



EARTH-2024



Tentative Scientific Program

DAY 1:	Wednesday, November 27, 2024		
Venue:	S H Zaidi Auditorium		
12:00-Onwards	Registration		
Chairpersons:	ASTRA Distinguished lecture/ Key Note Address: Redefining paradigms for health impact assessment for air pollution in India		
Dr D Kanungo	Professor Kalpana Balakrishnan, PhD, FAMS Dean (Research) and Director		
Dr. Chindi Vasudevappa	World Health Organization Collaborating Center for Occupational and Environmental Health ICMR Center for Advanced Research on Air Quality, Climate and Health Sri Ramachandra Institute for Higher Education and Research, Chennai, India		
	Key Note Lecture: Dr S. K. Pattanayak, Senior Advisor, FARE Labs Pvt. Ltd.		
18:30	Cultural Programme		
19:30	Dinner		
DAY 2:	Thursday, November 28, 2024		
	Hall 1 S H Zaidi Auditorium	Hall 2 P K Ray Auditorium	Hall 3 Exhibition Hall (TDIC)
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	RATE (Risk Analysis: Techniques & Existing & Emerging Risks)
	SESSION-1 Human health risk assessment	SESSION-2 Cancer Biomarkers	SESSION-3 New approach methodologies (NAMs) in Toxicology
Chairpersons:	Dr Anuj Maheshwari, Hind Institute of Medical Sciences, Lucknow Dr Subhrajit Saha, University of Kansas Medical centre, Kansas	Dr Rajiv R. Mohan, University of Missouri, Columbia, USA Dr T S Rana, Head CSIR-HRDC, Ghaziabad	Dr D. Kar Chowdhuri, Former Chief Scientist, CSIR-IITR, Lucknow Dr Chetna Singh, Senior Principal Scientist, CSIR-IITR, Lucknow



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Rapporteurs:	Dr Mohan CD Mr Sandeep Negi	Dr Pradeep Kumar Sharma Ms Kanchan Sonkar	Dr Raja Gopal Rayavarapu Dr Sumana Y Kotian
09:30-10:00	PL-1: Stem Stroma& Beyond Biology of Mitigation of Radiation Toxicity Dr Subhrajit Saha , University of Kansas Medical centre, Kansas City, Kansas, USA	PL-2: Investigating Immune Cells as a potential biomarker to limit tumor development Dr Manoj Mishra , Alabama State University, Montgomery, AL, USA.	PL-3: Scaling In Vivo Phenotypic Screening with Zebra fish to Help Achieve Predictive Toxicity Goals Dr Robyn Leigh Tanguay , Oregon State University, USA.
10:00-10:20	IL-1: Climate Change and Heart Disease Dr Sanjay Srivastava , University of Louisville, KY, USA.	IL-4: Epigenetics meets Precision Medicine: Opportunities for Stratification and Improved Outcome in Non-Small Cell Lung Cancer. Dr Aamir Ahmad , Translational Research Institute, Doha 3050, Qatar.	IL-7: <i>Drosophila</i> lymph gland: Model to study environmental chemicals induced hematopoietic emergencies Dr Anurag Sharma , Nitte University Center for Science Education Research (NUCSER), Nitte (Deemed to be University), Mangalore.
10:20-10:40	IL-2: Gender differences in counteracting toxic gas inhalation induced-lung toxicity. Dr Saurabh Aggarwal , Florida International University, Miami, USA	IL-5: Mitochondria in Cancer: Insights into Adaptation, Prognosis, and Therapeutic Opportunities. Dr Lokendra Sharma , Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow	IL-8: Bisphenol A-induced obesity, as a model to study obesity-associated male reproductive dysfunction in <i>Drosophila melanogaster</i> . Dr Snigdha Mishra , Cornell University USA, Ithaca, NY, USA.
10:40-11:00	IL-3: Enhanced thermophilic dark fermentation of hydrogen production from food waste by Fe-modified biochar Dr Yen Wah Tong , National University of Singapore, Singapore.	IL-6: Maintenance of Cancer stem cell during Epithelial to Mesenchymal Transition in Oral Squamous Cell Carcinoma Dr Satyendra K Singh , King George`s Medical University, Lucknow	IL-9: Role of Hsp27 in protection of cadmium-induced nephrotoxicity in <i>Drosophila melanogaster</i> . Dr Naveen Gautam , Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow
11:00	Tea at Institute`s Lawn, CSIR-IITR Main Campus, M.G. Road, Lucknow		



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THEME	PET (Public Health & Environmental Toxicology)	ATTRACT (Analytical tools, Techniques and Assays for Research Advancement of Competency in Toxicology)	ATTRACT (Analytical tools, Techniques and Assays for Research Advancement of Competency in Toxicology)
	SESSION-4 Target organ toxicity	SESSION-5 Systems and Integrative Toxicology	SESSION-6 Systems and Integrative Toxicology
Chairpersons:	Prof Alok Dhawan, Director CBMR, Lucknow Dr Neera Tewari-Singh, Institute for Integrative Toxicology, Michigan State University, MI, USA	Prof Nuzhat Husain, Professor of Pathology, RMLIMS, Lucknow Dr Poonam Kakkar, Former Chief Scientist, CSIR-IITR, Lucknow	Dr Vinay K Khanna, Former Chief Scientist, CSIR-IITR, Lucknow Prof S Raisuddin, Jamia Hamdard, New Delhi
Rapporteurs:	Dr Preeti Bhardwaj Ms Nidhi Arjaria	Dr Anurag Tripathi Dr Bhumika Ray	Dr Nidhi Gupta Mr Jai Shanker
11:15-11:45	PL-4: Characterization of novel mechanisms and targets to stop blindness and restore vision following toxic/vesicating chemical exposure to eyes. Dr Rajiv R. Mohan, University of Missouri, Columbia, USA	PL-5: Identifying hidden GEMs in neurological diseases Prof Udai Bhan Pandey, University of Pittsburgh Medical Center, Pittsburgh, USA	PL-6: Environmental Chemicals and their Impact on Health Economics Prof S Raisuddin, Jamia Hamdard, New Delhi
11:45-12:05	IL-10: Cell-based therapy, Biomaterials in Ocular research: Safety and Ethical considerations Dr Vivek Singh, L V Prasad Eye Institute, Telangana, Hyderabad.	IL-15: HMGCR Inhibitors and Dopamine Agonists as Repurposed Drugs for Targeting Alzheimer's Disease Dr Suhel Parvez, School of Chemical and Life Sciences, Jamia Hamdard, New Delhi	IL-20: Noncoding RNAs in Traumatic Brain Injury : Clues to Diagnosis & Therapy Dr D P Mishra, CSIR-Central Drug Research Institute Lucknow.
12:05-12:25	IL-11: Corneal Toxicity from ocular chemical threat agent exposures: Mechanisms and Treatments.	IL-16: PTR-10, the C. elegans Homolog of Human PTCHD1, Plays a Crucial Role in Neuroprotection	IL-21: HCMV miRNAs: Emerging Approaches in Risk Analysis and Translational Aspects of Health and Environment.



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	Dr Neera Tewari Singh , Institute for Integrative Toxicology Michigan State University, MI, USA	Dr Aamir Nazir , Central Drug Research Institute, Lucknow	Prof Sunil Babu Gosipatala , Babasaheb Bhimrao Ambedkar University, Lucknow
12:25-12:45	IL-12: Proper lipid metabolism ensures reduced risk of severe ROP among preterm infants. Dr Inderjeet Kaur , L V Prasad Eye Institute, Hyderabad.	IL-17: Divergent effects of arsenic exposure in organs and species. Dr Ashok Datusalia , National Institute of Pharmaceutical Education and Research Lucknow	IL-22: Targeting MicroRNAs by Natural Products: A Novel Therapeutic Approach for Osteoporosis Dr Divya Singh , CSIR-Central Drug Research Institute Lucknow
12:45-13:05	IL-13: CS Tear Gas Agent-induced Skin Injuries: Potential Drug Targets, Biomarkers, and Medical Countermeasures. Dr Satyanarayana Achanta , Yale University School of Medicine, USA	IL-18: Neurotoxic Effects of Synthetic Pyrethroids through Mitochondrial Impairment and Autophagy Dysregulation. Dr Abhishek Mishra , University of Bihar, Munger, Bihar, INDIA	IL-23: CoenzymeQ10 and phloretin attenuate arsenic and chromium-induced oxidative damage via modulating the SIRT1/NRF2/HO-1 pathway in the Swiss albino mice Dr Gyanendra Singh , ICMR-National Institute of Occupational Health, Ahmedabad, Gujarat.
13:05-13:25	IL-14: Micro plastics and Chronic Kidney Disease: Risk and Mechanistic Insights. Dr Vikas Srivastava , CSIR-IITR, Lucknow.	IL-19: DNA Repair Deficits and Its Links to Neurodegeneration and Dementia. Dr Mohd. Moshahid Khan , University of Tennessee Health Science Center, Memphis, TN, USA.	IL-24: Elucidating the Role of Metabolic Mechanisms of Drug Resistance in Glioblastoma multiforme Dr Ashutosh Srivastava , King George's Medical University, Lucknow.
13:25-14:30	Lunch at Institute's Lawn, CSIR-IITR Main Campus, M.G. Road, Lucknow		
14:00-16:00	SESSION-7: Poster presentations		
Convenor:		Preeti Chaturvedi & Rachna Kumar	



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14:30-16:00	Industry academia meet at S H Zaidi Auditorium		
Convenor:	Dr Parthasarathi Ram		
	Farelabs, Ultra International, Startups		
15:45-16:00	Tea at Institute's Lawn, CSIR-IITR Main Campus, M.G. Road, Lucknow		
THEME	PET (Public Health & Environmental Toxicology)	RATE (Risk Analysis: Techniques & Existing & Emerging Risks)	RATE (Risk Analysis: Techniques & Existing & Emerging Risks)
	SESSION-8 Genotoxicity and carcinogenesis	SESSION-9 Emerging contaminants	SESSION-10 Emerging contaminants
Chairpersons:	Dr M.M. Srinivas Bharath Professor National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore Dr S K Rath, Chief Scientist, CSIR-CDRI, Lucknow	Dr Satyen Panda, Advisor (Quality), FSSAI, New Delhi Dr Robyn Leigh Tanguay, Oregon State University, USA	Dr Joanne Ho, Waters India Pvt Ltd Dr D K Patel, Chief Scientist, CSIR-IITR, Lucknow
Rapporteurs:	Dr Preeti Bhardwaj Ms Kalpana Padalia	Dr Mohan CD Ms Deepali Tripathi	Dr Nidhi Gupta Dr Sumana Y Kotian
16:00-16:30	PL-7: Issues Relevant to Human Health Risk Assessment and Challenges Dr S K Rath, CSIR-Central Drug Research Institute, Lucknow	PL-8: Microplastics: Exploring Male Reproductive Toxicity and Metabolic Alterations in the Context of Health Risk Analysis. Dr Sapna Kushwaha, National Institute of Pharmaceutical Education and Research, Lucknow.	PL-9: Global Regulatory Landscape for Contaminants in Food Mr Shrinivas Joshi, Food & Environment Market Waters India Pvt Ltd, II-Phase, Bangalore.
16:30-16:50	IL-25: LINC00324 Promotes Metastasis in Esophageal Cancer	IL-28: Characterization and toxicity assessment of environmental micro plastics	IL-31: Emerging contaminants (PFAS) in Environment – Outlook



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	Dr Aklank Jain , Central University of Punjab, Bathinda, Punjab.	Dr H P Gurushankara , Central University of Kerala, Kerala.	Dr Joanne Ho , Waters India Pvt Ltd, II Phase, Bangalore.
16:50-17:10	IL-26: Decoding Metabolome-Linked Long Non-Coding RNAs, and Cancer Stem Cells Signatures in Breast Cancer Dr Subhash Gupta , All India Institute of Medical Sciences, Guwahati, Assam.	IL-29: Microplastics in Food and Food Products: Global trend, Health Impact, Analysis and Challenges Dr Atish Paul , Birla Institute of Technology and Science, Rajasthan	IL-32: Practical approach/workflow of PFAS analysis in Food & Environment Dr Daniel Ng , Waters India Pvt Ltd, II Phase, Bangalore.
17:10-17:30	IL-27: Unraveling the differential role of GABARAPs in Glial pathogenesis Dr Bhawana Bissa , Central University of Rajasthan, Ajmer, Rajasthan.	IL-30: RPA: CRISPR/Cas12a-based molecular diagnostic kit for detection of Scrub typhus Dr Rajeev Singh , ICMR-Regional Medical Research Center, Gorakhpur.	IL-33: PFAS in water and food: implementation in CSIR-IITR Dr D K Patel , Chief Scientist, CSIR-IITR, Lucknow
19:00 onwards	Gala Dinner		
DAY 3:	Friday, November 29, 2024		
THEME	Venue: S H Zaidi Auditorium DIPTox (Digital Interfaces and Predictive Toxicology)	Venue: P K Ray Auditorium DEMAT (Development and Management of Toxicology Facility)	Exhibition Hall, TDIC Building DEMAT (Development and Management of Toxicology Facility)
	SESSION-11: Omics/ high-throughput approaches towards toxicological responses	SESSION-12: Waste treatment and management	SESSION- 13: Environmental monitoring



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Chairpersons:	Dr Ohmiya Yoshihi, Zuiko 2-5-34, Osaka, Japan Dr Ivana Radojic Redovniković, University of Zagreb, Croatia	Dr Si Jae Park, Ewha Womans University, Seoul, South Korea Dr Yogeshwer Shukla, Chief Scientist, CSIR-IITR, Lucknow	Dr Drogui Allali Patrick, Eau Terre Environment Research Centre, Québec City, CANADA Dr Byong-Hun Jeon, Hanyang University, Seoul, South Korea.
Rapporteurs:	Dr Sheelendra Pratap Singh Dr Beena Vamadevan	Dr Nandita Das Mr Pankaj Jagdale	Dr Sreekanth Mr Sandeep Negi
09:30-10:00	PL-10: Environmental Monitoring and Biomonitoring: Contaminants of Emerging Concern and Risk Assessment Dr M K R Mudiam, Institute of Pesticide Formulation Technology	PL-11: Metabolic engineering of microorganisms for sustainable production of chemicals and polymers Dr Si Jae Park, Ewha Womans University, Seoul, South Korea	PL-12: Harnessing Waste Substrates: Circular Solutions in Bioplastic Production Dr Rajeshwar Dayal Tyagi, INRS Eau, Terre et Environnement, Quebec City, Quebec, Canada
10:00-10:20	IL-34: A ¹ H NMR-based metabolomics study of advanced-stage chronic kidney disease patients Dr Bikash Baishya, Centre of BioMedical Research, SGPGIMS, Lucknow	IL-37: Integrated mine waste management to reduce water pollution in Liberia: Cleaner production and biotechnological approaches Dr Eldon R. Rene, IHE Delft Institute for Water Education, The Netherlands	IL-40: Acetate: A Sustainable Feedstock for Biomanufacturing - Potential, Challenges, and Advances Dr Sung Hoon Park, Eon-Yang-Eup, Ulju-Gun, Ulsan, Korea.
10:20-10:40	IL-35: Application of DCFDA dye from Toxicology to Forensic Biotechnology: An approach to Minimizing Occupational health risk and Improving DNA Profiling Dr Ritesh K Shukla, Ahmedabad University, Central Campus, Ahmedabad, Gujarat.	IL-38: Fungal-based biorefinery: from residuals to value-added products Dr Mohammad Jafar Taherzadeh Esfahani, University of Borås, Sweden.	IL-41: Prescribing Seawater Quality Standards for heavy metals in Indian Waters using Ecotoxicological Approach Dr S Bijoy Nandan, Cochin University of Science and Technology, Cochin



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10:40-11:00	IL-36: Ecotoxicological risk assessment of Imidacloprid on <i>Macrobrachium rosenbergii</i> using an untargeted metabolomics approach Dr Nilladri Chatterjee , ICAR-Central Institute of Fisheries Technology, Matsyapuri, Cochin.	IL-39: Hydrothermal pretreatment with and without oxidant for biogas production from industrial and municipal residues: a case study utilizing sludge from an augmented oxidation ditch Dr Lisandra Meneses , Estonian University of Life Sciences, Institute of Forestry and Engineering, ESTONIA.	IL-42: Health risk estimation at landfill site at Nagpur due to bio aerosol exposure Dr Krishnamurthi Kannan , CSIR-NEERI, Nehru Marg, Nagpur.
11:00	Tea at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		
THEME	PET (Public Health & Environmental Toxicology)	DEMAT (Development and Management of Toxicology Facility)	PET (Public Health & Environmental Toxicology)
	SESSION-14 Food Safety and Quality	SESSION-15 Bioremediation of hazardous wastes	SESSION-16 Hazards identification, characterization and Risk
Chairpersons:	Dr P C Pancanchariya , Director, CSIR-CEERI, Pilani, Rajasthan Dr M K R Mudium , Director, Institute of Pesticide Formulation Technology (IPFT), Gurugram	Dr Rajeshwar Dayal Tyagi , INRS Eau, Terre et Environnement, Quebec City, Quebec, Canada Dr Natesan Manickam , Chief Scientist, CSIR-IITR, Lucknow	Dr Rui Manuel Freitas Oliveira , Universidade Nova de Lisboa (FCTUNL), Portugal. Dr Thilini Udayangani , University of Moratuwa, Katubedda, Moratuwa, Sri Lanka
Rapporteurs:	Dr Bhumika Ray Ms Supriya Sharma	Dr Abhay Bajaj Mr Deepali Tripathi	Dr Rachana Kumar Ms Nidhi Arjaria
11:15-11:45	PL-13: Innovations in Green-Nanomedicine for Applications in Oncology, Treating Drug-Resistant Bacteria (MRSA-Antibiotics) and Deadly Viral Infections	PL-14: Development of multicolor illuminating cells for OECD-directed toxicological testing	PL-15: Reversal of epithelial to Mesenchymal transition in triple-negative breast cancer through epigenetic modulations by dietary flavonoid Galangin and its combination with SAHA



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12:45-13:05	IL-46: Evaluation of PFAS Contamination in Water Sources of Himachal Pradesh: Human Health Risk Assessment. Dr Nitin Verma, Chitkara University, Himachal Pradesh.	IL-51: Treatment of landfill leachate using extracellular polymeric substances (EPS) and electrocoagulation (EC) Dr Drogui Allali Patrick, Eau Terre Environment Research Centre, Québec City, CANADA	IL-56: Epigenome-Environment Interactions in Drosophila: A Pathway to Enhance Climatic Stress Tolerance. Dr Vineeta Sharma, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana.
13:05-13:25	IL-47: Harmful Algal Blooms: Causes, Ecological Impacts and Mitigation Strategies Dr Shivakumar Magada, Animal and Fisheries Sciences University College of Fisheries, Mangalore.	IL-52: Tolerance and biodegradation of high concentration of phenol by a bacterial consortium enriched from the Hurricane Ida sediments Dr Ramaraj Boopathy, Nicholls State University, Thibodaux, Louisiana, USA.	IL-57: Renewable Stem Cells & Their Extracellular Products as Screening Platforms for Toxicological Studies Dr Dipak Kumar, Munger University (India)
13:25-14:30	Lunch at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		
13:45-15:45	SESSION17: Poster Presentations(Venue: In front of TDIC Building and Badminton Court))		
Convenors:	Dr Shilendra Pratap Singh &Dr Smriti Priya		
14:30-16:00	SESSION 18: Oral presentations by young scientists (HALL 1)		
Convenor:	Dr Debabrata Ghosh &Dr Raja Gopal		
15:45-16:00	Tea at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		
THEME	DIPTox (Digital Interfaces and Predictive Toxicology)	ATTRACT (Analytical Tools, Techniques and Assays for Research Advancement of Competency in Toxicology)	DIPTox (Digital Interfaces and Predictive Toxicology)
	SESSION-19: Human health risk assessment	SESSION-20: Food toxicology and food safety	SESSION-21: Artificial Intelligence/Machine Learning in Toxicology



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Chairpersons:	Dr Sunil Kaul, National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan Dr Alok K Pandey, Senior Principal Scientist, CSIR-IITR, Lucknow	Dr José António Teixeira, University of Minho, Porto, Portugal. Dr Ramaraj Boopathy, Nicholls State University, Thibodaux, Louisiana, USA.	Dr Brillard Alain, Université de Haute-Alsace, Mulhouse, France Dr Ramakrishnan Parthasarathi, Principal Scientist, CSIR-IITR, Lucknow
Rapporteurs:	Dr Prabhanshu Tripathi Dr Puneet Khare	Dr Pradeep Sharma Mr Jai Sanker	Dr Ashish Dwivedi Dr Sandeep Singh
16:00-16:30	PL-16: Mechanistic insights of delayed effects of heavy metal toxicity in lungs. Dr Ranu Surolia, University of Alabama at Birmingham, University Blvd., Birmingham.	PL-17: Inhibition of aspergillus flavus, Aspergillus niger and Aspergillus carbonarius growth and aflatoxin production by rhamnolipids produced by pseudomonas aeruginosa and burkholderia thailandensis Prof José António Teixeira, University of Minho, Porto, Portugal.	PL-18: Physics-Informed Neural Networks (PINNs) for Bioprocess Digitalization Dr Rui Manuel Freitas Oliveira, Universidade Nova de Lisboa (FCTUNL), Portugal.
16:30-16:50	IL-58: Need of point of care-testing (POCT) devices to assess drug concentration Dr Mohan Gurjar, Sanjay Gandhi Post Graduate Institute of Medical Sciences Lucknow.	IL-61: Exploration of diverse ecological niches for genes to gene products and their benevolence to society Professor Sudhir Pratap Singh, Gujarat Biotechnology University, Gandhinagar, Gujarat	IL-64: AI-Powered Toxicity Prediction: Transforming Chemical Risk Assessment with Machine Learning Models Dr Prachi Srivastava, Central Team Member POSH, AMITY University Uttar Pradesh
16:50-17:10	IL-59: DNA targeted drug development based on repurposing remodeling against cancer	IL-62: From Ingredients to Insights: Leveraging Large Language Models for Innovation in Food and Agriculture	IL-65: Computational methods/models for the development of Digital Interfaces and Predictive Toxicology (DIPTox) Dr Vaibhav Anil Dixit, NIPER Guwahati, Assam.



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	Dr Ugir Hossain S K , Chittaranjan National Cancer Institute, Mukherjee Road, Kolkata	Dr Rishemjit Kaur , Principal Scientist at CSIR, Chandigarh.	
17:10-17:30	IL-60: Introduction to lifestyle diseases Dr Suchit Swaroop , University of Lucknow	IL-63: Stored grain insect management: Current scenario and future prospects Dr C.S. Vivek Babu , Central Food Toxicological Research Institute.	IL-66: Steps and methods for the development of an epidemiological risk score for early prediction of outcomes: A discussion through a published article Dr Prabhakar Mishra , Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow.
17:30-18:30	Panel discussion Dr Prabhanshu Tripathi Ms Deepshikha Srivastava		
19:00-19:30	AGBM meeting ASTRA at SS Bhatnagar Hall, 2nd Floor CSIR-IITR Main Campus, M G Road, Lucknow		
19:00-20:30	Cultural Programme at Stage in the CSIR-IITR Lawn		
20:30 onward	Dinner at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		
DAY 4:	Saturday, November 30, 2024		
	Venue: S H Zaidi Auditorium	Venue: P K Ray Auditorium	Venue: CRK (NAIMISH), CRK Campus
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	DEMAT (Development And Management of Toxicology Facility)
	SESSION-22: Neutraceuticals for Health and Wellness	SESSION-23: Neutraceuticals for Health and Wellness	SESSION-24: Waste treatment and management
Chairpersons:	Dr Aditya B Pant , CSIR-IITR, Lucknow Dr Nandini Shetty , Principal Scientist, CSIR-CFTRI, Mysuru	Dr Aamir Ahmad , Translational Research Institute, Doha 3050, Qatar. Dr Ajaikumar B Kunnumakkara , Indian Institute of Technology Guwahati, Assam	Dr Jaswant Singh , Director, Institute of Earth & Environmental Sciences, Dr R ML Avadh university, Ayodhya Er A H Khan , Chief Scientist, CSIR-IITR
Rapporteurs:	Dr Akhilesh K Yadav Ms Kanchan Sonkar	Dr Anurag Tripathi Dr Nandita Dasgupta	Dr Abhay Bajaj Dr Pankaj Jagdale



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09:30-10:00	<p>PL-19: Development of human iPSC-derived 2D and 3D models for toxicity/safety assessment: CSIR-IITR's perspective</p> <p>Dr Aditya B Pant, CSIR-IITR, Lucknow</p>	<p>PL-20: Experimental evidence of the antistress and anticancer activities in Ashwagandha</p> <p>Dr Sunil Kaul, National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan.</p>	<p>PL-21: Gaseous and particulate emissions from the combustion of wood pellets</p> <p>Dr Brillard Alain, Université de Haute-Alsace, Mulhouse, France</p>
10:00-10:20	<p>IL-67: Exploring Phytochemicals as Novel MTH1 Inhibitors: A New Approach in Oxidative Stress and Toxicity Management</p> <p>Dr Imtiyaz Ahmad, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi</p>	<p>IL-70: Molecular link between stress and cancer: Molecular biology to intervention.</p> <p>Dr Renu Wadhwa Kaul, National Institute of Advanced Industrial Science & Technology (AIST), Osaka, Japan</p>	<p>IL-73: Micro plastics in drinking water: A case study of Thailand</p> <p>Dr Sandhya Babel, Thammasat University, Thailand</p>
10:20-10:40	<p>IL-68: Dr Anirban Pal - TBA</p>	<p>IL-71: Why Ashwagandha for Oral cancers?</p> <p>Dr Ajaikumar B Kunnumakkara, Indian Institute of Technology Guwahati, Assam</p>	<p>IL-74: A Himalayan lifeline at Jeopardy: Nepal's struggle against climate change</p> <p>Dr Ajay Kumar Rajbhandari, Patan Academy of Health Sciences, Nepal</p>
10:40-11:00	<p>IL-69: Efficacy and Toxicity paradox of Beta-Asarone: A Bioactive Molecule of Acorus calamus</p> <p>Dr Debabrata Chanda, CSIR- CIMAP, Lucknow.</p>	<p>IL-72: Translational Aspect of Apigenin in Prevention of Carcinogen-Induced liver cancer.</p> <p>Dr Hifzur Siddique, Aligarh Muslim University, Aligarh.</p>	<p>IL-75: Microalgae-integrated resource recovery from waste streams for bioremediation and sustainable production</p> <p>Dr Thilini Udayangani Ariyadasa, University of Moratuwa, Katubedda, Moratuwa, Sri Lanka</p>
11:00	Tea at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		Tea at Institute's Lawn, CSIR-IITR, CRK Campus, Lucknow



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THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	DEMAT (Public Health & Environmental Toxicology)
	SESSION-25: Mechanistic Toxicology	SESSION-26: Environmental Health	SESSION-27: Waste treatment and management
Chairpersons:	Dr Anirban Pal, Chief Scientist CSIR-CIMAP, Lucknow Dr Pankaj Seth, National Brain Research Centre (NBRC) Haryana	Dr Renu Wadhwa Kaul Senior Research Scientist, National Institute of Advanced Industriala Science & Technology (AIST), Osaka, Japan Dr Akshay Dwarakanath Senior Principal Scientist, CSIR-IITR, Lucknow	Dr Vinod Pravin Sharma, Chief Scientist, CSIR-IITR, Lucknow Professor Devendra Mohan, Professor and Former Head, Indian Institute of Technology (Banaras Hindu University) Varanasi
Rapporteurs:	Dr Ashish Dwivedi Dr Sandeep Singh	Dr Prabhanshu Tripathi Ms Kalpana Padalia	Dr Sreekanth Dr Beena Vamadevan
11:15-11:45	PL-22: Novel Insights into pathways of viral neurotoxicity – Implications in cognitive health Dr Pankaj Seth , National Brain Research Centre (NBRC) Haryana.	PL-23: Biodegradation of plastic polymers: Insights from pure culture and genomic studies Dr Natesan Manickam , CSIR-IITR, Lucknow	PL-24: A low-cost and environment-friendly approach for removal of arsenic employing solar oxidation Professor Devendra Mohan , Indian Institute of Technology (Banaras Hindu University) Varanasi.
11:45-12:05	IL-76: Nanotechnology Meets RA Therapy: Targeted Delivery of Methotrexate and RELA siRNA using Folate-Liposomes	IL-79: New insights in the mechanism of regulation of a catabolic dsz operon for the biodesulfurization of organosulfurs	IL-82: Challenges of Indoor Air Pollution Er. A H Khan , CSIR-IITR, Lucknow



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	Dr Ashutosh Kumar , School of Arts and Sciences Ahmedabad University, Ahmedabad.	Professor Preeti Srivastava , Indian Institute of Technology Delhi.	
12:05-12:25	IL-77: Stem Cell Therapy for Ischemic Stroke: Are We There Yet? Dr Shadab Raza , Era University, Lucknow	IL-80: Evaluation of the toxic potential of Ethyl methanesulphonate (EMS) on Hydra vulgaris Dr Yasir Hasan Siddique , Aligarh Muslim University, Aligarh.	IL-83: Industrial Potential of PETase from Microbial Sources for Sustainable Plastic Recycling Dr Monica Sharma , Babasaheb Bhimrao Ambedkar University, Lucknow
12:25-12:45	IL-78: Chitosan-Based Composite Beads for Toxicity Mitigation: Advanced Adsorption of Heavy Metals and Pharmaceuticals from Contaminated Water Dr Joydeep Dutta , Lovely Professional University, Phagwara, Punjab.	IL-81: Arsenic and Global Health: An Integrated Approach Towards Mitigation Dr Pritha Bhattacharjee , University of Calcutta, Kolkata	OL-84: Preventing systemic drug-induced ocular toxicity using non-therapeutic eye drops Dr Nirmal Jayabalan , Translational Pharmaceutics Research Laboratory (TPRL), Department of Pharmacy, Birla Institute of Technology and Science, Pilani, Hyderabad campus, Hyderabad, India.
12:45-13:45	Lunch at Institute's Lawn, CSIR-IITR, M G Road, Lucknow Departure to CRK campus CSIR-IITR, Lucknow, after lunch		OL-85: Industrial Potential of PETase from Microbial Sources for Sustainable Plastic Recycling Dr Bikram Basak , Hanyang University, Seongdong-gu, Seoul, South Korea.
13:05-14:00			Lunch at Institute's Lawn, CSIR-IITR CRK Campus, Lucknow
15:00-16:00	Valedictory function at CRK (NAIMISH) CSIR-IITR CRK Campus, Lucknow		
16:00	High Tea at Institute's Lawn, CSIR-IITR CRK Campus, Lucknow		