

7th International Conference of Indian Network for Soil Contamination Research (INSCR)



“Modulating the Environment with Microbes”

Day 1: 8 th November, 2022 (Tuesday) Inauguration [ROOM A] Guest of Honor: Prof. DS Rawat	
IST (hrs)	Event
1540-1545 1545-1550 1550-1555 1555-1600	Welcome Address by the President: Rup Lal Address by Guest of Honor: Prof. DS Rawat Introduction to Participating Institutions Abstract Book Release
1600-1640	Inaugural Lecture 1 Jan Roelof van der Meer (Professor, UNIL, Switzerland) <i>“Culturing and managing complex soil microbiomes”</i>
1645-1725	Inaugural Lecture 2 Hauke Smidt (Professor, Wageningen University, Netherlands) <i>“Integrated biodiscovery-, bioreactor- and FAIR data facilities to unlock microbial diversity for society”</i>
1730-1800	Cultural Event
1800-1805	Concluding Remarks of Day 1

Day 2: 9^h November, 2022 (Wednesday)


[ROOM A]

IST (hrs)	Event
0900-0940	Inaugural Lecture 3 [ROOM A] Jizhong Zhou (Professor, University of Oklahoma, United States) <i>"Microbial Functional Traits and Soil Carbon Fluxes"</i>
0940-1020	Plenary Lecture [ROOM A] Anil K Tripathi (Director and Professor, Institute of Science, Banaras Hindu University, Varanasi) <i>"Role of alternative sigma factors in responding to abiotic environment in a plant growth promoting"</i>
1020-1030	Tea Break 
1030-1400	Session 1--[ROOM A] Microbial Literacy: Science for Society
1030-1100	Keynote Lecture Robert Metcalf (Emeritus Professor, California State University, USA) <i>"The Human Right to Safe Drinking Water Starts with Microbiology Testing at the Community Level"</i>
1105-1135	Keynote Lecture Rup Lal (INSA Senior Scientist, Acharya Narendra Dev College, University of Delhi) <i>"Microbial Literacy Mission under International Microbial Literacy Initiative in South Asia Center: Our Vision, Mission and Efforts"</i>
1140-1210	Keynote Lecture Kenneth Timmis (University of Braunschweig, Germany) <i>"Microbiology Literacy, Societal Wellbeing and Sustainability"</i>
1215-1245	Keynote Lecture Terry McGenity (Professor, University of Essex, United Kingdom) <i>"Visualizing the invisible: class excursions to ignite children's enthusiasm for microbes"</i>
1250-1310	Shailly Anand (Assistant Professor, Deen Dayal Upadhyaya College, University of Delhi) <i>"Small things, big challenges"</i>
1315-1335	Charu Dogra Rawat (Associate Professor, Ramjas College, University of Delhi) <i>"Holistic microbiology literacy for building a better society"</i>
1340-1400	Paola Scavone (Principal Investigator, Instituto de Investigaciones Biologicas Clemente Estable, Uruguay) <i>"The creation of comics for teaching microbiology to children"</i>
1400-1415	Sukanya Lal (Professor, Ramjas College, University of Delhi) <i>Concluding Remarks</i>


1415-1445	Lunch Break 	
	Session 2 (1445-1920) [ROOM A] Microbial Interactions in Nature	Session 3 (1445-1920) [ROOM B] Industrial and Synthetic Microbiology
1445-1515	Keynote Lecture S.K. Barik (Director and Professor, CSIR-NBRI, Lucknow) <i>"Diversity of Microbial Interactions in Nature"</i>	Keynote Lecture Pramod W. Ramteke (Emeritus Professor, RTM Nagpur University, Nagpur) <i>"Microbial Diversity in Sustainable Agriculture"</i>
1520-1550	Keynote Lecture Pinaki Sar (Professor, IIT Kharagpur, West Bengal) <i>"Exploration of microbial life within the deep biosphere underneath the Deccan Traps"</i>	Keynote Lecture Anirban Roy Chaudhary (Senior Principal Scientist, CSIR-IMTECH, Chandigarh) <i>"Process development and scale up for production of microbial exopolysaccharides: Petri plate to pilot plant"</i>
1555-1615	Natesan Manickam (Chief Scientist, CSIR-Indian Institute of Toxicology Research) <i>"Biodegradation of multiple PAHs from waste water treatment plant soil-sludge samples by a microbial consortium"</i>	Banwari Lal (Senior Director, Environmental and Industrial biotechnology, The Energy and Resources Institute, New Delhi) <i>"A Case study on Restoration of oil spills site in Kuwait oil field"</i>
1620-1640	Rekha Kumari (Associate Professor, Miranda House, DU) <i>"Role of Gut Bacterial Bacteriocins to Combat Obesity By Regulating Lipogenesis In Host"</i>	Prashant Phale (Professor, IIT Bombay, Mumbai) <i>"Pseudomonas bharatica CSV86 T: An ideal host for in situ bioremediation and metabolic engineering"</i>
1645-1705	Mallikarjun Shakarad (Professor, University of Delhi, Delhi) <i>"Evolution and importance of microbes in extreme environments"</i>	Pratyosh Shukla (Professor, Banaras Hindu University, Varanasi) <i>"Prospects of enhancing the production of cyanobacterial metabolites: futuristic strategies revisited"</i>
1710-1730	Rajeev Kaushik (Principal Scientist, ICAR-IARI, New Delhi) <i>"Rhizosphere Dwelling Halophilic Archaea: Potential Role in Agriculture"</i>	Gunjan Pandey (Senior Research Scientist, CSIRO, Australia) <i>"Enzymatic bioremediation of pesticides"</i>
1735-1755	Dev Raj Joshi (Associate Professor, Tribhuvan University, Nepal) <i>"SARS CoV-2 in the environment: Sewage surveillance to predict community spread of COVID-19"</i>	Kashyap K. Dubey (Associate Professor, JNU, New Delhi) <i>"Microbes for mineralization of cancer drugs present in hospital wastewater"</i>
1755-1805	Tea Break 	
1810-1830	Suresh Kumar Dubey (Professor, Department of Botany, BHU, Varanasi) <i>"Evaluation of the bacterial potential for biodegradation of imidacloprid"</i>	Vishakha Raina (Professor, KIIT, Bhubaneswar) <i>"Microbial Enzymes: Making Food Safe"</i>
1835-1855	Kosala Sirisena (Senior Lecturer, University of Colombo, Sri Lanka) <i>"Insight into Hot Spring Microbiomes in Sri Lanka: Biodiversity and Biotechnological Prospects"</i>	Namrata Misra (Assistant Professor, KIIT-TBI, Bhubaneswar) <i>"Indian Biotech Innovation Landscape and Entrepreneurship Driving Soil Research"</i>

1900-1920	Radha Prasanna (Professor, ICAR-IARI, New Delhi) <i>"Agriculturally beneficial biofilms as climate-smart options for sustainable agriculture: from lab to land"</i>	Satyanarayana Patel (Research Associate, Center of Innovative and Applied Bioprocessing (CIAB)) <i>"Novel D-allulose 3-epimerase variants for production of the functional sugar of anti-diabetic and anti-obesity potential, D-allulose"</i>
1920-1940	Janmejy Pandey (Assistant Professor, CUH, Rajasthan) <i>"Implementation of drought tolerance enhancing plant growth promoting rhizobacteria for sustainable agriculture in arid agroecosystems: Challenges and Technological Interventions"</i>	Roshan Kumar (Assistant Professor, PG Department of Zoology, Magadh University) <i>"Monkey Pox Virus (MPXV): Phylogenomics, Host-Pathogen Interactome, and Mutational Cascade"</i>
CLOSING OF THE DAY		

Day 3: 10th November, 2022 (Thursday)

IST	Event	
0900-0940	Plenary Lecture [ROOM A] Craig Cary (Professor, Department of Biological Sciences, The University of Waikato, New Zealand.)	
	Session 4 (0945-1240) [ROOM A] Extremophiles	Session 5 (0945-1240) [Room B] Microbiology in the last 75 years in India
0945-1015	Keynote Lecture Sanjay Kumar (Director, CSIR-IHBT, Palampur) <i>"Bioprospecting Microbes from Himalayan Niches for the Benefit of the Society"</i>	Keynote Lecture V. C. Kalia (Professor, Konkuk University, South Korea) <i>"Bacteria as AntiCancer Agents"</i>
1020-1050	Keynote Lecture Dharam Singh (Senior Principal Scientist, CSIR-IHBT, Palampur) <i>"Biodegradable Bioplastic from Bacteria of Himalayan Niches: A Greener Solution"</i>	Keynote Lecture Swaranjit Singh (Director, SAS Free Polyclinic, Punjab) <i>" "</i>
1055-1115	Rakshak Kumar (Scientist, CSIR-IHBT, Palampur) <i>"Human Fecal Waste-The Himalayan way of on-site sanitation and resource recovery"</i>	Jyoti Prakash Tamang (Professor, Sikkim University, Sikkim) <i>"Domestication of some beneficial microbes for food fermentation"</i>
1115-1130	Tea Break 	
1130-1150	Asha Chaubey (Senior Principal Scientist, CSIR-IIIM, Jammu) <i>"Fermentation based green processes for biopharmaceuticals: Need of hour for sustainable future"</i>	Alok Prasad Das (Assistant Professor, Rama Devi Women's University, Orissa) <i>"Microorganisms in Emerging Marine Waste Management"</i>


1155-1215	Anil Kant Thakur (Associate Professor, Jaypee University, Solan) <i>"Spray induced RNAi: A promising approach towards Plant disease and Pest management"</i>	Krishnendu Mondal (Scientist C, Ministry of Environment, Forests & Climate Change, Government of India) <i>"Environmental Pollution and Remedies"</i>
1220-1240	Vibha Tondon (Professor, JNU, New Delhi) <i>"Unique gate dynamics of topo IA in the presence of PPEF which combats WHO listed priority pathogens to DNA Topology in genomic transactions"</i>	Madhu Choudhary (Scientist, ICAR-CSSRI, Karnal) <i>"Climate smart farming and their effects on microbial properties under major agri-food systems of Indo-Gangetic Plains"</i>
1240-1320	INSCR GB Meeting	
1320-1400	Lunch Break 	
1400-1440	Plenary Lecture [ROOM A] Juan Luis Ramos (Professor, University of Geneva, Switzerland) <i>"The double life style of Pseudomonas putida: A useful chassis for rhizoremediation and production of added-value chemicals"</i>	
	Session 6 (1445-1815) [ROOM A] Microbial Diversity	Session 7 (1445-1815) [ROOM B] Applied Microbiology and Sustainable Agriculture
1445-1515	Keynote Lecture Jörg Overmann (Professor, DSMZ, Germany) <i>"Functions and future applications of soil microbial diversity"</i>	Keynote Lecture Gerrard Eddy Jai Poinern (Senior Lecturer, Murdoch University, Western Australia) <i>"Innovative Hydrochar Biowaste Material amendments in Agricultural Soils and its impact on N₂O Green House Gas"</i>
1520-1540	Suresh Korpole (Principal Scientist, CSIR-IMTECH, Chandigarh) <i>"Role of a microbial resource centre (MTCC) in conservation and exploitation of microbial diversity"</i>	Praveen Rishi (Professor, Panjab University, Patiala) <i>"Anti-biofouling of heterogeneous surfaces using microbially derived cocktail of carbohydrases: A Green Approach"</i>
1545-1605	Gaurav Sharma (DST-INSPIRE Faculty Scientist, Institute of Bioinformatics and Applied Biotechnology (IBAB), Bengaluru) <i>"Understanding the sensory mechanisms in Mycobacteria"</i>	Sunil Pabbi (Principal Scientist, ICAR-IARI, New Delhi) <i>"Microbial formulations for sustaining crop productivity, soil health and environment."</i>
1610-1630	P. Anil Kumar (Principal Scientist, CSIR-IMTECH, Chandigarh) <i>"Yeast biosurfactants with potential antimicrobial properties"</i>	Sanjukta Subudhi (Area Convener, Microbial Biofuels and Biochemicals, The Energy and Resources Institute, New Delhi) <i>"Moving towards Biorefineries: Integrated production of Biofuels and Bio-commodities"</i>
1635-1655	Om Prakash (Symbiosis Center for Climate Change and Sustainability, Symbiosis International University, Pune) <i>"Two-Dimensional Cell Separation: a High-Throughput Approach to Enhance the Culturability of Bacterial Cells from Environmental Samples"</i>	Mansi Verma (Assistant Professor, Hansraj College, University of Delhi) <i>"Comparative 'omics' of Dengue Virus"</i>
1700-1720	Punyasloke Bhadury (Professor, IISER, Kolkata) <i>"Microbial biocomplexity in coastal Bay of Bengal- molecular perspectives on biogeochemical cycling"</i>	Minakshi Grover (Principal Scientist, ICAR-IARI, New Delhi) <i>"Microorganisms as tool to mitigate abiotic stress in plants"</i>
1725-1745	Jasvinder Kaur (Assistant Professor, Gargi College, DU) <i>"Phylogenomics based reclassification in the genus Psychrobacter"</i>	P.C. Abhilash (Assistant Professor, IESD-BHU, Varanasi)

		<i>"Crop diversification as a sustainable strategy for food security and improving soil microbial diversity"</i>
1755-1815	Amit Kumar Rai (Scientist C, Institute of Bioresources and Sustainable Development) <i>"Microbial biotransformation during protein rich food production and production of bioactive peptides"</i>	L.P. Singha (NPDF, School of Biotechnology, BHU) <i>"Rhizosphere Microbiome Engineering for Bioremediation of Emerging Pollutants"</i>
1820-1835	Tea Break 	
1840-1920	Plenary Lecture [ROOM A] Hans H. Richnow (Ex-Professor, Helmholtz-Centre for Environmental Research, Germany) <i>"HCH and degradation in plant, trees and rhizosphere"</i>	
1930-2010	Plenary Lecture [ROOM A] William B. Whitman (Emeritus Professor, University of Georgia, Athens) <i>"Why we need the SeqCode: a code of nomenclature based on genome sequences"</i>	

Day 4: 11th November, 2022 (Friday)

IST (hrs)	Event			
	Session 8 (0900-1350) [ROOM A] Microbial Pathogenesis and Disease Dynamics		Session 9 (0900-1310) [ROOM B and ROOM C] Research at UG/PG Level	
			Faculty Oral Talks [ROOM B]	Student Oral Talks [ROOM C]
0900-0930	Keynote Lecture Bechan Sharma (Professor, Department of Biochemistry, University of Allahabad) <i>"On the molecular interplay between HIV-1 and host cells, viral pathogenesis and drug resistance"</i>	0900-0910	Rachna Joshi (Towards development of Hydrogen fuel: For clean and safe environment: Study of properties of Hydrogen atom under pressure)	Sonam Antil (Crude N-butyl alcohol extract of <i>Bacillus megaterium</i> strain KMT-8 fermentation supernatant exhibits antagonistic activity against <i>Meloidogyne javanica</i>)
		0910-0920	Shallu Sachdeva (Women in Science – Past and Present)	Aishwary Kumar Chaturvedi (Microbes as natural crusader for pollutants in Air)
		0920-0930	Monica Misra (Role of Indian Women in Science)	Manjitha Baruah (Incidence of human Extraintestinal pathogenic <i>Escherichia coli</i> (ExPEC) ST131 fimH30 and H30Rx subclones in multidrug-resistant <i>E. coli</i> of bovine infection)
0935-0955	Arun Sidram Kharat (Professor, JNU, New Delhi) <i>"Oxacillinases and virulence in Gram negative pathogens"</i>	0930-0940	Rajni Gupta (Microbes and their role in Soil Health)	Nabeela Farhat (Broad spectrum inhibitors against class A, B, C type β -lactamases to block the hydrolysis against antibiotics: Kinetics and structural characterization)

		0940-0950	Parminder Kaur (<i>Insight into the role of carotenoid synthesis in Chlamydomonas reinhardtii- A case study</i>)	Subhransu Sekhar Behera (<i>Genome wide exploration of chitinolytic Streptomyces sp. strain RB7AG, its production potential of chitosan and its application</i>)
		0950-1000	Vijya Laxmi (<i>MEOR: A beneficial microbial interaction for oil recovery</i>)	Priyadarshini Pratikshya Nayak (<i>Unveiling the insights of finger millet (Eleusine coracana) via making and fermentation assisting degradation of pesticides</i>)
1000-1020	Indrakant K Singh (Associate Professor, Deshbandhu College, DU) <i>“Reconstructing gut microbiota: A forthcoming era of colorectal cancer therapeutics”</i>	1000-1010	Tripti Negi (<i>Microbial Interactions: A Novel Way To Find Biomolecules For Biotechnological Applications</i>)	Vridhi Singh (<i>Mushroom Cultivation: A Non-Conventional Approach To Convert College Generated Lignocellulosic Waste Into Environmentally Sustainable Products</i>)
		1010-1020	Rashmi Sharma (<i>What Do We Owe to the Scientists?</i>)	Satender kumar (<i>Soil health: a macro and micronutrient perspective</i>)
1025-1045	Junaid Jibran Jawed (Assistant Professor, Presidency University, Kolkata) <i>“Combating protozoan infection with immune cells – A novel strategy to overcome drug resistance”</i>	1020-1030	Rama Sisodia (<i>What Do We Owe to the Scientists?</i>)	Harsha (<i>Evaluation of Bioactive compounds from Streptomyces spp. As an antifungal agent against diverse pathogenic fungi</i>)
		1030-1040	Indranil Chattopadhyay (<i>Salivary bacteria profile may unravel the impact in head and neck cancer and lung adenocarcinoma</i>)	Haritha Prasad (<i>Massive outbreak of bioluminescent tides of heterotrophic dinoflagellate Noctiluca scintillans (Mycozoa: Dinophyceae) along the south-west coast of India</i>)
		1040-1050	Prajwalit Shikha (<i>Women in STEM: Impact of Gender Stereotypes</i>)	Sruthi S. Kumar (<i>Air Pollution Tolerance Index (APTI) – a tool to measure pollution</i>)
1050-1110	Baljeet Kaur (Associate Professor, Hansraj College, DU) <i>“A novel binary k-mer approach for classification of coding and noncoding RNAs across diverse species”</i>	1050-1100	Neeraja Sood (<i>HPV Vaccine- The crusader against cervical cancer</i>)	Gauri Ghai (<i>A Novel Architecture of Ultra-Thin Body Silicon On Insulator (UTB SOI) MOSFET for Biomolecular Sensing Application</i>)
		1100-1110	-	Shamashree Samanta (<i>Bionvaste to Personal Protective Equipment (PPEs)</i>)
1115-1135	Vikas Sood (Assistant Professor, Jamia Hamdard) <i>“Novel insights into host responses to Japanese Encephalitis Virus infection: Reanalysis of public transcriptome and microRNAome datasets”</i>	1110-1120	-	Shruti Sinha (<i>Development of miniaturized agar based assays in 96-well microplates applicable to high-throughput screening of industrially valuable microorganisms</i>)
		1120-1130	-	Sailee Sanjay Asolkar (<i>Strategies for improvement in 2,3 Butanediol production in Bacillus subtilis</i>)
1135-1145	Tea Break			
1150-1230	Plenary Talk Anil Koul (Vice-President, Global Health Discovery and Partnerships, Johnson & Johnson, Belgium) <i>“Global Challenges of AMR”</i>	1150-1200	-	Neetu Yadav (<i>Ganga river water quality assessment using combined approaches: Physico-chemical parameters and bacterial isolation with special reference to bioremediation of Lindane</i>)
		1200-1210	-	Aditi Singh (<i>Soil bacteria isolated from the metsulfuron methyl herbicide contaminated agricultural land to clean the environment</i>)
		1210-1220	-	Manisha Behera (<i>Incidence of human Extraintestinal pathogenic Escherichia coli (ExPEC) ST131 fimH30 and H30R\times subclones in multidrug-resistant E. coli of bovine infection</i>)

		1220-1230	-	Sumit Vashista (<i>Bluetooth Beacons: Location based Geofence for crowd management</i>)
1235-1255	Bertasi Barbara (Istituto Zooprofilattico Sperimentale della Lombardia ed Emilia, Italy) (8:05AM) <i>"SARS-CoV2 monitoring in waste water: the Italian experience"</i>	1230-1240		Absar Talat (<i>Detection of E. coli IncX1 Plasmid-Mediated mcr-5.1 Gene in an Indian Hospital Sewage Water Using Shotgun Metagenomic Sequencing: A First Report</i>)
		1240-1250		Mayouri Das (<i>Screening Of PGA producing Bacillus from bemertbu</i>)
1255-1315	Pooja Arora (Assistant Professor, Hansraj College, University of Delhi) <i>"Time Series Analysis of SARS-CoV-2 Genomes and Correlations among Highly Prevalent Mutations"</i>	1250-1300		Sonam Lama (<i>Probiotic screening of yeasts from dahi</i>)
		1300-1310		Manisha Gurnani (<i>Cyano-compounds as inhibitors of essential divisome proteins in human pathogenic bacteria</i>)
1315-1335	Helianthous (Assistant Professor, Ramjas College, University of Delhi) <i>"Understanding the potential drug targets in Mycobacterium tuberculosis using comparative genomics analysis"</i>			
1335-1355	Nirjara Singhvi (Assistant Professor, Dev Bhoomi Uttarakhand University) <i>"Omics approach to understand the Regulation and Expression of Secondary Metabolite Production in Actinobacteria"</i>			
1355-1415	Sinosh Skariyachan (Assistant Professor, St. Pius X College, Kerala) <i>"Computational modelling and virtual screening decipher that response regulator GACA and transcriptional activator RHLR proteins of biofilm associated Pseudomonas aeruginosa are prospective molecular targets for natural lead molecules"</i>			
1415-1500	Lunch Break 			
1500-1730	Session 10 [ROOM A] Women in Science			
1505-1535	Keynote Lecture Pratibha Jolly (Principal, Miranda House, DU) <i>"Advancing Gender Equity for Women in Science"</i>			
1540-1600	Agnieszka Dybala-Defratyka (Associate Professor, Lodz University of Technology, Poland) <i>"The Application of Molecular Modeling Tools in the Study of Environmental Processes"</i>			
1605-1625	Tista Prasai Joshi (Scientist, Nepal Academy of Science and Technology, Kathmandu) <i>"Women in Science: Status and Challenges in Nepal"</i>			
1630-1650	Atya Kapley (Senior Principal Scientist, CSIR-NEERI, Nagpur) <i>"Antibiotic resistance and wastewater management"</i>			
1655-1715	Corinne Maurice (Assistant Professor, McGill University, Canada) <i>"Using bacteriophages to modulate the gut microbiome"</i>			

1720-1740	Kalai Mathee (Professor, Florida International University, USA) “”
1800-1840	Valedictory Ceremony [Room A] Chief Guest: Prof. R. C. Sobti
1800-1810	Chief Guest Address: Prof. R. C. Sobti
1810-1815	Competition Winners Announcement
1815-1820	INSCR Second Issue Release
1820-1825	FEMS Special Issue Announcement
1825-1830	Concluding Remarks
1830-1840	Vote of Thanks