











9th INTERNATIONAL CONFERENCE OF

INSCR-Indian Network for Soil Contamination Research

Microbes & One Health

Date: 17-18th January 2025

Venue: Auditorium, Campus-11, KIIT University

DAY-1	17 th January 2025
0900-1000h	REGISTRATION
1000-1030h	INAUGURATION Welcome Address: Dr Srinivas Patnaik, Dean, School of Biotechnology, KIIT About the Conference: Dr Vishakha Raina, Professor, School of Biotech, KIIT About the Ecosystem: Dr Mrutyunjay Suar, DG R&D and Innovation, KIIT About INSCR: Prof Rup Lal, President, INSCR Address by: Prof. Saranjit Singh, Vice Chancellor, KIIT Address by Guest: Dr Alok Dhawan, Director CBMR, Lucknow Address by Guest: Dr Debasisa Mohanty, Director, BRIC-NII, New Delhi Note of thanks
1030-1145h	 KEYNOTE TALKS <i>Keynote Talk (20 min):</i> Dr Alok Dhawan, Director CBMR, Lucknow "Biomarker discovery and biodevices for Better Patient Care " <i>Keynote Talk (20 min):</i> Dr Debasisa Mohanty, Director, BRIC-NII, New Delhi "AI/ML guided microbiome mining for deciphering novel bioactive molecules and antimicrobial peptides" <i>Keynote Talk (20 min):</i> Dr Manmohan Parida, Director, DRDE Gwalior "Microbes and One Health: Relevance, Challenges, and Future Prospects" Q&A
1145-1215h	Tea Break
1215-1315h	Technical Session-IMicrobes and InfectionChair: Dr Debasisa Mohanty, Director, BRIC-NII, New Delhi <i>Keynote Talk (20 min):</i> Prof. Chandravanu Dash, Meharry Medical College, USA"Mechanism of HIV-1 escape from cytotoxic T-lymphocyte antiviral response"Invited Talk (12 min): Dr Sunil Raghav, BRIC-ILS Bhubaneswar "NCoR1 fine-tuned metabolism controls Mycobacterium tuberculosis pathogenesis"Invited Talk (12 min): Dr Ravi Tandon, JNU, New Delhi "Gut dysbiosis with increased abundance of <i>Prevotella</i> is associated with microbial translocation and inflammation in HIV-infected children"

	Power Talk (7 min): Dr Utkarsh Sood, Kirori Mal College, Delhi University "Enhancing Rifamycin B Analogs Yield in <i>Amycolatopsis mediterranei</i> through Genetic Engineering of the Shikimate Pathway "
	Q&A session
1315-1415h	Lunch & networking
1415-1445h	Session:Startup ShowcasingModerator: Dr Bhaskar Das, KIIT TBIPlatform Talk (5 min): Ms Nishita Baliarsingh, Co-Founder Nexus Power PvtLtdPlatform Talk (5 min): Dr Neera Singh, Founder ProCyto lab Pvt LtdPlatform Talk: (5 min): Dr Bijayananda Panigrahi, Founder Biopioneer IndiaPvt Ltd
1445-1600h	Technical Session-II One Health
	Chair: Dr Alok Dhawan, Director, CBMR, Lucknow
	<i>Keynote Talk (20 min)</i> : Dr Subeer S Majumdar, Gujarat Biotechnology University "Biotechnology-based solutions for addressing One Health"
	<i>Keynote Talk (20 min):</i> Prof. Leon J Schurgers, Univ of Maastricht, Netherland "Canonical and non-canonical functions of vitamin K in health and disease"
	Invited Talk (12 min): Dr Niladri B Pati, Manipal University "Human gut microbiome: An approach toward NextGen therapeutics"
	Invited Talk (12 min): Dr Jugal Kishore Das, Shiv Nadar University, Delhi-NCR "Harnessing Engineered Microbes and Immunotherapy: Pioneering Solutions for Cancer, Autoimmune Diseases, and Diabetes"
	Q&A session
1600-1625h	SPECIAL TALK
	Prof. Rup Lal, President INSCR <i>"Amycolatopsis mediterranei</i> : A Key Player in Rifamycin B Analog Production to Combat Rifampicin-Resistant Tuberculosis"
1625-1655h	Tea Break
1700-1800h	Technical Session-III Microbial Diversity Chair: Prof. Rup Lal, President, INSCR
	<i>Keynote Talk (20 min)</i> : Prof. Niyaz Ahmed, University of Hyderabad "From soil to society – genome dynamics of pathogenic bacteria in the environment"
	Invited Talk (12 min): Dr Rakesh Sharma, CSIR-IGIB, New Delhi "Microbial Diversity of Gut Microbiome from a Pan India Cohort"
	Invited Talk (12 min): Dr Surajit Das, NIT Rourkela "Deciphering the interaction of biofilm-EPS of marine bacteria with recalcitrant environmental organic pollutants for biodegradation "

	Power Talk (7 min): Dr Helianthous, Ramjas College, Delhi University "A Comparative Genomics of 174 <i>Mycobacterium Tuberculosis</i> strains Focusing on the Potential Drug Targets for Combating Tuberculosis "
1900h onwards	Q&A session Cultural Program
DAY-2	18 th January 2025
0930-1015h	POSTER SESSION
1015-1100h	KEYNOTE TALKS <i>Keynote Talk (20 min)</i> : Dr Manoj Prasad, UDSC, New Delhi "ATG8 and Sw5: Defenders of Plant Health Against Viral Infections "
	<i>Keynote Talk (20 min)</i> : Prof. Apparao Podile, University of Hyderabad "Understanding of <i>phytomicrobiome</i> is crucial for "One Health" Q&A session
1100-1200h	IGNITION SESSIONDRDO- ChemBio Defence Technology OutreachIGNITION SESSIONDRDO- ChemBio Defence Technology OutreachChair: Dr Manmohan Parida, Director, DRDE GwaliorResearch vertical in Chemical Defence: Dr B N Acharya, Sc-F, DRDE GwaliorResearch Verticals in Biodefence: Dr S Ponmarriappan, Sc-F, DRDE GwaliorQ&A session
1200-1230h	Tea Break
1230-1330h	Technical Session-IVEnvironmental Biotechnology Chair: Prof. Tapan K Adhya, School of Biotechnology, KIIT UniversityKeynote Talk (20 min): Dr Celin Acharya, BARC Mumbai "Insights into the heavy metal resistome of a Bacteroidetes bacterium inhabiting metal enriched soil of uranium ore deposit"Invited Talk (12 min): Dr Vishakha Raina, KIIT University, Bhubaneswar "Metagenomic study of lake microbial mats reveals protease-inhibiting antiviral peptides from a core microbiome member"Invited Talk (12 min): Dr Sourav Das, ILS, Bhubaneswar "Harnessing Amoeba-Bacteria Interactions in Recycled Wastewater Irrigation to Promote Sustainable Soil Health"Power Talk (7 min): Dr Pushp Lata, Delhi University "Deciphering the Microbial Composition of Manikaran: A SeqCode- Oriented Methodology for the Identification of Metabolic Functions within the Hot Spring Ecosystem"
1330-1430h	Lunch & Networking
1430-1515h	Session:IDEATION SESSIONModerator:Dr Vishakha RainaSelected students will pitch here for innovative ideas each 2 min (15 number)
1515-1615h	INTER-DISCIPLINARY SESSION Keynote Talk (20 min): Prof. Yogendra Kumar Mishra, Univ of Southern Denmark "Tetrapods based Smart Materials for Advanced Technologies"

	Power Talk (7 min): Dr Baljeet Kaur, Hansraj College, Delhi University "Artificial Intelligence/Machine Learning (AI/ML) Strategies: Role in Peptide-based Therapeutics "
	Power Talk (7 min): Dr Jasvinder Kaur, Gargi College, Delhi University "Integrative characterization of pesticide-degradation <i>Sphingomonads</i> ; from phylogenetic analysis to enzyme purification"
	Power Talk (7 min): Dr Pooja Arora, Hansraj College, Delhi University "Machine learning strategies for effective prediction of peptides with antiprotozoal activities"
	Mr Abhilash Kumar (7 min), Ramjas College, Delhi University A Genomic Taxonomic Pipeline for Microbial Taxonomy: A Case Study in the Genus Williamsia.
1615-1700h	VALEDICTORY SESSION followed by HIGH TEA