



th8 International Conference

Indian Network for Soil Contamination Research (INSCR)

4th International Symposium on Ciliate Biology

on

Exploring the Microbial World

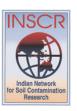
From Human Health to Environmental Sustainability April 2-5, 2024 | Conference Centre, University of Delhi, INDIA

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Day 1: April 03, 2024 (Wednesday) Venue: Conference Center, Delhi University

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IST (hrs)	Event
0800-0845	Registration
0845-0945	Inauguration Ceremony (Main Hall): Guest of Honour: Prof. T. Ramamurthy
0845-0900	Lamp Lighting and University Kulgeet
0900-0905	Welcome Address by the INSCR President: Prof. Rup Lal
0905-0915	Address by DU Vice-Chancellor: Prof. Yogesh Singh
0915-0925	Address by Patron: Prof. R.C. Sobti
0925-0935	Address by Guest of Honour: Prof. T. Ramamurthy
0935-0940	Address by Organizing Secretary and Introduction to Participating Institutes: Prof. Ravi Toteja
0940-0945	Abstract Book Release
0945-1015	Inaugural Lecture 1 (Main Hall)
	Sudesh Kumar Yadav (Director, CSIR-IHBT, Palampur)
	"Microbes and enzymes for sustainable production of high-value products"
1015-1045	Inaugural Lecture 2 (Online)
	Lan Doulef war dan Maan (Duafassan LINIII. Switzenland)
	Jan Roelof van der Meer (Professor, UNIL, Switzerland)
	"Understanding interactions in soil microbial communities for the prospect of bioremediation"
1045-1100	Tea Break
	Session 1: Special Session Sponsored by INSA-IUMS (Main Hall)
	Microbes and Infectious Disease
	Chairpersons: T. Ramamurthy & Sudesh Kumar Yadav
1100-1125	Keynote Lecture
	T. Ramamurthy (Professor, National Institute of Cholera and Enteric Diseases NICED, Kolkata)
	"Attributes of Infectious Diseases: A cholera paradigm"
1125-1145	Yogendra Singh (Director, Delhi School of Public Health, Institute of Eminence, University of Delhi)
1120-1170	"Protein Modifications: Orchestrating The Proteome To Run The Life"
1145-1205	Rup Lal (INSA Senior Scientist, Acharya Narendra Dev College, DU)
1110 1200	"Amycolatopsis mediterranei: A Powerhouse for the generation of rifamycin B analogues Effective Against MDR Strains of Mycobacterium tuberculosis"

1205-1225	Yogesh Shouche (Honorary Scientist, NCCS and Professor at Azim Premji University.)	
1225-1245	Shashank Tripathi (Centre for Infectious Disease Research, Indian Institute of Science)	
	"Translating Virus-Host interaction data into antiviral modalities"	
1245-1305	Ankur Mutreja (Cambridge University, UK)	
	"Vibrio cholerae O139 genomes provide a clue to why it may have failed to usher in the eighth cholera pandemic"	
1305-1335	Plenary Lecture 1 (Main Hall)	
	Anil Koul (Vice President, Global Public Health Discovery & Partnerships, Johnson & Johnson)	
1335-1420	Lunch Break	
1420-1445	IUMS NOC Meeting	
1445-1515	Plenary Lecture 2 (Main Hall)	
	Pinaki Sar (Professor, IIT Kharagpur, West Bengal)	
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1515-1545	Plenary Lecture 3 (Main Hall) Chris Bowler (CNRS Director of Research, IBENS, Paris)	
	"Exploring the ocean microbe multiverse with Tara Oceans"	
	Session 2: Special Session under the umbrella of IMiLI (International Microbiology Literacy Initiative)	
	Microbial Literacy in Society	
1545-1615	Chairpersons: Kenneth Timmis and Rup Lal Keynote Lecture	
1545-1015	Kenneth Timmis (University of Braunschweig, Germany)	
	"The microbiologist's special duty of care for the wellbeing of humanity and the planet"	
1615-1645	Keynote Lecture	
	Rup Lal (INSA Senior Scientist, Acharya Narendra Dev College, University of Delhi)	
	"Microbial Literacy Initiative for Viksit Bharat through IMiLI: Healthy Society, Environmental Protection and Global Peace"	
1645-1715	Terence McGenity (Professor, Univerity of Essex, UK)	
1715-1730	Shailly Anand (Assistant Professor, Deen Dayal Upadhyaya College, University of Delhi)	
	"Tiny But Mighty: Microbes & Sustainable Development"."	
1730-1745	Charu Dogra Rawat (Associate Professor, Ramjas College, University of Delhi)	

1745-1800	Hira Paul Gangnegi (retd. Professor, Department of Buddhist Studies, DU) "Microbial Literacy: A viewpoint of Microbial Literacy by a society member"
1800-1815	Tea Break
1815-1900	Cultural Program followed by dinner

Day 2: 4 th April, 2024 (Thursday)					
IST	Event				
0900-0930	Plenary Lecture 4 (Main Hall) Kalai Mathee (Florida International University, USA) "Deciphering Microbial Dynamics in Preterm Infants: An Integrative Omics Approach to Antibiotic Resistance and Replication"				
	Session 3 (Main Hall) Microbes in Agriculture and Food Production Chairperson: Dharam Singh & Ravi Kumar Asthana Co-Chair: Janmejay Pandey	Session 4 (Committee Room 1) Microbes and Industrial applications Chairpersons: Prashant Phale & Kashyap Kumar Dubey Co-Chair:	Session 5 (Committee Room 2) Microbial Ecology and Environmental Impact Chairperson: S.K. Barik & Nabeel Ahmed Co-chair: Om Prakash		
0930-0955	Keynote Lecture Jyoti Prakash Tamang (Professor, Sikkim University, Sikkim) "Food as Medicine"	Keynote Lecture Prashant Phale (Professor, IIT Bombay, Mumbai) "Pseudomonas bharatica CSV86 T: an ideal host for metabolic engineering and bioremediation"	Keynote Lecture S.K. Barik (Director and Professor, CSIR-NBRI, Lucknow) "Two success stories of environmental microbial technology: Improving productivity of shifting cultivation and treating AMD in small-scale coalmines"		
0955-1015	Ravi Kumar Asthana (Professor, Banaras Hindu University, BHU) "Future Prospects of Microalgae in Agriculture and Food Security"	Kashyap Kumar Dubey (Professor, JNU)	Rajeev Kaushik (Principal Scientist, ICAR-IARI, New Delhi) "Microbiology in relation to Climate change"		
1015-1035	Sunil Pabbi (Principal Scientist, ICAR-IARI, New Delhi) "Cyanobacteria: A sustainable resource for food and organic agriculture"	Suresh Kumar Dubey (Professor, Department of Botany, BHU, Varanasi) "Herbicidal influence on soil biochemical parameters and microbial community in tropical rice agroecosystem"	Nabeel Ahmed (Professor and Dean, Dev Bhoomi Uttarakhand University) "Nanotechnology: The Tiny Revolution with Big Impacts in Science"		

1035-1055	Dharam Singh (CSIR-IHBT, Palampur) "Lignocellulolytic Extremozymes from Indian Himalayan Niches for Industrial Applications"	Arun Kumar (Scientist, CSIR-IHBT, Palampur) "Decoding the virulence strategies of Rhizoctonia solani AG1- IA to engineer rice for tolerance to sheath blight disease"	Naveen Gupta (Head, Department of Microbiology, Panjab University, Chandigarh) "अभाव से समाधान तक: Microbial magic for sustainable industry and environment"
1055-1115		Tea Break	
1115-1135	Minakshi Grover (ICAR-IARI)	Ankit Saneja (Scientist, CSIR-IHBT, Palampur) "Microbial Polysaccharide-Based Oral Thin Films for Nutraceutical Delivery: A Case Study of Pullulan"	Veena Pande (Professor`, Kumaun University) "Ectomycorrhizae: A Boon for Himalayan Environmental
1135-1150	Janmejay Pandey (Assistant Professor, CUH, Rajasthan) "A Molecular View of Biofilms formation by Plant Growth Promoting Bacteria Isolated from Arid regions of Rajasthan and their potential role in Tripartite "Plant-Microbe Interactions"	Sanjukta Subudhi (Area Convener, Microbial Biofuels and Biochemicals, The Energy and Resources Institute, New Delhi) "Marine Algae Biorefinery"	Management using Biotechnological Approaches" Rajeev Singh (Associate Professor, Jamia Islamia) "Assessment of microbial indoor air quality in microenvironment for health risks"
1150-1205	Amit Kumar Rai (Scientist D, National Agri-Food Biotechnology Institute (NABI), Mohali) "Foodomics a frontier to translate traditional fermented foods into functional foods of multifarious health benefits"	Urmi Bajpai (Professor, ANDC, DU) "Coevolutionary Dynamics of Microbes, AMR and Climate Change"	Nirjara Singhvi (Assistant Professor, Dev Bhoomi Uttrakhand University) "Unveiling Gene Co-optive evolution of LysR type transcription regulators across strains of Mycobacterial."
1205-1220	Manoj Kumar (Senior Scientist, CSIR-Indian Institute of Toxicology Research) "Understanding the fungal-mediated arsenic biotransformation/ detoxification and its utilisation for reducing arsenic in crops"	Rakshak Kumar (Scientist, CSIR-IHBT, Palampur) "Vitamin D2 enrichment of captive cultivated Shiitake mushroom for the production of value-added products"	Sanjay Kumar Gupta (Assistant Professor, Swami Shraddhanand College, DU) "Soil Metaproteome: A comparative analysis of wheat rhizosphere metaproteome grown in saline and non-saline soils"
1220-1235	Om Prakash (Symbiosis Center for Climate Change and Sustainability, Symbiosis International University, Pune) "Anaerobic growth and drug susceptibility of versatile fungal pathogen Scedosporium apiospermum."	Ashwini P (Associate Professor and Coordinator Department of Microbiology, JSS Academy of Higher Education & Research, Mysuru) "Emerging Trends and Opportunities in Microbial Entrepreneurship"	Junaid Jibran Jawed (Assistant Professor, Presidency University, Kolkata) "Exploring the critical factors in host immune subversion during Leishmanial pathogenesis"

1235-1305	Plenary Lecture 5 (Main Hall) Anil Tripathi (Director, Institute of Science, Banaras Hindu University) "Carbon source utilization ability is crucial for the rhizocompetence of a plant growth promoting rhizobacterium, Azospirillum brasilense"				
1305-1325	INSCR GB Meeting				
1325-1400	Poster session + Lunch Break ■				
1400-1430					
	Session 6 (Main Hall) Microbial Genomics, Metagenomics and Biotechnology Chairpersons: Yogendra Singh & Pratyoosh Shukla Co-Chairs: Mansi Verma & Helianthous Verma	Session 7 (Committee Room 1) Bioinformatics in Microbial Research Chairpersons: Jyoti Prakash Tamang & S.K. Dubey Co-Chairs: Pushp Lata and Jasvinder	Research at UG/PG Colleges (Committee Room 2) Chairpersons: Ravi Toteja & Hardeep Kaur Co-Chairs: Pooja Bhagat & Seema Makhija		
1430-1455	Keynote Lecture V. C. Kalia (Professor, Konkuk University, South Korea) "Novel Antibacterial Strategies: Cheating Vs Killing Bacterial Pathogens"	Keynote Lecture Gunjan Pandey (Senior Research Scientist, CSIRO, Australia) "Novel insights into the oxidative catabolism of (+)- pinoresinol by Pseudomonas sp. strain SG-MS2: Pathways, enzymes, and biochemical implications"	Keynote Lecture Hardeep Kaur (Off. Principal & Professor, Ramjas College, DU) "Research in Colleges: Opportunities and Challenges"		
1455-1515	Amulya Panda (Associate Director, Panacea Biotec., New Delhi) "Bugs as Drugs: The Future Medicine"	Baljeet Kaur (Associate Professor, Hansraj College, DU) "Artificial Intelligence: Role in Biomolecule Identification"	1455-1505	Sunil Srivastava (Professor, Swami Shradhanand College) "Tackling Global Health Challenges like Pandemic Preparedness, Sustainability and Health Inequity by the use of Virus Like Particles and Viral Nanotechnology Platforms"	
1515-1535	Asha Chaubey (Senior Principal Scientist, CSIR- IIIM, Jammu)	Jasvinder Kaur (Assistant Professor, Gargi College, DU)		<u>I</u>	
	"Cold deserts of NW Himalayas as untapped resource of	"Phylogenomics-hased reclassifications in the genus			

	bioactive metabolites"	Psychrobacter	
1535-1555	Pratyoosh Shukla (Professor, Banaras Hindu University, Varanasi)	Pushp Lata (Assistant Professor, Department of Zoology, DU)	
	"Microbial bioremediation using bio-computational approaches- perspectives and challenges"	"Unraveling the Microbial Fabric of Manikaran: A SeqCode-Based Approach to Identify Metabolic Activities in the Hot Spring Ecosystem"	
1555-1615	Anil Kumar (Staff Scientist, National Institute of Immunology)	Parminder Kaur (Associate Professor, SGTB Khalsa College, DU)	
	"Towards understanding the anti-cancer role of gut metabolite indoxyl sulfate on colon cancer cells"	"Exploring Microalgal Potential"	
1615-1635	Natesan Manickam (Chief Scientist and Professor, CSIR-Indian Institute of Toxicology Research)	Pooja Arora (Assistant Professor, Hansraj College, University of Delhi)	
	"Biodegradation of plastics and plasticizers by diverse bacteria: Genomic insights into the metabolic pathways and biotechnological perspectives"	"Improved Prediction of IL-13-inducing Peptides through Effective Feature Selection Method and Machine Learning Classifiers"	
1635-1645	Tea Break		I
1645-1705	Phoebe Oldach Global Research Team Lead, Basecamp Research)	Helianthous Verma (Assistant Professor, Ramjas College, DU)	
	"Global Metagenomic Biodiscovery to Fuel Biotechnology"	"Study of Genomic Variations of Staphylococcus aureus: A Host Specific Analysis"	
1705-1725	Kosala Sirisena (University of Colombo, Sri Lanka)	Sinosh Skariyachan (Assistant Professor, St. Pius X College, Kerala)	
	"Ammonia Oxidizing Microorganisms in New Zealand Soils"	"In silico bio-prospecting and chemoinformatics screening of potential lead molecules against multi-drug resistant WHO priority pathogens"	
1725-1745	Punyasloke Bhadury (Professor, IISER, Kolkata)		
	"Exploring microbial biocomplexity in coastal ocean: the importance of time series"		
1930-2000	Plenary Lecture 7 (Only Online) William B Whitman (University of Georgia, Athens)	l	1

	Day 3: April 05, 2022 (Friday)				
IST (hrs)	Event		International Ciliate Biolo (Committee R		
			0815-0855	Keynote Lecture Gaytha Langlois (Professor, Bryant University, Rhode Island, USA) "Ciliates in extreme environments"	
0900-0930	Plenary Lecture 8 (Main Hall) Brajesh Singh (Professor, Western Sydney University, Australia)		0900-0940	Komal Kamra (Retd. Professor, SGTB Khalsa College, DU)	
	Session 8- Special Session Sponsored by INSA-IUMS (Main Hall) AMR and Food-Borne Pathogens Chairpersons: A.A Mohamed Hatha and Dev Raj Joshi Co-Chair: Parminder Kaur	Flash Presentation Session (Committee Room 1) Student Oral Talks Chairpersons: Rajeev Singh & Ankita Dua Co-Chairs: Princy Hira & Nirjara Singhvi			
0930-0955	Keynote Lecture Iddya Karunasagar (Nitte (Deemed to be University), University Enclave, Medical Sciences Complex, Mangaluru) "Risk assessment for foodborne antimicrobial resistance"	, 8	0945-1030	Rosaura Mayén Estrada (Universidad Nacional Autónoma de México, Mexico) "Diversity of Mexican Symbiotic Ciliates: An Overview of its Species	
0955-1015	A.A Mohamed Hatha (Professor, Cochin University of Science and Technology) "Emerging infectious diseases- role of ecology and technology"			Richness"	

1015-1035	Dev Raj Joshi (Tribhuvan University, Nepal)		
	"Circulation of antimicrobial resistance in wastewater environments"		
1035-1055	Bhabatosh Das (Professor, Translational Health Science and Technology Institute) "AMR of critical and high-priority bacterial pathogens"	1045-1125	Alexey Potekhin (Department of Microbiology, Faculty of Biology, St Petersburg) "Diversity and Dynamics of icrobiomes associated with Freshwater Ciliates"
1055-1115	Mansi Verma (Assistant Professor, Hansraj College, DU) "Role of Viral Omics in searching drug and vaccine targets"		
1115-1135	Durgesh Narain Singh (Scientific Officer, BioNEST, BHU) "Analysis of high-risk pollutants in the water of the River Ganga employing meta-omic approaches"	_	
1135-1200	Tea Break	1130-1210	Elena Sabaneyeva (Professor, Saint Petersburg State University, Russia) "Symbiotic associations in ciliates: problems and perspectives"
1200-1230	Plenary Lecture 9 (Main Hall) Hans H. Richnow (Ex-Professor, Helmholtz-Centre for Environmental Research, Germany) "Multi-Element Isotope Enantiomer Fractionation and molecular biological concepts to track transformation of persistent organic contaminants in soils and plants"		Santosh ()
1230-1300	Plenary Lecture 10 (Main Hall) Andreas Bechthold (University of Freiburg, Germany) "Production of new natural products by bridging regulatory functions"		
1300-1330	Plenary Lecture 11 (Main Hall)	1315-1355	Alan Warren (Natural History Museum Cromwell Road, London)

	Jana Jass (Örebro University, Sweden) "Microbes at the interface of human and environmental health"			"Protists are for everyone: A personal overview of knowledge dissemination and promoting public awareness"
1330-1430	Poster Session + Lunch Break		1400-1440	Valentina Serra (Project Assistant, Pisa University) "Next Generation Taxonomy: Ciliophora and their bacterial symbionts as a proof of concept" (Acronym: NGTax). The project, the rationale behind, and practical applications."
1430-1500 1500-1525	Plenary Lecture 12 (Main Hall) Max Häggblom (Rutgers University, USA) "Emerging Pollutants in Urban Aquatic Environments: Micro Session 9 (Main Hall) Entrepreneurship and Innovation in Sciences Chairpersons: Jitendra Kumar & Mrutyunjay Suar Co-Chair: Utkarsh Sood Keynote Lecture Jitendra Kumar (Managing Director, BIRAC)	Session 10 (Committee Room 1) Women in Science Chairpersons: Suraksha S. Diwan & Atya Kapley Co-Chair: Charu Dogra Rawat & Vartika Mathur Keynote Lecture Daman Saluja (Professor, Dr. B R Ambedkar Center for Biomedical Research, DU) "Novel strategies of drug development for enhanced antimicrobial efficacy in Neisseria gonorrhoeae"	1445-1525	Jasmine
1525-1550	Keynote Lecture Mrutyunjay Suar (Director General R&D and Innovation, KIIT University)	Keynote Lecture Radha Prasanna (Professor, ICAR-IARI, New Delhi) "Microbes as revitalizing options in protected cultivation"	1530-1610	Bettina Sonntag (University of Innsbruck Research, Austria) "Ciliates involved in science communication"
1550-1610	Utkarsh Sood (Assistant Professor, Kirori Mal College, DU) "Biomanufacturing and commercialization of thermostable DNA polymerase and protease from Thermus parvatiensis"	Atya Kapley (Senior Principal Scientist, CSIR-NEERI, Nagpur) "Wastewater Epidemiology and its relevance in AMR"		
1610-1630	Dharam Singh (CSIR-IHBT, Palampur) "Biomanufacturing of Industrially important L-Asparaginase from the Himalayan extremophilic bacteria"	Tista Prasai Joshi (Scientist, Nepal Academy of Science and Technology, Nepal)	1615-1700	Cristina Miceli (School of Biosciences and Veterinary Medicine University of Camerino,

		"Potential pathogenic bacteria in drinking water of Nepal"	Italy)
1630-1650	Aditya Thakur (Dentifrice) "Dentiview: Digital oral healthcare"	Namrata Misra (Assistant Professor, KIIT-TBI, Bhubaneswar)	"Trascriptomic response of the Antarctic ciliate Euplotes focardii to plastic derivatives such as Bisphenol A"
1650-1710	Panel Discussion	Vartika Mathur (Professor, Sri Venkateswara College, DU) "Decoding the Dynamics of Insect-Plant Interactions: Are microbes on the driver's seat?"	
1710-1750		Valedictory Ceremony (Main Hall)	
		Chief Guest: Jitendra Kumar	
		Guest of Honor: Mrutyunjay Suar	
1710-1720	Chief Guest Address	• , •	
1720-1730	Competition Winners Announcement		
1730-1740	Concluding Remarks		
1740-1750	Vote of Thanks		