

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

November 27-30, 2024



SCIENTIFIC PROGRAMME

ORGANIZED BY



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



27th November, 2024, Wednesday

Registration

& Inauguration

at
CSIR-IITR Lawn
Keynote Address

18:00 Hrs

By

Professor Kalpana Balakrishnan, PhD, FAMS

Dean (Research) and Director

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

Redefining paradigms for health impact assessment for air pollution in India

Chairpersons :

Dr D. Kanungo

Dr Chindi Vasudevappa

Registration
12:00 noon onwards

Inauguration
15:00-17:30 Hrs



19:00 Hrs



19:30 Hrs



28th November, 2024, Thursday



	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, USA	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 Dharendra Singh, Senior Principal Scientist, CSIR-IITR, Lucknow
Rapporteurs:	Dr Mohan CD Dr Sandeep Negi	Dr Pradeep Kumar Sharma Dr Kanchan Sonkar	Dr Raja Gopal Rayavarapu Dr Sumana Y Kofian
09:30-10:00	PL-1: Stem Stroma & Beyond: The Crossroads of Regenerative Medicine against Radiation Toxicity Dr Subhrajit Saha, University of Kansas Medical centre, 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, 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, Mangalore



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10:20-10:40	IL-2: Gender differences in counteracting toxic gas inhalation induced-lung toxicity. Dr Saurabh Aggarwal , Florida International University, Miami, FL, USA	IL-5: Mitochondria in Cancer: Insights to 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 Drosophila melanogaster. Dr Snigdha Mishra , School of Health Sciences and Technology, UPES, Dehradun
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 Drosophila melanogaster. 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		
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:	Dr Satyanarayana Achanta , Duke University School of Medicine, USA Dr Neera Tewari-Singh , Institute for Integrative Toxicology, Michigan State University, MI, USA	Professor Nuzhat Husain , RMLIMS, Lucknow Dr Poonam Kakkar , Former Chief Scientist, CSIR-IITR, Lucknow	Dr Vinay K Khanna , Former Chief Scientist, CSIR-IITR, Lucknow Professor S Raisuddin , Jamia Hamdard, New Delhi
Rapporteurs:	Dr Prili Bhardwaj Ms Nidhi Arjaria	Dr. Sheelendra Pratap Singh Dr Bhumika Ray	Dr Nidhi Gupta Mr Jai Shankar



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11:15-11:45	<p>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</p>	<p>PL-5: Identifying hidden GEMs in neurological diseases Professor Udai Bhan Pandey, University of Pittsburgh Medical Center, Pittsburgh, USA</p>	<p>PL-6: Environmental Chemicals and their Impact on Health Economics Professor S Raisuddin, Jamia Hamdard, New Delhi</p>
11:45-12:05	<p>IL-10: Cell-based therapy, Biomaterials in Ocular research: Safety and Ethical considerations Dr Vivek Singh, L V Prasad Eye Institute, Telangana, Hyderabad.</p>	<p>IL-15: Divergent effects of arsenic exposure in organs and species. Dr Ashok Datusalia, National Institute of Pharmaceutical Education and Research Lucknow</p>	<p>IL-20: Noncoding RNAs in Traumatic Brain Injury : Clues to Diagnosis & Therapy Dr D P Mishra, CSIR-Central Drug Research Institute Lucknow.</p>
12:05-12:25	<p>IL-11: Corneal Toxicity from ocular chemical threat agent exposures: Mechanisms and Treatments. Dr Neera Tewari Singh, Institute for Integrative Toxicology Michigan State University, MI, USA.</p>	<p>IL-16: PTR-10, the C. elegans Homolog of Human PTCHD1, Plays a Crucial Role in Neuroprotection Dr Aamir Nazir, Central Drug Research Institute, Lucknow</p>	<p>IL-21: <i>HCMV miRNAs: Emerging Approaches in Risk Analysis and Translational Aspects of Health and Environment.</i> Prof Sunil Babu Gosipatala, Babasaheb Bhimrao Ambedkar University, Lucknow</p>
12:25-12:45	<p>IL-12: Proper lipid metabolism ensures reduced risk of severe ROP among preterm infants. Dr Inderjeet Kaur, L V Prasad Eye Institute, Hyderabad.</p>	<p>IL-17: Ambient MS approaches for Food Authenticity testing Dr Padmakar Wagh, Waters India Pvt Ltd, Bangalore.</p>	<p>IL-22: Targeting MicroRNAs by Natural Products: A Novel Therapeutic Approach for Osteoporosis Dr Divya Singh, CSIR-Central Drug Research Institute Lucknow.</p>
12:45-13:05	<p>IL-13: CS Tear Gas Agent-induced Skin Injuries: Potential Drug Targets, Biomarkers, and Medical Countermeasures. Dr Satyanarayana Achanta, Duke University School of Medicine, USA</p>	<p>IL-18: Neurotoxic Effects of Synthetic Pyrethroids through Mitochondrial Impairment and Autophagy Dysregulation. Dr Abhishek Mishra, Govt Shaheed Gendsingh College, Charama, Chhattisgarh</p>	<p>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.</p>



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13:05-13:25	IL-14: Micro plastics and Chronic Kidney Disease: Understanding the Risk and Mechanisms 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 Shrivastava , King George's Medical University, Lucknow.
13:25-14:00	Lunch at Institute's Lawn, CSIR-IITR Main Campus, M.G. Road, Lucknow		





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14:00-16:00 Convenor:	SESSION-7: Poster Presentations Dr Sheelendra Pratap Singh & Dr Smriti Priya		
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:	Professor M.M. Srinivas Bharath National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore Dr Nandini Shetty, Principal Scientist, CSIR-CFTRI, Mysuru	Dr Vikas Srivastava, Principal Scientist, CSIR-IITR, Lucknow 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 Priti Bhardwaj Ms. Kalpana Padalia	Dr Mohan CD Ms. Deepali Tripathi	Dr Nidhi Gupta Dr Sumana Y Kotian
15:00-15:30	PL-7: Issues Relevant to Human Health Risk Assessment and Challenges Dr S K Rath, CSIR-Central Drug Research Institute, Lucknow	PL-8: Micro plastics: Exploring Male Reproductive Toxicity and Metabolic Alterations in the Context of Health Risk Analysis. Dr Sapana 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.
15:30-15:50	IL-25: LINC00324 Promotes Metastasis in Esophageal Cancer Dr Aklank Jain, Central University of Punjab, Bathinda, Punjab.	IL-28: Characterization and toxicity assessment of environmental micro plastics Dr H P Gurushankara, Central University of Kerala, Kerala.	IL-31: Emerging contaminants (PFAS) in Environment – Outlook Dr Joanne Ho, Waters India Pvt Ltd, Bangalore.



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15:50-16:10	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, Bangalore.
16:10-16:30	IL-27: Unraveling the differential role of GABARAPs in Gliial 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
16:30-18:30	SESSION 11: Oral presentations by young scientists (OP1-OP10)	SESSION 12: Industry academia meet	
Chairs:	Dr Sanghamitra Bandyopadhyay & Dr Ravi Ram Kristipati	Dr Parthasarathi Ram Farelabs, Ultra International, Startups	
19:00 onwards	Gala Dinner		



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	Hall 1 S H Zaidi Auditorium	Hall 2 P K Ray Auditorium	Hall 3 Exhibition Hall (TDIC)
THEME	DIPTox (Digital Interfaces and Predictive Toxicology)	DEMAT (Development and Management of Toxicology Facility)	DEMAT (Development and Management of Toxicology Facility)
	SESSION-13: Omics/ High-throughput Approaches Towards Toxicological Responses	SESSION-14: Waste Treatment and Management	SESSION- 15: Environmental Monitoring
Chairpersons:	Dr Ohmiya Yoshihi, Zuiko National Institute of Advanced Industrial Science and Technology, Tsukuba Dr Ivana Radojčić Redovniković, University of Zagreb, Croatia	Dr Si Jae Park, Ewha Womans University, Seoul, South Korea Dr Yogeshwer Shukla, Former 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 Anurag Tripathi Dr Beena Vamadevan	Dr Nandita Das Gupta Dr Pankaj Jagdale	Dr Sreekanth Bojjagani Dr 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, 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, Lucknow	IL-38: 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, Netherlands	IL-42: Acetate: A Sustainable Feedstock for Biomanufacturing - Potential, Challenges, and Advances Dr Sunghoon Park, Ulsan National Institute of Science & Technology, Ulsan, Korea.



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10:20-10:40	<p>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, Ahmedabad, Gujarat.</p>	<p>IL-39: Fungal-based biorefinery: from residuals to value-added products Dr Mohammad Jafar Taherzadeh, University of Borås, Sweden.</p>	<p>IL-43: Prescribing Seawater Quality Standards for heavy metals in Indian Waters using Ecotoxicological Approach Dr S Bijoy Nandan, Cochin University of Science and Technology, Cochin</p>
10:40-11:00	<p>IL-36: Ecotoxicological risk assessment of Imidacloprid on Macrobrachium rosenbergii using an untargeted metabolomics approach Dr Niladri Chatterjee, ICAR-Central Institute of Fisheries Technology, Cochin.</p>	<p>IL-40: 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 Rocha Meneses, Wrocław University of Environmental and Life Sciences, Wrocław, Poland</p>	<p>IL-44: Health risk estimation at landfill site at Nagpur due to bio aerosol exposure Dr Amit Bafna, CSIR-NEERI, Nehru Marg, Nagpur.</p>
11:00-11:20	<p>IL-37: Evaluation of the toxic potential of Ethyl methanesulphonate (EMS) on Hydra vulgaris Dr Yasir Hasan Siddique, Aligarh Muslim University, Aligarh.</p>	<p>IL-41: 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.</p>	<p>IL-45: Dioxins and Furans: Perspectives for Environmental Monitoring and Remediation of These Emerging Persistent Contaminants Dr Avneesh Rawat, FARE Labs Pvt. Ltd., Gurugram</p>
11:20	Tea at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		
THEME	<p>PET (Public Health & Environmental Toxicology)</p>	<p>DEMAT (Development and Management of Toxicology Facility)</p>	<p>PET (Public Health & Environmental Toxicology)</p>
	<p>SESSION-16 Food Safety and Quality</p>	<p>SESSION-17 Bioremediation of Hazardous Wastes</p>	<p>SESSION-18 Hazards Identification, Characterization and Risk</p>



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Chairpersons:	Professor Alok Dhawan, Director CBMR, Lucknow Dr M K R Mudium, Director, Institute of Pesticide Formulation Technology (IPFT), Gurugram	Dr Rajeshwar Dayal Tyagi, INRS Eau, Terre et Environnement, 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 Ms. 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 Dr Kattesh V. Katti, University of Missouri; Columbia, USA	PL-14: Development of multicolor illuminating cells for OECD-directed toxicological testing Dr Ohmiya Yoshihiro, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan	PL-15: Toxicity of Dietary Flavonoids and Induction of Epigenetic Alterations in Triple Negative Breast Cancer Prof Rajesh N Gacche, Savitribai Phule Pune University, Pune.
12:00 to 13:30	Restricted round-table discussion on "Safety and toxicological evaluation of functional foods and nutraceuticals : The requirements and current regulatory status" Venue: S S Bhatnagar Conference room Chairperson: Dr Bhaskar Narayan, Director, CSIR-IITR Co-Chairperson: Dr. D. B. Anantha Narayana, Chief Scientific Officer, Ayurvedic Trust, Bangalore Convenor: Dr Preeti Bhargava Chalurvedi, CSIR-IITR		
11:45-12:05	IL-46: HMGR 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-51: Day without night: The consequences of the illuminated night environment on behavior and physiology in diurnal birds Professor Shalie Malik, University of Lucknow	IL-56: Estrogen receptors mediated osteogenic role of promising phytochemicals Dr Mohd Arshad, Aligarh Muslim University, Aligarh.



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12:05-12:25	IL-47: Translational Aspect of Apigenin in Prevention of Carcinogen-Induced liver cancer. Dr Hifzur Siddique , Aligarh Muslim University, Aligarh.	IL-52: Laccase: enzyme for various industrial applications Dr Marina Tišma , University of Osijek, Croatia.	IL-57: Novel Mechanistic Insights into NAFLD Development Dr Mohan Kamthan , School Of Chemical And Life Sciences, Jamia Hamdard, New Delhi.
12:25-12:45	IL-48: Translational Aspect of Apigenin in Prevention of Carcinogen-Induced liver cancer. Dr Hifzur Siddique , Aligarh Muslim University, Aligarh.	IL-53: Assessing the microbiota dynamics in response to diverse organic feed in field-scale anaerobic digesters through metatransomic and predictive metabolic function analyses Dr Byong-Hun Jeon , Hanyang University, Seoul, South Korea.	IL-58: Public health Improvement through Aromatics: Aroma to therapeutics Dr Narayan Prasad Yadav , CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow.
12:45-13:05	IL-49: Evaluation of PFAS Contamination in Water Sources of Himachal Pradesh: Human Health Risk Assessment. Dr Nitin Verma , Chitkara University, Himachal Pradesh.	IL-54: Treatment of landfill leachate using extracellular polymeric substances (EPS) and electrocoagulation (EC) Dr Drogui Allali Patrick , Centre Eau Terre-Environment Research, Québec, CANADA	IL-59: 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-50: Analytical Challenges in Food Safety and Quality Dr S. K. Raza , FARE Labs Pvt. Ltd., Gurugram	IL-55: Tolerance and biodegradation of high concentration of phenol by a bacterial consortium enriched from the Hurricane Ida sediments Dr Ramaraj Boopathy , Nicholls State University, Louisiana, USA.	IL-60: Renewable Stem Cells & Their Extracellular Products as Screening Platforms for Toxicological Studies Dr Dipak Kumar , Munger University, Bihar, India
13:25-14:30	Lunch at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		



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13:45-15:45 Convenors:	SESSION19: Poster Presentations Dr Preeti Chaturvedi & Dr Rachana Kumar		
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-20: Human Health Risk Assessment	SESSION-21: Food Toxicology and Food Safety	SESSION-22: Artificial Intelligence/Machine Learning in Toxicology
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, Universidade de 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 Puneel Khare	Dr Pradeep Sharma Mr. Jai Shankar	Dr Ashish Dwivedi Dr Sandeep Singh
15:00-15:30	PL-16: Mechanistic insights of delayed effects of heavy metal toxicity in lungs. Dr Ranu Surolia, University of Alabama at Birmingham, Alabama, USA	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.



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15:30-15:50	IL-61: 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-64: 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-67: AI-Powered Toxicity Prediction: Transforming Chemical Risk Assessment with Machine Learning Models Dr Prachi Srivastava , AMITY University, Lucknow, Uttar Pradesh
15:50-16:10	IL-62: DNA targeted drug development based on repurposing remodeling against cancer Dr Ugir Hossain S K , Chittaranjan National Cancer Institute, Mukherjee Road, Kolkata	IL-65: From Ingredients to Insights: Leveraging Large Language Models for Innovation in Food and Agriculture Dr Rishemjit Kaur , CSIR-Central Scientific Instruments Organisation, Chandigarh	IL-68: Computational methods/models for the development of Digital Interfaces and Predictive Toxicology (DIPTox) Dr Vaibhav Anil Dixit , NIPER Guwahati, Assam.
16:10-16:30	IL-63: Introduction to lifestyle diseases Dr Suchit Swaroop , University of Lucknow	IL-66: Stored grain insect management: Current scenario and future prospects Dr C.S. Vivek Babu , CSIR-Central Food Technology Research Institute, Mysuru	IL-69: 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.
16:30-18:30 Chair:	SESSION 23: Oral presentations by young scientists (Hall 1) OP11-OP20 Dr Sanghamitra Bandyopadhyay & Dr. Ravi Ram Kristipati		
19:00-19:30	AGBM meeting ASTRA at S.H. Zaidi Auditorium, 2nd Floor CSIR-IITR Main Campus, M G Road, Lucknow		
19:30 onward	Dinner		



30th November, 2024, Saturday



	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-24: Neutraceuticals for Health and Wellness	SESSION-25: Neutraceuticals for Health and Wellness	SESSION-26: Waste Treatment and Management
Chairpersons:	Dr Aditya B Pant , CSIR-IITR, Lucknow Dr S K Rath , Chief Scientist, CSIR-CDRI, Lucknow	Dr Aamir Ahmad , Translational Research Institute, Doha 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 Dr Kanchan Sonkar	Dr Anurag Tripathi Dr Nandita Dasgupta	Dr Abhay Bajaj Dr Pankaj Jagdale
09:30-10:00	PL-19: Development of human iPSC-derived 2D and 3D models for toxicity/safety assessment: CSIR-IITR's perspective Dr Aditya B Pant , CSIR-IITR, Lucknow	PL-20: Experimental evidence of the antistress and anticancer activities in Ashwagandha Dr Sunil Kaul , National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan.	PL-21: Gaseous and particulate emissions from the combustion of wood pellets Dr Brillard Alain , Université de Haute-Alsace, Mulhouse, France
10:00-10:20	IL-70: Exploring Phytochemicals as Novel MTH1 Inhibitors: A New Approach in Oxidative Stress and Toxicity Management Dr Md. Imtaiyaz Hassan , Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, Jamia Nagar, New Delhi	IL-74: Molecular link between stress and cancer: Molecular biology to intervention. Dr. Renu Wadhwa Kaul , National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan	IL-78: Micro plastics in drinking water: A case study of Thailand Dr Sandhya Babel , Thammasat University, Thailand



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10:20-10:40	IL-71: From Discovery to Delivery: Ensuring Efficacious Safe Pharmaceuticals for Public Health Dr Anirban Pal – CSIR-CIMAP, Lucknow.	IL-75: Why Ashwagandha for Oral cancers? Dr Ajaikumar B Kunnumakkara , Indian Institute of Technology Guwahati, Assam	IL-79: A Himalayan lifeline at Jeopardy: Nepal's struggle against climate change Dr Ajay Kumar Rajbhandari , Patan Academy of Health Sciences, Nepal
10:40-11:00	IL-72: Efficacy and Toxicity paradox of Beta-Asarone: A Bioactive Molecule of Acorus calamus Dr Debabrata Chanda , CSIR- CIMAP, Lucknow.	IL-76:	IL-80: Microalgae-integrated resource recovery from waste streams for bioremediation and sustainable production Dr Thilini Udayangani Ariyadasa , University of Moratuwa, Moratuwa, Sri Lanka
11:00-11:20	IL-73: Nutraceuticals for Healthy Aging: Promoting Longevity and Skin Health Dr Racheal John , FARE Labs Pvt. Ltd., Gurugram	IL-77: Harmful Algal Blooms: Causes, Ecological Impacts and Mitigation Strategies Dr Shivakumar Magada , College of Fisheries, Mangalore.	IL-81: Industrial Potential of PETase from Microbial Sources for Sustainable Plastic Recycling Dr Monica Sharma , Babasaheb Bhimrao Ambedkar University, Lucknow
11:20	Tea at Institute's Lawn, CSIR-IITR, M G Road, Lucknow		Tea at Institute's Lawn, CSIR-IITR, CRK Campus
THEME	PET (Public Health & Environmental Toxicology)	PET (Public Health & Environmental Toxicology)	DEMAT (Development And Management of Toxicology Facility)
	SESSION-27: Mechanistic Toxicology	SESSION-28: Environmental Health	SESSION-29: 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 Industrial Science & Technology (AIST), Tsukuba, 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 Bojjagani Dr Beena Vamadevan



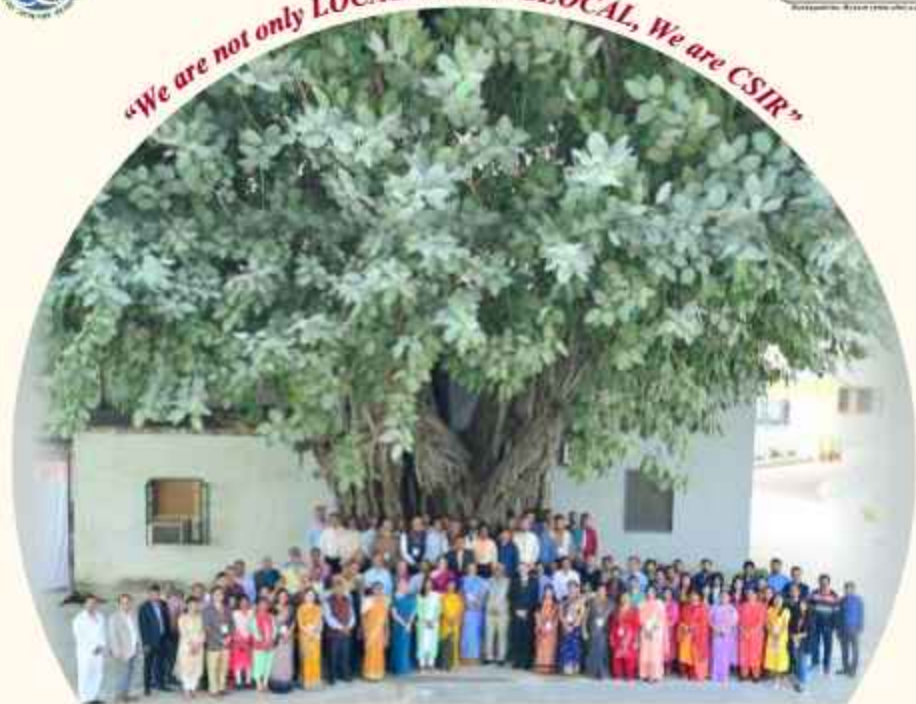
30th November, 2024, Saturday



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-82: Nanotechnology Meets RA Therapy: Targeted Delivery of Methotrexate and RELA siRNA using Folate-Liposomes Dr Ashutosh Kumar , School of Arts and Sciences Ahmedabad University, Ahmedabad.	IL-84: New insights in the mechanism of regulation of a catabolic dsz operon for the biodesulfurization of organosulfurs Professor Preeti Srivastava , Indian Institute of Technology Delhi.	IL-86: Challenges of Indoor Air Pollution Er. A.H Khan , CSIR-IITR, Lucknow
12:05-12:25	IL-83: Stem Cell Therapy for Ischemic Stroke: Are We There Yet? Dr Shadab Raza , Era University Lucknow	IL-85: Arsenic and Global Health: An integrated approach towards mitigation. Dr Pritha Bhattacharjee , University of Calcutta, Kolkata.	IL-87: Ecotoxicity, removal efficiency, and molecular response of freshwater microalgae to BisphenolAP exposure Dr Bikram Basak , Hanyang University, Seongdong-gu, Seoul, South Korea.
12:25-12:45			IL-88: Preventing systemic drug-induced ocular toxicity using non-therapeutic eye drops Dr Nirmal Jayabalan , Department of Pharmacy, Birla Institute of Technology and Science, Pilani, 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		
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		



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