



Biospectrum 2024

International Conference on Biotechnology and Biological Sciences

University of Engineering and Management, Kolkata

14th -16th November 2024

TECHNICAL SCHEDULE

CONTENTS

DAY 1 (14th Nov 2024)	EVENT DETAILS	TIMING
	REGISTRATION [Buddha - AUDITORIUM]	8:30AM onwards
	BREAKFAST [AC CAFETERIA, B1 BUILDING]	9:00 AM-10:00 AM
	INAUGURATION [FICCI - AUDITORIUM]	10:00 AM – 10:30 AM
	GLOBAL EXCELLENCE AWARD [FICCI - AUDITORIUM]	10:30 AM – 11:30 AM
	TEA-BREAK	11:30 AM – 12 NOON
	Keynote 1: Dr. Shalini Dhyani [FICCI - AUDITORIUM]	12:00 NOON- 12:45 PM
	Keynote 2: Dr. Prof. Dr. Chitra Mandal. [FICCI - AUDITORIUM]	12:45 PM-1:30 PM
	LUNCH [AC CAFETERIA, B1 BUILDING]	1:30 PM-2:30 PM
	Internal Poster Competition [Buddha - AUDITORIUM]	2:30 PM-4:00 PM
	Parallel Session 1 (Oral Session):Environmental Biotechnology [FICCI – AUDITORIUM, B3 Building]	3:30 PM-5:00 PM
	Parallel Session 2 (Oral Session): Microbial Biotechnology [BOARD ROOM- B3 Building]	3:30 PM-5:00 PM
	Parallel Session 3 (Oral Session): Plant Biotechnology [B1 LG 0.2- B1 Building]	3:30 PM-5:00 PM
	Parallel Session 4 (Oral Session): Implication of Biotechnology in Health Science [B1 LG 0.3- AUDITORIUM, B1 Building]	
	Parallel Session 1 (Poster Session):Environmental Biotechnology [B1, LG 0.4 B1 Building]	3:30 PM-5:00 PM
	Parallel Session 2 (Poster Session): Microbial Biotechnology [B1 LG 1.4, B1 Building]	3:30 PM-5:00 PM
	Parallel Session 3 (Poster Session): Plant Biotechnology [B1 LG 2.1 Building]	3:30 PM-5:00 PM
	Keynote 3: Dr. Tae Seok Moon [FICCI - AUDITORIUM]	5:00 PM-5:45 PM IST

DAY 2 (15 th Nov 2024)	EVENT DETAILS	TIMING
	REGISTRATION [Buddha - AUDITORIUM]	8:30AM onwards
	BREAKFAST [AC CAFETERIA, B1 BUILDING]	9:00 AM-10:00 AM
	Keynote 4: Dr. Saugata Hazra [FICCI - AUDITORIUM]	10:00 AM-10:45 AM
	Keynote 5: Dr. Saumyabrata Mazumder [FICCI - AUDITORIUM]	10:45 AM-11:30 AM
	Keynote 6: Mr. Abhijit Bhattacharya [FICCI - AUDITORIUM]	11:30 AM-12:15 PM
	Special Lecture 1: Ms. Anusha Daragshetti [FICCI - AUDITORIUM]	12:15 PM-12:45PM
	Keynote 7: Prof. Dr. Habil. Leonard Atanase [FICCI - AUDITORIUM]	12:45 PM-1:30 PM
	LUNCH [AC CAFETERIA, B1 BUILDING]	1:30 PM-2:30 PM
	Poster Competition for YOUNG SCIENTIFIC MINDS [Buddha - AUDITORIUM]	2:30 PM -4:00 PM
	Parallel Session 1 (Oral Session): [FICCI – AUDITORIUM, B3 Building]	2:30 PM-5:00 PM
	Parallel Session 2 (Oral Session): [BOARD ROOM- AUDITORIUM, B3 Building]	2:30 PM-5:00 PM
	Parallel Session 3 (Oral Session): [B1 LG 0.4- AUDITORIUM, B1 Building]	2:30 PM-5:00 PM
	Parallel Session 1 (Poster Session): [B1, LG 0.2- AUDITORIUM, B1 Building]	2:30 PM-5:00 PM
	Parallel Session 2 (Poster Session): [B1 LG 0.3- AUDITORIUM, B1 Building]	2:30 PM-5:00 PM
	Parallel Session 3 (Poster Session): [B1 LG 1.4- AUDITORIUM, B1 Building]	2:30 PM-5:00 PM
	Tea Break	5:00 PM-5:30 PM

DAY 3 (16th Nov 2024)	EVENT DETAILS	TIMING
	REGISTRATION [Buddha - AUDITORIUM]	8:30AM onwards
	BREAKFAST [AC CAFETERIA, B1 BUILDING]	9:00 AM-10:00 AM
	WORKSHOP [Board Room, B3 Building]	10:00 AM -1:00 PM
	Keynote 8:	
	LUNCH	1:00 PM-2:00 PM
	VALEDICTORY [FICCI – AUDITORIUM, B3 Building]	2:15 PM-2:45 PM

DAY 1: 14th Nov 2024

TIME	PARALLEL SESSION
10 AM-10:30 AM	INAUGURATION CEREMONY OF BIOSPECTRUM 2024
Link	https://us06web.zoom.us/j/83828954841
10:30 AM-11: 30 AM	GLOBAL EXCELLENCE AWARD Dr. Kalyan Rudra, Chairman, West Bengal Pollution Control Board, West Bengal, India Prof. Kaustuv Sanyal , Director, Bose Institute Kolkata, West Bengal India Dr. Shalini Dhyani, Principal Scientist, CSIR-NEERI, Nagpur Dr. Sanchita Mukherjee, Founder, Rigel Bioenviron Solutions Pvt. Ltd

TIME	NAME OF THE EVENT
Link	https://us06web.zoom.us/j/83828954841
12:00 PM – 12:45 PM	<p>KEYNOTE ADDRESS BY Dr. SHALINI DHYANI (PRINCIPAL SCIENTIST, CSIR-NEERI, NAGPUR)</p>
12:45 PM – 1:30 PM	<p>KEYNOTE ADDRESS BY Dr. Prof. Dr. Chitra Mandal. Ex- Acting Director And Distinguished Biotechnology Research Professor of Indian Institute of Chemical Biology, Kolkata (IICB)</p>

1:30 PM-2:30 PM	LUNCH BREAK
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PARALLEL SESSIONS

ORAL SESSION 1: Environmental Biotechnology

SESSION CHAIR: Dr. Phani Bhushan Ghosh

SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14th Nov 2024)

Venue: FICCI Auditorium

Link: <https://meet.google.com/izm-jjiy-igm>

Faculty Coordinator: Dr. Sonali Paul

TIME ALLOTTED	PAPER ID	PAPER NAME	Author
3:30 PM-3:40 PM	Biospec/Env/ PA/01	Characterization and quantitative analysis of microplastics in water and sediment samples of Chandipur coast	PRATYUSHA NAYAK
3:40 PM-3:50 PM	Biospec/Env/ PA/02	Biochemical Alterations in Fresh water Bivalve <i>Lamellidens marginalis</i> on Exposure to Organotin Compound TBTCI	STHITAPRAJNA NATH SHARMA
3:50 PM-4:00 PM	Biospec/Env/ PA/03	Distribution, Quantification and source determination of polycyclic aromatic hydrocarbon (PAHs) in surface water, sediment and faunal samples of Budhabalanga river estuary	SUBHASHREE NAYAK

4:00 PM-4:10 PM	Biospec/Env/ PA/04	Study on bioaccumulation and tissue alterations in freshwater bivalve <i>Lamellidens marginalis</i> exposed to Polystyrene microplastics	NISHIGANDHA MUDULI
4:10 PM-4:20 PM	Biospec/Env/ PA/05	Analysis of elemental composition using Energy dispersive X-Ray (EDX) in few marine planktons off Chandipur coast	SMRUTI PRAJNA PRADHAN
4:20 PM-4:30 PM	Biospec/Env/ PA/06	Plastic Pollution as a Contributor to Growing Carcinoma Cases in India: Threats and Challenges	Abhisikta Basu
4:30 PM-4:40 PM	Biospec/Env/ PA/07	Comparative Analysis of Soil Organic Carbon Prediction Using Linear Regression, Classification and Regression Trees, and Artificial Neural Networks in the North-eastern hills of India	Wati Temjen
4:40 PM-4:50 PM	Biospec/Env/ PA/08	Eco-friendly separation of Lactic Acid through Green Emulsion Liquid Membrane	Jyotsana Singh
4:50 PM-5:00 PM	Biospec/Env/ PA/38	Biosorption efficacy studies of <i>Bacillus cereus</i> F4810/72 on the removal of Cr (VI) from tannery effluents	Arghyadeep Bhattacharjee
5:00 PM-5:10 PM	Biospec/Env/ PA/47	POLICY INTERVENTION TOWARDS ECOLOGICAL BALANCE THROUGH REDUCTION OF CARBON FOOTPRINT IN INDIA	Aritra Jana

ORAL SESSION 2: MICROBIAL BIOTECHNOLOGY**SESSION CHAIR: Dr. Ruchira Mukherjee****SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14th Nov 2024)****Venue: Board Room (B3 Building)****Faculty Coordinator: Dr. Dibyajit Lahiri****Video call link: <https://meet.google.com/obw-sugg-syz>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
3:30 PM-3:40 PM	Biospec/Mrcoor/ PA/09	Structural insight of β -amylase from <i>Bacillus</i> spp : an <i>in silico</i> investigation for a plausible explanation of thermostability	Debanjan Mitra
3:40 PM-3:50 PM	Biospec/Mrcoor/ PA/11	Electron microscopic observation to the effects of nano-silver particles on <i>E. coli</i> , <i>S. aureus</i> , <i>P. aeruginosa</i> and <i>C. albicans</i> .	ARCHI GHOSH
3:50 PM-4:00 PM	Biospec/Mrcoor/ PA/12	Annotation of sequences as Transposases eluted in the WGS of <i>Salmonella enterica</i> (MRB2), a Mahanadi River Isolate	Dr (Mrs) Smaranika Pattnaik
4:00 PM-4:10 PM	Biospec/Mrcoor/ PA/13	Prevalence of the icaAD Gene and its Role in Biofilm Production and Antimicrobial Resistance among Multi-drug Resistant <i>Staphylococcus aureus</i>	Dr Indu Sharma
4:10 PM-4:20 PM	Biospec/Mrcoor/ PA/14	Probiotics: As an imminent strategy to battle ESKAPE pathogens in the oral cavity, in the age of antibiotic resistance	Dr. Indranil Chattopadhyay
4:20 PM-4:30 PM	Biospec/Mrcoor/ PA/15	Molecular mechanism of antibiotic resistance in multidrug resistant isolates of <i>S. aureus</i> from Bovine Sample from Kamrup (M), Assam, India	MRIGAKSHI GOGOI

4:30 PM-4:40 PM	Biospec/Mrcoor/ PA/17	<i>In silico</i> studies for screening of phytochemicals against mycobacterial efflux pump protein Rv0194	SANTASREE SARMA BISWAS
4:40 PM-4:50 PM	Biospec/Mrcoor/ PA/18	Molecular modelling, docking and dynamics simulation of CFEM-GPCRs of <i>Magnaporthe oryzae</i> with ligands in rice blast pathogenesis	Mousumi Biswas

ORAL SESSION 3: Plant Biotechnology
SESSION CHAIR: Dr. Shonima Talapatra Ghosh
SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14th Nov 2024)
Venue: B1 LG 0.2
Faculty Coordinator: Dr. Pratik Talukder
Link: <https://meet.google.com/heh-zkcr-seu>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:30 PM-3:40 PM	Biospec/Plant/ PA/19	RECENT ADVANCES IN SPICES RESEARCH – A REVIEW PAPER	Dr. B.B. Borse
3:40 PM-3:50 PM	Biospec/Plant/ PA/20	Brewing Traditions of Northeast India, South Assam: Exploring Rice Beer’s Cultural Significance and Indigenous Craftsmanship	Hanna Yumnam
3:50 PM-4:00 PM	Biospec/Plant/ PA/21	Characterization of Gaultheria fragrantissima of Tawang, Arunachal Pradesh	Rigzen Angmo
4:00 PM-4:10 PM	Biospec/Plant/ PA/22	Valorization of Flower Waste of Acacia Catechu into Natural Dye	Dr. PRIYANKA SINGH
4:10 PM-4:20 PM	Biospec/Plant/ PA/23	“Unraveling the Plant Growth-Promoting Properties of Endophytic Bacteria from Ledebouria sp.: A Novel Approach for Agricultural Applications”	Dr. Jayshri Jaywantrao Bhuktar
4:20 PM-4:30 PM	Biospec/Plant/ PA/24	Plant Essential Oil based Nanolarvicidal Formulation for Filariasis Vector Control	Dr Vijayalakshmi Ghosh
4:30 PM-4:40 PM	Biospec/Plant/ PA/41	Elucidating Metabolite Dynamics Through Glutathione-Ascorbate Pathway in the Paradigm of Vetiver Phytoremediation- Understanding the Lead Stress in	Camellia Mazumder

		<i>Solanam melongena L</i>	
4:40 PM-4:50 PM	Biospec/Plant/ PA/46	A study of the biomarker responses of Water Spinach grown in polluted water	Ayan Chowdhury
4:50 PM-5:00 PM	Biospec/Plant/ PA/48	Bivalent Nickel Exposure Induced Mitotic Toxicity in Onion Root Tips	Smaranika Mania

ORAL SESSION 3: Implication of Biotechnology in Health Science

SESSION CHAIR: Dr. Debasmita Bhattacharya

SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14th Nov 2024)

Venue: B1 LG 0.3

Faculty Coordinator: Dr. Moupriya Nag

Link: <https://meet.google.com/vyy-hmrc-nez>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:30 PM-3:40 PM	Biospec/ Health Sci/ PA/25	Probucol modulates iron nitrilotriacetate (Fe-NTA)-induced renal carcinogenesis and hyperproliferative response by reducing oxidative stress in rats	MOHAMMAD IQBAL
3:40 PM-3:50 PM	Biospec/ Health Sci/ PA/26	Paclitaxel sensitizes Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand (TRAIL) resistant breast cancer cells towards rhTRAIL mediated apoptosis	Nirajan Ghosal
3:50 PM-4:00 PM	Biospec/ Health Sci/ PA/27	THERANOSTIC APPLICATIONS OF NANOBIO TECHNOLOGY IN BREAST CANCER	Sampreeti Chatterjee
4:00 PM-4:10 PM	Biospec/ Health Sci/ PA/74	Advanced Hybrid Encryption Framework for Securing Large-Scale Cancer Image Data on AWS Using Chaotic Maps, DNA-Based Diffusion, and Dynamic Fuzzy Logic Modulation	Snehashish Bhattacharjee

4:10 PM-4:20 PM	Biospec/Health Sci/ PA/28	Relation between Hematology Based Cell Ratios and Indices with Serum Malondialdehyde Levels in the Severity of Asthma: A South Indian Study.	Tasneem Fatima
4:20 PM-4:30 PM	Biospec/Health Sci/ PA/29	Important takeaway from COVID-19 trial on nebulization and inhaler use to direct future developments in respiratory disorders	Dr. Aditi Munmun Sengupta
4:30 PM-4:40 PM	Biospec/Health Sci/ PA/31	Fermentative Production and Sensory Analysis of Flavoured Whey Drinks	Dr Parul Thapar
4:40 PM-4:50 PM	Biospec/Health Sci/ PA/32	In-Vitro Evaluation of the Anti-inflammatory and Anti-Diabetic Potential of Mastoparan-VT7: A Bioactive Peptide from Wasp Venom	Grace vanathi M

**POSTER SESSION 1: ENVIRONMENTAL
BIOTECHNOLOGY**

SESSION CHAIR: Dr. Amit Chattopadhyay

SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14th Nov 2024)

Venue: B1 LG 0.4

Link: <https://meet.google.com/bsm-okvf-gki>

Faculty Coordinator: Dr. Sonali Paul

TIME ALLOTTED	POSTER ID	POSTER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:30 PM-3:40 PM	Biospec/Env/ PO/01	Application of Nanoparticles: a promising tool for bioremediation of heavy metal-polluted water	INDRANI BANERJEE
3:40 PM-3:50 PM	Biospec/Env/ PO/02	Neuralink and the Future of Neuropsychiatric Disorder Diagnosis through Brain-Computer Interface Technology	Ali Wahab Showhardo
3:50 PM-4:00 PM	Biospec/Env/ PO/03	Potential of Pleurotus ostreatus CD6 in Degradation of Chlorpyrifos	Arkodeep Dutta

4:00 PM-4:10 PM	Biospec/Env/ PO/04	Detection of malathion in food using nanoparticle-based colorimetric sensing system	URMI SARKAR
4:10 PM-4:20 PM	Biospec/Env/ PO/05	Biosorption of Heavy Metals (Pb and Cr) using Cyanobacterium Phormidium corium: an Eco-Sustainable Path for Greener Water Treatment	Dr. Abhijeet Mahana
4:20 PM-4:30 PM	Biospec/Env/ PO/06	A Comprehensive Valorization Model for Litopenaeus vannamei Shrimp Waste Management: Zero-Waste Approach with SWOT Analysis	SOMASHREE BANDYOPADHAYA

POSTER SESSION 2: MICROBIAL BIOTECHNOLOGY**SESSION CHAIR: Dr. Kakoli Dutta****SESSION TIME: 2:00 PM – 3:15 PM (DAY 1: 14th Nov 2024)****B1 LG 1.4****Faculty Coordinator: Dr. Dibyajit Lahiri****Link: <https://meet.google.com/aqs-ssww-urt>**

TIME ALLOTTED	PAPER ID	POSTER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:30 PM-3:40 PM	Biospec/Mrcoor/ PO/07	A microbial boat in Sundarban agricultural soil: A case study on plant growth promotion, antibiotic resistance, and thermotolerant fungi	Aiswarya Bhattacharjee
3:40 PM-3:50 PM	Biospec/Mrcoor/ PO/08	Biotechnology Industry –An overview in an Indian Perspective	PRISHAA S
3:50 PM-4:00 PM	Biospec/Mrcoor/ PO/09	Carbon Dots for Multiuse Platform: Intracellular pH Sensing and Complementary Intensified T1–T2 Dual Imaging Contrast Nanoprobes	Trisita Ghosh
4:00 PM-4:10 PM	Biospec/Mrcoor/ PO/10	Investigating the Antimicrobial Efficacy of Microbial Biosurfactants against Opportunistic Pathogens in Oral Infections: A Molecular Docking and Simulation Approach	SEELAM SANDHYA RANI
4:10 PM-4:20 PM	Biospec/Mrcoor/ PO/11	Cytarabine inhibits the surface attachment of <i>Pseudomonas aeruginosa</i> 's biofilm	Shristi Panigrahi
4:20 PM-4:30 PM	Biospec/Mrcoor/ PO/12	Green Synthesis, Characterization and Antimicrobial activity assessment of silver nanoparticles (AgNPs)	Debaleena Kashyap

4:30 PM- 4:40 PM	Biospec/Mrcoor/ PO/13	Synergistic anti-biofilm activity of <i>Annona muricata</i> leaf extract and lysostaphin against <i>Staphylococcus aureus</i>	Tilothama Bhotra
4:40 PM-4:50 PM	Biospec/Mrcoor/ PO/14	Biosorption efficacy studies of <i>Bacillus cereus</i> F810/72 on the removal of Cr (VI) from tannery effluents	Arghyadeep Bhattacharjee
4:50-5:00 PM	Biospec/Mrcoor/ PO/35	Physicochemical characterization of fermented rice water	Nitu Sahoo
5:00-5:10 PM	Biospec/Mrcoor/ PO/36	Molecular identification of epiphytic bacteria of <i>Ulva</i> sp., obtained from Chilika Lake, Odisha	Pratikhya Nanda

POSTER SESSION 3: PLANT BIOTECHNOLOGY**SESSION CHAIR: Dr. Soumik Podder****SESSION TIME: 3:30 PM – 5:00 PM (DAY 1: 14TH Nov 2024)****Faculty Coordinator: Dr. Pratik Talukder****Venue: B1 LG 2.1****Link: <https://meet.google.com/yrz-iwhg-upf>**

TIME ALLOTTED	PAPER ID	POSTER NAME	AUTHORS WITH AFFILIATION & COUNTRY
3:30 PM-3:40 PM	Biospec/Plant/ PO/15	Effect of herbaceous leaf stem on the eukaryotic cells	VIDUSHI DUBEY
3:40 PM-3:50 PM	Biospec/Plant/ PO/16	Enhancing nutritional profile, antioxidant capacity, and sensory characteristics of appam through Alpinia galanga rhizome substitution	Debopriya Mandal
3:50 PM-4:00 PM	Biospec/Plant/ PO/17	Chemical profiling and antioxidant activity of Vitex pinnata	Dr Sujata Mohanty
4:00 PM-4:10 PM	Biospec/Plant/ PO/18	Biosynthesis of Yttrium Oxide Nanoparticles from Calcareous Shell Extract and their Effect on the Growth of Acalypha indica: An Approach for Multifaceted Sustainable Agriculture Biotechnology	Shreya Chakraborty

4:10 PM-4:20 PM	Biospec/Plant/ PO/19	Biosynthesis of Iron Oxide Nanoparticles from Daucus carota Extract and its Agronomic Effects on Cyamopsis tetragonoloba for Sustainable Agriculture	MANOSI BANERJEE
4:20 PM-4:30 PM	Biospec/Plant/ PO/20	Ameliorative role of Biofertilizers for combating Hexavalent Chromium-Induced Toxicity stress in Cosmos sulphureus Cav.	Monalisa Mohanty
4:30 PM- 4:40 PM	Biospec/Plant/ PO/21	How plants perceive volatile signals and translate them into defense responses: an overview	Dr. Chiranjit Mukherjee
4:40 PM-4:50 PM	Biospec/Plant/ PO/22	Comparative analysis of the two isoforms of a classII rice small heat shock protein Oshsp18.0.	SANTANU MONDAL
4:50-5:00 PM	Biospec/Plant/ PO/23	The Therapeutic Benefits of Millets: Key Perspectives to Better Health	Sudhriti Maity

POSTER SESSION 4: Internal Poster Competition (I)**SESSION CHAIR: Dr. Tina De****SESSION TIME: 2:30 PM – 5:00 PM (DAY 1: 14TH Nov 2024)****Faculty Coordinator: Dr. Keya De Mukhopadhyay****Venue: Buddha Auditorium**

TIME ALLOTTED	PAPER ID	POSTER NAME	AUTHORS
2:30 PM-2:40 PM	Biospec/Env/ PO/ 34	Water from Air - Is it a Sustainable Solution?	Srijon Roy
2:40 PM-2:50 PM	Biospec/ Health Sci/ PO/ 32	Toxicological effect of nanoplastics on human health	Riddhi Chongder
2:50 PM-3:00 PM	Biospec/ Health Sci/ PO/ 33	From cellular homeostasis to ageing pathology: Autophagy's role in progeria and Werner syndrome	Bhaswati Roy
3:00 PM-3:10 PM	Biospec/ Internal/ PO/ 58	Bioactive-Metallo Nanoconjugate as potential downregulator of ESKAPE pathogen	Harshit Choudhary
3:10 PM-3:20 PM	Biospec/ Micro/PO/59	Bioactive Compounds as Potential Downregulators of membrane dynamics of ESKAPE pathogens	Rajanya Saha
3:20 PM-3:30 PM	Biospec/ Internal/ PO/ 39	Artificial Intelligence : Personalized Medicine and Pharmacogenomics	Suvdra Das
3:30 PM- 3:40 PM	Biospec/ Internal/ PO/ 40	The Future of Inclusion: Artificial Intelligence Supporting Autism and Intellectual Disability	Suvdra Das

3:40 PM-3:50 PM	Biospec/ Internal/ PO/ 41	The Synergy of AI and Nanotechnology in Dermatology	Suvdra Das
3:50-4:00 PM	Biospec/ Internal/ PO/ 42	AI Assisted Cancer Diagnosis: "A Modern day Tool"	Suvdra Das
4:00-4:10 PM	Biospec/ Env/PO/60	Saving life's tapestry: Protecting Biodiversity for a Sustainable future	Souvik Roy
4:10 PM-4:20 PM	Biospec/ Micro/PO/61	Phytochemicals and Food Safety: Natural Approaches for Microbial Control and Toxic Inactivation	Ekta Ghosh, Anuvab Banerjee
4:20-4:30 PM	Biospec/ Micro/PO/62	Exploring the Therapeutic Potential of Capivasertib in Glioblastoma: In Silico Analysis of PI3K-AKT Pathway Inhibition	Riya Kumari

POSTER SESSION 3: Internal Poster Competition II**SESSION CHAIR: Dr. Moupiya Ghosh****SESSION TIME: 3:30 PM – 6:00 PM (DAY 1: 14TH Nov 2024)****Faculty Coordinator: Dr. Keya De Mukhopadhyay****Venue: Buddha Auditorium**

TIME ALLOTTED	PAPER ID	POSTER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:30 PM-2:40 PM	Biospec/ Internal/ PO/ 43	Chemical imaging and microscopy using Artificial Intelligence	Suvdra Das
2:40 PM-2:50 PM	Biospec/ Internal/ PO/ 44	Role of AI in Precision Agriculture and Biotechnology	Suvdra Das
2:50 PM-3:00 PM	Biospec/ Internal/ PO/ 45	Application of Generative Artificial Intelligence in Medicinal Chemistry	Suvdra Das
3:00 PM-3:10 PM	Biospec/ Internal/ PO/ 46	The role of AI in Drug discovery and Forensic Sciences.	Sukanya Paul
3:10 PM-3:20 PM	Biospec/ Internal/ PO/ 47	Revolutionizing Forensic Science with Cognitive Forensic Intelligence	Sukanya Paul

3:20 PM-3:30 PM	Biospec/ Internal/ PO/ 48	Genomics: An AI-Driven Approach to Genetic Data	Sukanya Paul
3:30 PM- 3:40 PM	Biospec/ Internal/ PO/ 49	From Code to Cure: How AI Powers Gene Therapy Breakthroughs	Sukanya Paul
3:40 PM-3:50 PM	Biospec/ Internal/ PO/ 50	Artificial Intelligence Driven Diagnosis: Smarter Medicines and Better Life	Sukanya Paul
3:50-4:00 PM	Biospec/ Internal/ PO/ 51	Artificial Intelligence in DNA and Genome Sequencing	Sonia Kundu
4:00 PM-4:10 PM	Biospec/ Internal/ PO/ 52	A Brief Review on the use of Artificial Intelligence in Food Microbiology	Sonia Kundu
4:10 PM-4:20 PM	Biospec/ Internal/ PO/ 53	Paving the way in Retrosynthesis by Artificial Intelligence	Sonia Kundu
4:20 PM-4:30 PM	Biospec/ Internal/ PO/ 54	AI In Enhancing Vocal Bio-Markers For Lungs Diseases	Dinabandhu Sar
4:30 PM-4:40 PM	Biospec/ Internal/ PO/ 55	Artificial Intelligence: The Future of Early Cancer Detection	Dinabandhu Sar
4:40 PM-4:50 PM	Biospec/ Internal/ PO/ 56	Artificial Intelligence in Synthetic Genomics	Dinabandhu Sar

4:50 PM-5:00 PM	Biospec/ Internal/ PO/ 57	The Symphony of AI and Biosensors for The Healthcare Revolution	Dinabandhu Sar
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TIME	NAME OF THE EVENT
Link	https://us06web.zoom.us/j/82237518819
5 PM – 6 PM	KEYNOTE ADDRESS BY Dr. Tae Seok Moon (J. Craig Venter Institute)

Day 2: 15th Nov 2024

REGISTRATION [Buddha – AUDITORIUM]	8:30AM onwards
BREAKFAST [AC CAFETERIA, B1 BUILDING]	9:00 AM-10:00 AM
Keynote 4: Dr. Saugata Hazra [FICCI – AUDITORIUM]	10:00 AM-10:45 AM
Keynote 5: Dr. Saumyabrata Mazumder [FICCI – AUDITORIUM]	10:45 AM-11:30 AM
Keynote 6: Mr. Abhijit Bhattacharya [FICCI – AUDITORIUM]	11:30 AM-12:15 PM
Special Lecture 1: Ms. Anusha Daragshetti [FICCI – AUDITORIUM]	12:15 PM-12:45PM
Keynote 7: Prof. Dr. Habil. Leonard Atanase [FICCI – AUDITORIUM]	12:45 PM-1:30 PM
LUNCH [AC CAFETERIA, B1 BUILDING]	1:30 PM-2:30 PM
Parallel Session 5 (Oral Session): Environmental Biotechnology [FICCI – AUDITORIUM, B3 Building]	2:30 PM-5:00 PM
Parallel Session 6 (Oral Session): Microbial Biotechnology [BOARD ROOM- AUDITORIUM, B3 Building]	2:30 PM-5:00 PM
Parallel Session 7 (Oral Session): Plant Biotechnology I [B1 LG 0.2- B1 Building]	2:30 PM-5:00 PM
Parallel Session 8 (Oral Session): Plant Biotechnology I [B1 LG 0.3- B1 Building]	2:30 PM-5:00 PM
Parallel Session 9 (Oral Session): Implication of Biotechnology in Health Sciences [B1 LG 0.4- B1 Building]	2:30 PM-5:00 PM
Parallel Session 1 (Poster Session): Implication of Biotechnology in Health Sciences [B1, LG 1.4- B1 Building]	2:30 PM-5:00 PM
Tea Break	5:00 PM-5:30 PM

TIME	NAME OF THE EVENT
Link	https://us06web.zoom.us/j/83168993727
10:00 PM – 10:45 PM	<p align="center">KEYNOTE ADDRESS 3 BY Dr. SAUGATA HAZRA (ASSOCIATE PROFESSOR, IIT ROORKEE)</p>
10:45 PM – 11:30 AM	<p align="center">KEYNOTE ADDRESS 4 BY Dr. SAUMYABRATA MAZUMDER Senior Development Scientist Beckman Coulter Life Sciences</p>
11:30 AM-12:15 PM	<p align="center">KEYNOTE ADDRESS 5 BY Mr. ABHIJIT BHATTACHARYA Principal Software Engineer of Medtronic</p>
12:15 PM-12:45 PM	<p align="center">SPECIAL LECTURE 1 BY Ms. ANUSHA DARAGSHETTI Wiley</p>

12:45 PM-1:15 PM

**KEYNOTE ADDRESS 5 BY Prof. Dr. HABIL. LEONARD ATANASE
"Apollonia" University of Iasi, Romania**

1:30 PM-2:30 PM

LUNCH BREAK

ORAL SESSION 5: ENVIRONMENTAL BIOTECHNOLOGY**SESSION CHAIR: Dr. Maumita Bandopadhyay****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15TH Nov 2024)****Faculty Coordinator: Dr. Sonali Paul****Venue: FICCI Auditorium****Link: <https://meet.google.com/whv-epqd-vug>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
2:30 PM-2:40 PM	Biospec/Env/ PA/39	Performance evaluation of copper bioremediation from aqueous solution using jute industry solid waste, characterization and biosorption mechanism	Dr. Lata Ramrakhiani
2:40 PM-2:50 PM	Biospec/Env/ PA/42	Alteration in soil attributes due to bioplastic exposure	Anubhab Biswas
2:50 PM-3:00 PM	Biospec/Env/ PA/43	A study of the phytochemical properties of cowpea grown in soil with bioplastic incorporation	Arnab Chatterjee
3:00 PM-3:10 PM	Biospec/Env/ PA/55	Soil Microplastic Toxicity, Impact and Remediation- An Indian Perspective	Ayan Chowdhury
3:10 PM-3:20 PM	Biospec/Env/ PA/59	Feeding choices of Nilgai (<i>Boselaphus tragocamelus</i>) in and around Muzaffarpur, Bihar, India	NEETISH GAURAV

3:20 PM-3:30 PM	Biospec/Env/ PA/51	A Hierarchical Framework of Viral Taxonomy: Assessing Virulence through Sequence Homology and Environmental Modifiers	Souvik Hazra
3:30 PM-3:40 PM	Biospec/Env/ PA/77	Evaluation of Bioplastic as an eco-friendly alternative to carcinogenic plastic	Ankit Mondal

ORAL SESSION 6: MICROBIAL BIOTECHNOLOGY**SESSION CHAIR: Dr. SUBHAMOY BANERJEE****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15th Nov 2024)****Faculty Coordinator: Dr. Dibyajit Lahiri****Venue: Board Room****Link: <https://meet.google.com/bfu-dfrw-eva>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS
2:30 PM-2:40 PM	Biospec/Mrcoor/ PA/44	Effect of microbial process treatment on odor intensity of vegetable oils	Ruma Dutta
2:40 PM-2:50 PM	Biospec/Mrcoor/ PA/45	Liquid Cheese Whey: A Potential Substrate for the Production of Single Cell Protein from Economically Significant Fungi	Ankita Chakraborty
2:50 PM-3:00 PM	Biospec/Mrcoor/ PA/63	A Biologically Active Yellow Pigment from Staphylococcus sps. Production, Extraction, purification, characterization And Application in Textile and Paper Dying	Minakshi Chakraborty
3:00 PM-3:10 PM	Biospec/Mrcoor/ PA/68	ASSESMENT OF ANTIMICROBIAL RESISTANCE IN THE SURFACES AND AIR OF SELECTED WARDS AT A TERTIARY CARE HOSPITAL	Dr. Sucheta Das Maji
3:10 PM-3:20 PM	Biospec/Mrcoor/ PA/75	Targeting Pathogenic Bacteria in the Intestinal Microbiota to Combat Ulcerative Colitis: A Virtual Screening Approach to Explore the Potential of Natural Inhibitors as Therapeutic Agents	Subrata Dash
3:20 PM-3:30 PM	Biospec/Mrcoor/ PA/76	Exploring the Antimicrobial and Antibiofilm Potential of Bioactive compounds of Barnyard, Kodo, & Little Millet: The 21 st Century Crop	Saikat Mazumder

3:30 PM-3:40 PM	Biospec/Mrcoor/ PA/10	Production and toxicity prediction of tannin fermented metabiotic by newly isolated probiotic bacteria and study of its effect on gut microbiome	Dr. Ishita Biswas
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ORAL SESSION 7: PLANT BIOTECHNOLOGY I**SESSION CHAIR: Dr. Amit Vij****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15th Nov 2024)****Faculty Coordinator: Dr. Pratik Talukder****Venue: B1 LG 0.2****Link: <https://meet.google.com/jzt-okve-jna>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:30 PM-2:40 PM	Biospec/Plant/ PA/49	A study to analyze the physicochemical properties of the pectin extracted from the peels of <i>Mangifera indica</i> variant Gulabkhas	Simran Choudhury
2:40 PM-2:50 PM	Biospec/Plant/ PA/50	Isolation, Purification and characterization of proteases from Coriander and Carom	DR. Rituparna Chatterjee
2:50 PM-3:00 PM	Biospec/Plant/ PA/52	Effect of different drying techniques on drying kinetics, UAE, HPLC study of phytochemicals, morphology by SEM, texture, and color profile analysis of spongy endosperm of germinated Palmyra seed	Dr. Najmun Nahar
3:00 PM-3:10 PM	Biospec/Plant/ PA/53	An Inclusive Study on the Wound healing activity of <i>Bacopa monnieri</i> along with its and its Pharmacological and Medicinal Properties	Aritra Nandi
3:10 PM-3:20 PM	Biospec/Plant/ PA/54	The Influence of Aluminium Chloride mediated Stress on <i>Amaranthus viridis</i> L. and the Responses of Plant Defense Mechanisms	Rohan Banerjee
3:20 PM-3:30 PM	Biospec/Plant/ PA/56	Retrospects and Prospects of Transgenic Approaches Used for Abiotic Stress Tolerance in Plants	Soumoditya Banerjee

3:30 PM-4:30 PM	Biospec/Plant/ PA/57	The function of Secondary metabolites and associated Genes in combatting abiotic stress caused by Chromium nitrate in <i>Amaranthus viridis</i> L.	Titli Debnath
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ORAL SESSION 8: PLANT BIOTECHNOLOGY II**SESSION CHAIR: Dr. Uttam Paul****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15TH Nov 2024)****Faculty Coordinator: Dr. Pratik Talukder****Venue: B1 LG 0.3****Link: <https://meet.google.com/kkd-smiz-xmy>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:30 PM-2:40 PM	Biospec/Plant/ PA/58	Assessment of Aluminum-Induced Stress in <i>Chenopodium album</i> L. By Metabolic and Gene Expression Analysis	Milan Karmakar
2:40 PM-2:50 PM	Biospec/Plant/ PA/60	Exploring The Potential Of Exotic Invasive Aquatic Plant For Phytoremediation Under Metal Stress And Antibiotic Contamination	Titiksha Singh
2:50 PM-3:00 PM	Biospec/Plant/ PA/61	Secondary metabolite profiling and genetic expression of <i>Andrographis paniculata</i> (Kalmegh)	Mrinmoy Dasgupta
3:00 PM-3:10 PM	Biospec/Plant/ PA/62	Unveiling Nature's Resilience: Secondary Metabolites Production in Chromium Nitrate-treated <i>Parthenium hysterophorus</i> L. for Stress Mitigation	Snehika Sengupta
3:10 PM-3:20 PM	Biospec/Plant/ PA/65	An Investigation of Acute Toxicity caused by a pesticide, Alpha-Cypermethrin on <i>Channa punctatus</i> , <i>Eichhornia crassipes</i> and their aquatic ecosystem	Souvick Das

3:20 PM-3:30 PM	Biospec/Plant/ PA/66	CRISPR-cas mediated gene knockouts in plants as a mechanism to enhance the primary and secondary metabolism	Sayantika Hore
3:30 PM-4:30 PM	Biospec/Plant/ PA/67	Gene Editing for Resilient Crops: Advancing Disease Resistance and Crop Improvement	Sinjayee Das
4:30 PM-4:40 PM	Biospec/Plant/ PA/69	Evaluation of Antioxidant, Anti-inflammatory and Anti-fungal activity of aqueous and alcoholic extracts of Imperata 21ylindrical- An InVitro Study	Dr. R Roshni
4:40 PM-4:50 PM	Biospec/Plant/ PA/71	Biological Synthesis And Characterization Of Gold Nanoparticles Using Azolla Pinnata And Its Antioxidant, Antibacterial And Antiproliferative Activity Against MCF7 Cell Line	DR. R UMA

SESSION 9: Implication of Biotechnology in Health Science**SESSION CHAIR: Dr. Nazmiara Sabnam****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15th Nov 2024)****Faculty Coordinator: Dr. Moupriya Nag****Venue: B1 LG 0.3****Link: <https://meet.google.com/nhu-eqvj-rsz>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
2:30 PM-2:40 PM		Unraveling The Diverse Roles of ELF3: A Transcriptional Orchestrator in Human Epithelial Tissues	Spandan Banerjee
2:40 PM-2:50 PM	Biospec/Health Sci/ PA/33	Application of freshly collected amniotic membrane and amniotic fluid dressing on chronic non-healing ulcer patients --- A hospital based experience from kolkata	Dr. Nirmal Polle
2:50 PM-3:00 PM	Biospec/Health Sci/ PA/34	Blood Mining for Early Screening of Autoimmune Diseases and Cancers	Dr. Prasenjit Kundu
3:00 PM-3:10 PM	Biospec/Health Sci/ PA/35	Deep eutectic solvent modified cellulose reinforced polylactic acid composite for tailored release of tetracycline	Sayantana Santra
3:10 PM-3:20 PM	Biospec/Health Sci/ PA/36	An in vivo study of enhanced hypoglycemic activity of the nanosized metformin	Moupiya Ghosh
3:20 PM-3:30 PM	Biospec/Health Sci/ PA/37	Catalytic role of Cu(II) on the oxidation of biologically active 3-mercapto-L-alanine in borate buffer	Dr. Ranjan Kumar Padhy
	Biospec/Health Sci/ PA/40		

3:30 PM-4:30 PM	Biospec/Health Sci/ PA/64	A Study on Potential Treatments in Mitigating Young Onset of Parkinson's Disease	Shaheen Sultana
4:30 PM-4:40 PM	Biospec/Health Sci/ PA/70	Estimating the fractal dimension of COVID Positive and Pneumonia Disease based on Box Counting Approach	SUJATA GHATAK
4:40 PM-4:50 PM	Biospec/Health Sci/ PA/72	Evaluation of functional and bioactive properties of deoiled flaxseed flour protein hydrolysates obtained by enzymatic hydrolysis	Saheli Ghosal
4:50 PM-5:00 PM	Biospec/Health Sci/ PA/73	Study on the composition of phytochemicals, and antioxidant activity, oxidative stability of some blended edible vegetable oils	Dr. SATARUPA GHOSH
5:10 PM-5:20 PM	Biospec/Health Sci/ PA/30	Processing Techniques of Kodo and Little Millets: A Perspective of Changes in Biochemical Properties and Health Outcomes	Navin Kumar

Poster SESSION 4: Implication of Biotechnology in Health Science**SESSION CHAIR: Dr. Saumyabrata Mazumder****SESSION TIME: 2:30 PM-5:00 PM (DAY 2: 15th Nov 2024)****Faculty Coordinator: Dr. Moupriya Nag****Venue: B1 LG 1.4****Link: <https://meet.google.com/bnf-smnj-gfv>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS Name
2:30 PM-2:40 PM	Biospec/Health Sci/ PO/24	Biobased dual responsive microgels for anti-cancer drug delivery	Moumita Shee
2:40 PM-2:50 PM	Biospec/Health Sci/ PO/25	Modelling the long non-coding RNA LUCAT1 and docking anticancer phytochemicals in the potential binding pockets for possible inhibition of de-differentiation of cancer cells	Asif Iqbal
2:50 PM-3:00 PM	Biospec/Health Sci/ PO/26	INTEGRATIVE BIOINFORMATICS APPROACHES TO ELUCIDATE THE MOLECULAR MECHANISM AND THERAPEUTIC TARGETS IN CHRONIC MYELOID LEUKEMIA.	Akash Pandey
3:00 PM-3:10 PM	Biospec/Health Sci/ PO/27	Evaluating the Efficacy of Green synthesised Zinc oxide Nanoparticles Against SHSY5Y Neuroblastoma cell line	Kanagavalli R
3:10 PM-3:20 PM	Biospec/Health Sci/ PO/28	CeO nano-priming to effectively mitigate the toxicity of carcinogenic Nio	SHIBANGI BOSE
3:20 PM-3:30 PM	Biospec/ Health Sci/ PO/ 29	CNA and its analogues: Multi-targeted Approach for Skeletal Muscle Atrophy	Dr. Prachi Gupta
3:30 PM-4:30 PM	Biospec/ Health Sci/ PO/ 30	Therapeutic potential of Mangiferin and Naringin in Letrozole-induced PCOS-rat model: A comprehensive study	Uma Dey

4:30 PM-4:40 PM	Biospec/ Health Sci/ PO/ 31	Trigonelline Ameliorates Dysregulated HPA Axis in Type 1 Diabetes.	JAYJEET MAJUMDAR
4:40 PM-4:50 PM	Biospec/ Health Sci/ PO/ 38	Comparative in vitro assessment of the behavior of newly synthesized magnetic nanoparticles with iron oxide core and different molecular shells on healthy and	D. Gherghela

Day 3: 16th Nov 2024

EVENT DETAILS	TIMING
REGISTRATION [Buddha - AUDITORIUM]	8:30AM onwards
BREAKFAST [AC CAFETERIA, B1 BUILDING]	9:00 AM-10:00 AM
WORKSHOP by iGEM [Board Room, B3 Building] Link: https://us06web.zoom.us/j/89104408700	10:00 AM -1:00 PM
Keynote 8: Dr. Asish Mukhopadhyay [Board Room, B3 Building] https://us06web.zoom.us/j/89104408700	1:00 AM-1:45 PM
LUNCH	1:45 PM-2:45 PM
VALEDICTORY [FICCI – AUDITORIUM, B3 Building] Link: https://us06web.zoom.us/j/89104408700	3:00 PM-4:00 PM

TIME	NAME OF THE EVENT
Link	https://us06web.zoom.us/j/83828954841
1:00 PM – 1:45 PM	Dr. Asish Mukhopadhyay Scientist G Division of Bacteriology National Institute of Cholera and Enteric Diseases –ICMR,India