

National Conference on Bioinformatics and Biological Research (NCBBR)

21-23 NOV, 2024

Organized by Department of Bioinformatics

Central University of South Bihar

PROGRAMME SCHEDULE (Tentative)

Day-1 - 21.11.24		
Thursday		
9:30-10:15 AM	Registration	
10:15-11:00 AM	Inaugural Session	
11:00 - 11:30 AM	HIGH TEA	
Theme: AI and Machine Learning		
11:30 - 12:15 PM	Invited Talk	Predictive and Generative AI in biomarker discovery and vaccine design Prof. Andrew M. Lynn School of Computational and Integrative Sciences Jawaharlal Nehru University, New Delhi
12:15-1:00 PM	Invited Talk	Use of AI in Health Sciences Dr. Dinesh Gupta Group leader, Translational Bioinformatics ICGEB, New Delhi
1:00- 2:00 PM	LUNCH at CUSB Guest House	
2:00- 2:45 PM	Invited Talk	Artificial Intelligence in Clinical Diagnosis Prof. Basant K. Tiwary Dept. of Bioinformatics Pondicherry University
2:45-4:30 PM	Oral & Poster Presentation	OP1 - OP11 & PP1 - PP13
4:30 PM	TEA	
Day-2 - 22.11.24		
Friday		
Theme: Computational Biology / Structural Biology and Simulations		
10:00-10:45 AM	Invited Talk	Thermodynamic and Structural Insight of the Water Displacement Method in Computational Drug Discovery Dr. Hridoy Ranjan Bairagya Associate Professor Maulana Abul Kalam Azad University of Technology West Bengal

10:45-11:30 AM	Invited Talk	Elucidation of conformational protein chemistry at Protein-protein interaction interface for therapeutics intervention Dr. Shailendra Asthana Principal Scientist-II BRIC-Translational Health Science and Technology Institute (THSTI) Faridabad, Haryana
11:30-12:00 noon	TEA	
Omics Technologies		
12:00-12:45	Invited Talk	Metagenomics: Opportunity and Challenges Dr. Gopal Krishna Joshi Professor and Head Department of Biotechnology HNB Garhwal University (A Central University) Srinagar Garhwal, Uttarakhand
12:45-2:00 PM	LUNCH at CUSB Guest House	
Infection, Immunity, and Health Science		
2:00- 2:45 PM	Invited Talk	Fernesol, a quorum sensor effectively includes the synthesis of Echinocandin B: a firstling antifungal Prof. Antresh Kumar Department of Biochemistry Central University of Haryana
2:45-4:30 PM	Oral and Poster Presentation	OP12 - OP21 & PP14 - PP26
4:30 PM	TEA	
Day-3 - 23.11.24		
Saturday		
Plant, Animal and Agriculture Sciences		
10:00-10:45 AM	Invited Talk	In silico and Wet lab Approaches in Stress Plant Biology Prof. Vinay Sharma Dean Research Director, Amity Institute of Biotechnology Amity University, Rajasthan
Environment, Ecology, and Evolution		
10:45-11:30 AM	Technical Session – VIII Invited Talk	Microplastic leachates and their ecotoxicological and human health impact Prof. S. Raisuddin Dean, School of Chemical & Life Sciences (SCLS); Director, Research & Development Cell; Director,

		Internal Quality Assurance Cell (IQAC); JAMIA HAMDARD (A Deemed to be University) New Delhi
11:30-12:00 noon	TEA	
12:00-12:45	Invited Talk	Multimodal breast cancer prognosis prediction using deep learning Dr. Sriparna Saha Associate Professor Dept. of Computer Science and Engineering IIT Patna
12:45- 2:00 PM	LUNCH at CUSB Guest House	
Molecular Biology and Biochemistry		
2:00- 2:45 PM	Invited Talk	HIV-1 Reverse Transcriptase and Drug Resistance Prof. Bechan Sharma Dean, Faculty of Science Department of Biochemistry University of Allahabad, Uttar Pradesh
2:45-3:30 PM	Invited Talk	Development of vaccines against kala-azar: Challenges and Possibilities Prof. Rakesh K Singh Department of Biochemistry Banaras Hindu University
3:30-4:00 PM	Tea	
4:00 - 4:30 PM	Valedictory Function	

Serial no of Oral & Poster Presentation

S.no.	Name	Title
Oral Presentation		
Op1	Dr. Arul Mugilan. S	A Python Module for Predicting Ligand-Protein Interactions Using Riboviria PDB Databases
Op2	Dr. Babita Rana	Biochemical And Probiotic Evaluation of Gaingti: A Traditional Alcoholic Beverage from Jaunsar-Bawar, Uttarakhand, India
Op3	Bindu Kumari	Prediction of Pharmacokinetics of Valeric Acid: Alternative Tool to Minimize Animal Studies
Op4	Dibyankar Barik	Benzoic Acid Incorporated Soy Protein Isolate Films: Material Characterization, Morphology, and In-silico studies
Op5	Durgarao Guttula	Mechanical Stability of Talin2 and Tanli1 R3 Domain: A Comparative Study Using Gromacs
Op6	Ekta Singh	Investigating the Expression and Solubility of S2 subunit of SARS-CoV-2 Spike Protein
Op7	Jyoti Kumari	Comparative Analysis of the Effect of Intermittent Fasting (If) in Longevity of Two Species of Drosophila: <i>D.Melanogaster</i> & <i>D. Ananassae</i>
Op8	Koushik Bardhan	DGEAR: An Ensemble Based Majority Voting Algorithm for Differential Gene Expression Analysis
Op9	Mohit Pareek	Dynamics and Allosteric Characterization of NNMT N-Terminal Underscore a Novel Avenue for Anti-Cancer Drug Discovery
Op10	Palak Singla	Unveiling the Atomistic Mechanisms of PKM2 Dimerization: The Role of PTMs and Mutations
Op11	Dr. Pawan Kumar Jayaswal	Harnessing Next-Generation Sequencing and Multiomics for Unraveling Disease Resistance Mechanisms in Plants
Op12	Poonam Singh	Investigating Sleep Challenges in Shift Workers of Paramilitary Forces
Op13	Prachi Bhargava	Computational Insights into Intrinsically Disordered Regions in Protein-Nucleic Acid Complexes
Op14	Pranabesh Mandal	Unveiling The Dynamics of The Nora Efflux Pump of <i>Staphylococcus aureus</i> : Deciphering Open and Closed States, and Mapping Ciprofloxacin Efflux Through Conventional and Metadynamics Simulations
Op15	Priyabrata Meher	Missense Mutations in Human Irf6 Disrupts the Protein-Protein Interface
Op16	Rahul Rana	Fish Assemblage structure of the Kosi River Bihar
Op17	Rajni Kumari	Molecular Docking and Dynamics Study of Allosamidin with Gh Family 18 Chitinase from Different Strains of Penicillium Oxalicum
Op18	S k Imran	Avifaunal diversity in the Central University of South Bihar, Gaya, India
Op19	Saima Sohail	Purification, Characterization, and Comparative Analysis of Casein from Cow and Buffalo Milk
Op20	Dr. Shyamali Das	Performance of tossa jute (<i>Corchorus olitorius</i> L.) under various weed management practices
Op21	Sonsy	Characterization and Cloning of Casein Genes of Buffalo in Milk Samples Collected from Local Population
Poster Presentation		
pp1	Afnaan Qureshi	Pantoprazole prevents ceftriaxone induced aggregation through modulation of serum albumin conformation
pp2	Alvea Tasneem	Phytochemical targeting of fatty acid elongase ELOVL6 and its role as potential biomarker for chronic myeloid leukemia

pp3	Anand Vikash	Identification Of Selective Inhibitors of Importin α/β For Modulating Cellular Import Process
pp4	Ashish Kumar Lamiyan	Assessment Of Insect Amps Targeting B-Ketoacyl-Acyl Carrier Protein Synthase III of Gram-Negative Bacteria: In Silico And In Vitro Evaluation
pp5	Awanish Kumar Singh	In Silico Identification of Phytochemical Inhibitors Targeting Phosphate Acetyltransferase of <i>Mycoplasma Genitalium</i>
pp6	Babli Kumari	Tools To Access Diversity in Nigella Sativa with Reference to Therapeutic Antioxidants
pp7	Deo Shankar Prasad	Mining and Characterization of Simple Sequence Repeats in the Syzygium Aromaticum Chloroplast Genome
pp8	Gyan Prakash Rai	Coevolution based insight on drug resistance in EGFR
pp9	Krishnendu Barik	STDdb-A Curated Database for Sexually Transmitted Disease
pp10	Mayank Kumar	RamPlot: A webserver to draw 2D, 3D and assorted Ramachandran steric maps
pp11	Mohamed Ihsan	Effect of Deltamethrin Binding on Aggregation and Activity of Human Lysozyme
pp12	Monika Kumari	Biochemical and Phylogenetic Relationships within Varieties of Amaranthus Tricolor
pp13	Niharika	Allele-Specific Expression in Non-Small Cell Lung Cancer: A Genome-Wide Investigation
pp14	Omprakash	Exploring Catalytic Efficiency of Cobalt Nanoparticles Synthesized from Diverse Plant Leaf Extracts for Methylene Blue Degradation
pp15	Pretty kumari	Trichoderma Isolated from Soil Rhizosphere of Azadirachta Indica are Effective Against Rhizoctonia Solani
pp16	Rahul Kumar	Homocysteine and Post-Stroke Cognitive Decline: Unraveling the Neurovascular Nexus
pp17	Roushan Kumar	Occupational Impact on Gut Microbial Ecosystems: Exploring the Microbiome of Coal Mine Workers in India
pp18	S M Shayez Karim	Identifying discriminative features of brain network for prediction of Alzheimer's disease using graph theory and machine learning
pp19	Saumya Surekha	A Study on Gene Expression of Vimentin in Breast Cancer
pp20	Saurav Kumar Mishra	Mutation Proof Peptide Vaccine Against Hiv: A Study Based on Subtype C
pp21	Shravya Shandilya	Characterization of Metacaspase genes of Brassica rapa
pp22	Shriti Shreya	Comparative Analysis of Anti-TB Drug Resistance Mechanism Mediated by Wild and Mutant type Rv1258c Efflux Pump in Mycobacterium tuberculosis
pp23	Smriti Shreya	Insilico analysis of Endoplasmic Reticulum Stress associated prognostic genes in Breast Cancer
pp24	Srishti Shriya	Exploring BRCA1 Neoantigens as Promising Targets for Breast Cancer
pp25	Sonu Kumar Singh	Effect of dissolved oxygen level in water of Adri River (Aurangabad, Bihar) on diversity of planktons
pp26	Soumya Sahoo	Identification of Biomarker in Ischemic Cardiomyopathy Using Differential Gene Expression Analysis and Machine Learning