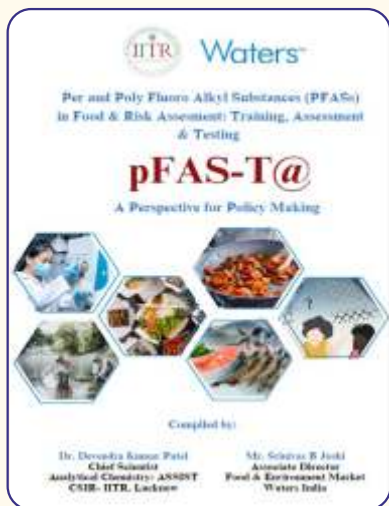
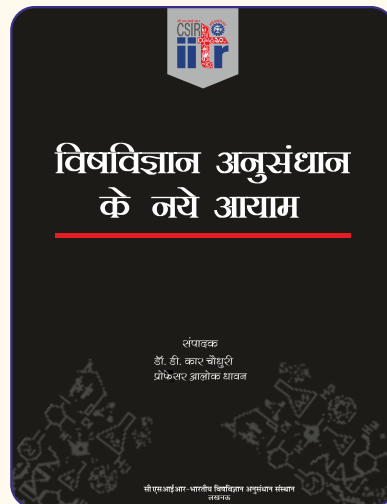
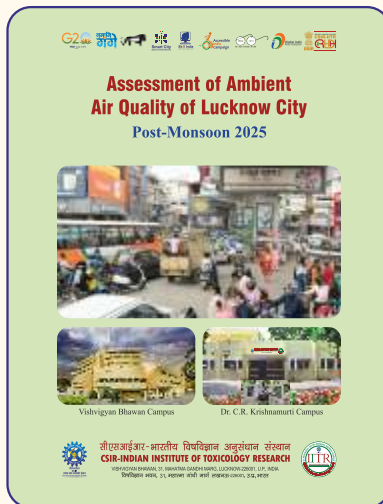
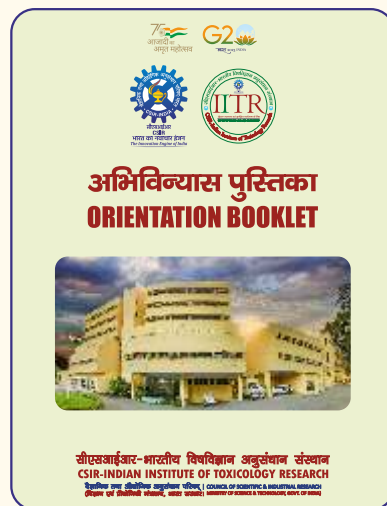


14th November, 2025, Friday



	Millia Islamia, New Delhi, India	Lucas Center Stanford University, Stanford, CA 94305	Institute of Technology Delhi, Delhi, India
12:05-12:25	IL-54: Non-coding RNAs-based signature for Identification of Responders to Immunotherapy in Non-Small Cell Lung Cancer. Dr Aamir Ahmad, Group Leader, Epigenetics Research, Translational Research Institute, Hamad Medical Corporation, Doha, Qatar	IL-60: Myeloid-specific Ire1α is required for diet-induced liver fibrosis Dr Radha Singh, Diabetes Center, University of California, San Francisco, USA	IL-65: Constructed Wetlands as a Resilient Eco-Technology for Managing Aquatic Pollution Dr Rajesh Singh, Environmental Hydrology Division National Institute of Hydrology, Roorkee, India
12:25-12:45	IL-55: Development of natural and synthetic carbazole alkaloids as targets for cancer epigenetics. Dr Arvind Singh Negi, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India	IL-61: Demyelination independent pathogenic mechanisms in multiple sclerosis Dr Vikas Singh, Department of Neuroscience, Lerner Research Institute, Cleveland, USA	IL-66: Emerging contaminants in aquatic ecosystems: Mechanistic insights into oxidative stress, detoxification, and apoptotic pathways in fish models Dr K. C. Chitra, Department of Zoology, University of Calicut, Calicut, India
12:45-13:05	IL-56: Targeting Hsp90 with Gedunin and Metformin: A Combined Approach to Induce Apoptosis in A549 Lung Cancer Cells through Disruption of Autophagy and ER Stress Dr Snober Mir, Department of Biotechnology Integral University Lucknow, India	IL-62: An overview on EIRENE-CZ mass spectrometry resources supporting human exposome research Dr Kapil Mandrah, Masaryk university, Kotlářská 267/2, Brno, Czechia	IL-67: Exploration of fungal exopolysaccharide for heavy metal mycoremediation Dr Tabish Qidwai, Department of Biotechnology Engineering, Shri Ramswaroop Memorial University Lucknow, India

Publications from CSIR-IITR





14th November, 2025, Friday



13:05-13:25	IL-57: Cancer chemo-preventive and anticancer efficacies of medicinal plants of North East India Professor Anand Ramteke , Department of Molecular Biology&Biotechnology, Tezpur, Napaam University of Tezpur, India	IL-63: Intelligent Nanotech: Redefining Innovation for Greener Future Dr Neetu Dhiman , GNA University, Phagwara, India	IL-68: Microbial Biofilms: Drivers of Antimicrobial Toxicity and Evaluation of Clinical Resistance Dr Payal Gupta , Department of Biotechnology, Graphic Era Deemed University, Dehradun, India
13:25-14:30	Lunch at the Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		
13:45-15:45	SESSION 20: Poster Presentations (PP50-PP98)		
Convenors:		Preeti Chaturvedi & Rachna Kumar	
15:45-16:00	Tea at Institute's Lawn, CSIR-Indian Institute of Toxicology Research, Lucknow, India		
THEME	PET (Public Health & Environmental Toxicology)	ATTRACT (Analytical Tools, Techniques and Assays for Research Advancement of Competency in Toxicology)	DIPTox (Digital Interfaces and Predictive Toxicology)
	SESSION-21: Human Health Risk Assessment	SESSION-22: Food Toxicology and Food Safety	SESSION-23: Environment, Climate and Toxicological Effects
Chairpersons:	Dr Ratan Singh Ray , CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr Sonali Roy , RISE Foundation IISER, IISER-Kolkata Incubation Center Mohanpur, Nadia, India	Dr S Bijoy Nandan , Department of Marine Biology, University of Science and Technology, Cochin, India Professor Sudhir Pratap Singh , Gujarat Biotechnology University, Gandhinagar, Gujarat, IndiaLucknow	Dr Sanghamitra Bandhoupadhyay , CSIR-Indian Institute of Toxicology Research, Lucknow, India Professor Asamanja Chatteraj , Professor Kazi Nazrul University, Asansol, India
Rapporteurs:	Dr Prabhanshu Tripathi Dr Puneet Khare	Dr Pradeep Sharma Mr Jai Sanker	Dr Ashish Dwivedi Dr Sandeep Singh

Association of Toxicologists and Risk Assessors (ASTRA)

Science for Safety, Health and Environment



- Head Quarters** : CSIR-Indian Institute of Toxicology Research Main Campus, 31 MG Marg, Lucknow, 226001
- Objectives** : Advancement of all aspects of science and technology relating to the field of toxicology and health risk assessment
- Mission** : To provide opportunities for the dissemination and exchange of knowledge and experience primarily among professionals of toxicology and risk assessment and also among the public and society at large.

Membership Category		fee (INR)	
		Up to 31 st December, 2025 [@]	1 st January, 2026 onwards
For Individuals	Life Members (Faculty / Staff)	7,000/-	10,000/-
	Student Member (01 Year)	3,500/-	5,000/-
For Organizations	Academic or Research organization	20,000/-	25,000/-
	Corporate or Industry (valid for 5 years)	35,000/-	50,000/-

[@] Discounted membership fee

Membership benefits :

- All the life members and organizations will get a welcome kit. In addition, all members will get free access to online seminars organized by ASTRA and subsidized registration to any of the workshops/conferences organized by ASTRA. Also, all the members will get discounted subscription/publication offers in journals to be launched by ASTRA in the future.
- In addition to the above Corporate members will get a higher tier of sponsorship status by paying lower tier fee and the logo of the corporate will be displayed on the ASTRA website for five years

Membership fees should be paid preferably through NEFT/RTGS. Otherwise, payments can be made through DD/multicity Cheques in favor of "Association of Toxicologists and Risk Assessors", payable at Lucknow.

BANK DETAILS:

Account Name : Association of Toxicologists and Risk Assessors
Account No. : 42756753054
IFSC Code : SBIN0014626
Address : State Bank of India, IITR Branch M. G. Marg, Lucknow

For more details, please contact/write to: astraindia2024@gmail.com

**FOR ASTRA
Membership FORM
SCAN HERE**





14th November, 2025, Friday



15:00-15:30	PL-15: Translational Dimensions of Health and Environmental Research – Bridging Academia, Innovation, and Impact- Dr Sonali Roy, RISE Foundation IISER, IISER-Kolkata Incubation Center, Mohanpur, Nadia, India	PL-16: Exploration of diverse ecological niches for genes to gene products and their benevolence to society Professor Sudhir Pratap Singh, Gujarat Biotechnology University, Gandhinagar, Gujarat, India	PL-17: The Effect of Artificial Light at Night (ALAN) on the Chronodisruption of Gut Rhythmicity and Microbiota Composition in Zebrafish: An Impact on Metabolic Health Professor Asamanja Chatteraj, Kazi Nazrul University, Asansol, India
15:30-15:50	IL-69: Awareness of hidden forms of asbestos: Stone, talc, automobiles, buildings, water and soil Dr Raja Singh, Department of Environmental and Occupational Health, Drexel University, Philadelphia, USA	IL-71: Emerging Processing Strategies to Enhance Millet-Based Foods: Nutritional, Functional, and Health Perspectives Dr Manoj Kumar Tripathi, Department of Biochemistry, ICAR-Central Institute of Agricultural Engineering	IL-74: Ultra stable, non-toxic fluorophores for robust biological imaging Dr Avik Kumar Pati, Department of Chemistry, BITS Pilani, Pilani Campus, Pilani, India
15:50-16:10	IL-70: Evaluation of homeopathic preparations of Berberis aquifolium and Berberis vulgaris against cervical cancer Professor Alok Chandra Bharti, Department of Zoology, University of Delhi, Delhi, India	IL-72: Decoding Culinary Bio-actives: An AI-Driven Investigation into the Health Impacts of Food-Based Phytochemicals Dr Rishemjit Kaur, CSIR-Central Scientific Instruments Organisation, Chandigarh, India	IL-75: Formulation and Synergistic Antioxidant Effects of Hydrogen-Generating Herbal Effervescent Tablets Professor Amit Verma, School of Pharmacy, Chandigarh University, Unnao, India
16:10-16:30		IL-73: From Molecular Graphs to Quantum Clouds: Computational Approaches to Understanding and Predicting Smell	IL-76: Lights, Noise, and Lost Seasons: How Urban Stressors Disrupt Daily and Seasonal Physiology in Passerine Songbirds

The Association of Food Scientists and Technologists (India) Lucknow Chapter



Headquarters: Mysuru (www.afsti.org)

The Association of Food Scientists and Technologists (India), established in 1957, is one of the largest professional organizations, with around 4000 members - food scientists and technologists, across the globe. The major objective of AFST(I) is to stimulate and advance knowledgebase on various aspects of Food Science and Technology. The association serve the community for healthy & safe food and also promote & recognizes talent and excellence in the profession of Food Science and Technology by conferring various Awards and Fellowship. A local chapter of AFST (I) was established at CSIR-IITR, Lucknow on December 20, 2022 with Lucknow regional members to support and strengthen the goals of the association on food safety & security through various activities.



14th November, 2025, Friday



		Dr Ritesh Kumar, CSIR-Central Scientific Instruments Organisation, Chandigarh, India	Professor Shalie Malik, Department of Zoology, University of Lucknow, India
16:00-18:30	SESSION 24: Oral Presentations by Young Scientists (Hall 1) OP15-OP29		
Chairs:	Dr B N Singh, Former Chief Scientist, CSIR-Central Drug Research Institute, Lucknow, India Professor Irfan Rahman, Director, Flavor Inhalation Toxicology Research, Rochester Medical Center, USA Professor Asamanja Chattoraj, Kazi Nazrul University, Asansol, India		
19:00-19:30	AGBM meeting ASTRA at SS Bhatnagar Hall, 2nd Floor CSIR-IITR Main Campus, M G Road, Lucknow		
19:30 onward	CSIR-Indian Institute of Toxicology Research, Lucknow, India		



“मुस्कुराएँ आप लखनऊ में हैं”

Lucknow City



Lucknow is the capital and the largest city of the Indian state of Uttar Pradesh. This bustling city, famed for its Nawabi era finesse and amazing food, is a unique mix of the ancient and the modern. The city is historically renowned and is home to extraordinary monuments depicting a fascinating blend of ancient, colonial and oriental architecture. It continues to be an important centre of governance, administration, education, culture, tourism, music and poetry.

Among the magnificent monuments are Imambara, Rumi Darwaza, Kaiserbagh Heritage Zone, Residency and Dilkusha. The chikan embroidery and zardozi have made Lucknow a brand in global fashion. Lucknow is also famous for its two lip-smacking delicacies kababs and biryani that beckon visitors again and again. The city is well connected to all parts of the world by air and road.



CHHOTA IMAMBARA, LUCKNOW



HANUMANT DHAM, LUCKNOW



NAIMISHARANYA



SHRI RAM MANDIR, AYODHYA



RESIDENCY, LUCKNOW



B.R. AMBEDKAR PARK, LUCKNOW



KUMBH MELA, PRAYAGRAJ



VARANASI



15th November, 2025, Saturday



	Hall 1 S H Zaidi Auditorium	Hall 2 P K Ray Auditorium	Hall 3 Networking Hall, TDIC Building
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)
	SESSION-25: Emerging Contaminants	SESSION-26: Environment and Reproductive Toxicology	SESSION-27: Environment and Reproductive Toxicology
Chairpersons:	Dr Narayan Prasad, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India Dr Arpita Singh, Dr Ram Manohar Lohia Institute of Medical Sciences, Lucknow, India	Dr Ravi Ram Kristipati, CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr Divya Singh, CSIR- Central Drug Research Institute, Lucknow, India	Dr Jaswant Singh, Director, Institute of Earth & Environmental Sciences, Dr RML Avadh University, Ayodhya, India Professor N.G. Prasad, Department of Biological Sciences, IISER Mohali, Knowledge city, SAS Nagar, Manauli, India
Rapporteurs:	Dr Akhilesh K Yadav Ms Kanchan Sonkar	Dr Nandita Dasgupta Dr Sangam Rajak	Dr Abhay Bajaj Dr Pankaj Jagdale
09:30-10:00	PL-18: Heat Shield: A Search for Thermotolerance Via Exogenous Chemical Regime Professor Lawrence Harshman, University of Nebraska-Lincoln, USA	PL-19: How does Drosophila male-female communication via extracellular vesicles contribute to our understanding of human infertility? Professor Yael Heifetz, Hebrew University of Jerusalem, Jerusalem, Israel	PL-20: Transgenerational effects of parental infection in Drosophila Professor N.G. Prasad, Department of Biological Sciences, IISER Mohali, Knowledge city, SAS Nagar, Manauli, India
10:00-10:20	IL-77: Toxic consequences of chemicals adsorbed on Microplastics	IL-81: Gaseous toxicant-induced reproductive disorders	IL-85: Phytochemical analysis and preclinical chondrogenic potential of promising medicinal plants

Major Markets of Lucknow

“मुस्कुराइए आप लखनऊ में हैं”

Lucknow has its own distinct culture, special dishes and has an ancient history. For this reason, people from every corner of the world come to see the culture of Lucknow every year and enjoy the Nawabi food here.

Chowk Bazaar: Chowk Bazaar of old Lucknow is very famous for jewellery, sweets, delicious chaat shops and chikan clothes.

Aminabad Bazar: Aminabad market of Lucknow, 2 km away from CSIR-IITR, is famous for books, beautiful clothes and jewellery. The Gadbad Jhala shops have cosmetics for women and various other types of decorative items.

Hazratganj: Hazratganj is the most happening place in Lucknow. There are many good restaurants in Hazratganj for vegetarian, non vegetarian including awadhi and mughlai cuisines. There is also a big showroom of Gandhi Ashram for different types of clothes including Khadi clothes. The coffee house here has been very popular. There is Kashmir Emporium, Raymond Showroom, Titan Watches Showroom and Sahara Ganj Mall for Kashmiri handicrafts. Along with this, the State Legislative Assembly building and GPO are also in Hazrat Ganj. Hazratganj also has the Postmaster General's Office (PMG), Northern Railway's Divisional Office (DRM Office), Cathedral Church, Zoo, Parivartan Chowk, and nearby parks including GPO Park, Lalbagh Park and Begum Hazrat Mahal Park.

Other Markets of Lucknow

Other Markets of Lucknow Apart from this, Sadar Bazar, Charbagh, Naka Hindola, Narhi, Lalbagh, Kesarbagh, Alambagh, Shringar Nagar, Nakhas, Nehru Cross and Yahiya Ganj, Nishatganj and Gol Market, Daliganj, Bhootnath (Indira Nagar), Patrakar Puram (Gomti Nagar) etc.



Major educational institute in Lucknow Lucknow University

Sir H. Butler, the President, outlined the proposed plan for the new university in November 1919. The Administrative Body of the University was constituted in March, 1921 and its first meeting was held on 21st March, 1921, which was presided over by the Chancellor. Other university authorities like the Executive Council, Academic Council and Faculties came into existence in August and September, 1921. On July 17, 1921, the teaching work in the university started. Teaching in Arts, Science, Commerce and Law Faculties was being done in Canning College and in Medical Faculty in King George's Medical College and Hospital. Canning College was handed over to the University on 1 July, 1922, although prior to this date, the buildings, equipment, staff, etc. belonging to Canning College were placed under the control of the University for the purposes of teaching. King George's Medical College and King George's Hospital were transferred to the University on March 1, 1921 by the government. In very short words, this is how today's Lucknow University has come into existence while slowly moving towards progress.

Lucknow University, Lucknow 226 007, Uttar Pradesh | Email, General Information : info@lkouniv.ac.in





15th November, 2025, Saturday



	Professor S Raisuddin, Jamia Hamdard, Delhi, India	Dr Asmita Patil, Department of Physiology, AIIMS, New Delhi	Dr Mohd Arshad, Department of Zoology, Aligarh Muslim University, Aligarh, India
10:20-10:40	IL-78: Microplastics- induced Metabolic Crisis in Biological Systems unveiled through Metabolomics and Lipidomics-based approaches Dr Ratnasekhar CH, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow, India	IL-82: Sirtuin 5: A New Therapeutic Target for Osteoporosis? Dr Divya Singh, CSIR- Central Drug Research Institute, Lucknow, India	IL-86: Perspective on Climate Change and Air Pollution in India. Professor Shakeel Ahmad Khan, ICAR- Indian Agricultural Research Institute New Delhi, India
10:40-11:00	IL-79: From Sunscreens to Streams: Unveiling the Toxicity of 4- Methylbenzylidene Camphor on Zebrafish Development, Behaviour, and Reproduction Dr Sadasivam Anbumani, CSIR-Indian Institute of Toxicology Research, Lucknow, India	IL-83: Reproductive processes, new targets for Aedesaegypti control Dr Catalina Alfonso- Parra, Colombian Institute for Tropical Medicine, CES University, Sabaneta, Colombia	IL-87: Modeling Bisphenol A's Dual Toxicity: Insights into Metabolic and Reproductive Disruption in Drosophila Dr Snigdha Mishra, University of Petroleum and Energy Studies, Dehradun, India
11:00-11:20	IL-80: Tracing the Roots of Food Toxicity: Artificial Ripeners, Nanoparticle Migration, and Health Implications Professor Neetu Singh, Department of Food and Nutrition, Babasaheb Bhimrao Ambedkar University, Lucknow, India	IL-84: Inflammation- associated chemokine, MCP-1, signaling targets ameliorate endometriosis at the preclinical level. Dr Rajesh Kumar Jha, CSIR- Central Drug Research Institute, Lucknow, India	IL-88: Environmental toxicants on reproductive health- emphasis on organophosphates Dr Srinivasa Jayachandra, MPKB Medical College and Hospital, Atkot, Gujarat, India
11:20	Tea at the Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		

PLATINUM SPONSORS

Waters™


Ultra International Limited
Fragrances, Flavours & Essential Oils

Our Thirst Quencher



GOLD SPONSORS



BRONZE SPONSORS





15th November, 2025, Saturday



THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	
	SESSION-28: Mechanistic Toxicology	SESSION-29: Analytical Approaches in Risk Analysis	
Chairpersons:	Professor Suhel Parvez, Jamia Hamdard, Delhi, India Dr Monisha Banerjee, Zoology Department, Lucknow University, India	Dr Dhirendra Singh, CSIR-Indian Institute of Toxicology Research, Lucknow, India Dr M K R Mudiam, Director, Institute of Pesticide Formulation Technology, Gurugram- 122016, Haryana State, India	
Rapporteurs:	Dr Ashish Dwivedi Dr Sandeep Singh	Dr Prabhanshu Tripathi Ms Kalpana Padalia	
11:15-11:45	PL-21: Neuromodulatory Potential of a Polyherbal Formulation Against Scopolamine-Induced Cytotoxicity via Downregulation of AChE and Upregulation of BDNF/CREB. Professor Suhel Parvez, Jamia Hamdard, Delhi, India	PL-22: From Exposure to Effect: The Analytical and Metabolomic Dimensions of Toxicology Dr M K R Mudiam, Director, Institute of Pesticide Formulation Technology, Gurugram, India	
11:45-12:05	IL-89: Antimicrobial Resistance: Contaminants of Emerging Concern & Sustainable solutions Dr Preeti Chaturvedi, CSIR-Indian Institute of Toxicology Research, Lucknow, India	IL-92: Fluorogenic Probes for Rapid Detection of Food Contaminants: A New Frontier in Agricultural Safety Monitoring Professor Nilanjan Dey, Department of Chemistry, Birla Institute of Technology & Science, Hyderabad, India	

GOVERNMENT ORGANIZATIONS



सत्यमेव जयते
DSIR

DEPARTMENT OF SCIENTIFIC
AND INDUSTRIAL RESEARCH



सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

CO-ORGANIZERS



CSIR-Central Drug Research Institute, Lucknow



सीएसआईआर का अंतर्विषयी आयाम
Interdisciplinary face of CSIR

KNOWLEDGE PARTNERS





15th November, 2025, Saturday



12:05-12:25	IL-90: A Sensitive Approach for Identifying Peptide-specific CD4⁺ T Cell Responses in Peripheral Blood of Myasthenia Gravis Patients Dr Sapna Sharma, Uttar Pradesh State Institute of Forensic Science, Lucknow, India	IL-93: Creating our own path: Laboratory at Center for Chronic Disease Control Dr Ruby Gupta, Centre for Chronic Disease Control, Centre for Health Analytics and Research Trends, Ashoka University, Delhi, India	
12.25-12.45	IL-91: High-Resolution ¹H NMR metabolomics uncovers altered metabolic pathway and candidate biomarker in Renal Cell Carcinoma Dr Naveen K. Gautam, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India	IL-94: Regulatory Toxicology studies and data interpretation special reference to toxico-pathology Dr Madhav Nilakanth Mugale, CSIR-Central Drug Research Institute, Lucknow, India.	
12:45-14:00	Lunch at Institute's Lawn, Banyan Tree Selfie Point, CSIR-IITR		
15:00-16:00	Valedictory function at CSIR-IITR Lawn		

NOTES





NOTES

NOTES





NOTES

NOTES





NOTES

NOTES





NOTES

NOTES





NOTES

NOTES





NOTES

NOTES





NOTES



Inspired



Sourced



Bottled

ARTFULLY COMPOSING
TIMELESS FRAGRANCES

that enchant the senses and linger in memory



Meet the Xevo MRT

Connect with us to discover the benefit of 100K FWHM resolution at acquisition rates up to 100 Hz

Achieve exceptional science 100% of the time.

Delivering
Performance
at **SPEED**



waters.com/XevoMRT

Waters (India) Pvt. Ltd.

36A, 2nd Phase, Peenya Industrial Area, Bangalore - 560 058. Tel: 080-49292200-03 (3 lines),

Fax: 080-49292204, E-mail: Waters_India@waters.com

(87;./;&A+ ""%"&\$+!"&)'(#)?1/<;4=1AA*.951;472

+*,A%!"! #"\$%\$%%AA+),A0.@.6.74-:.7;8:3'>.19: /86A



"We are not only LOCAL but also GLOCAL, We are CSIR"



"Untill all of us have succeeded none of us have "



विषविज्ञान भवन, 31
महात्मा गांधी मार्ग
लखनऊ-226001, उ.प्र., भारत

Vishvigyan Bhawan, 31,
M.G. Marg, Lucknow-226001
U.P., India



www.iitr.res.in

सीआरके कैम्पस, गेहरु, सरोजनी नगर
औद्योगिक क्षेत्र, कानपुर रोड
लखनऊ-226008, उ.प्र., भारत

CRK Campus, Gheru, Sarojani Nagar
Industrial Area, Kanpur Road
Lucknow - 226008, U.P., India