

Alagappa University
Department of Bioinformatics
ICSBCADD'25
Dec 17th - 19th, 2025
PROGRAMME SCHEDULE

DAY I - 17th December, 2025	
VENUE: Sir. C. V. RAMAN, Conference Hall, 4th Floor Science Campus	
INAUGRAL SESSION	
09:30-11:00 am	Registration Invocation and VallalVazhthu Lighting of Kuthuvilakku Welcome Address Prof. J. JEYAKANTHAN The Convenor & Organizing Secretary - ICSBCADD'25
11:00-12:00 pm	Presidential Address Hony. Col. Sr. Prof. G. Ravi Vice-Chancellor Alagappa University Inaugural Address XXXXX XXXXX Special Address Dr. T. P. Singh All India Institute of Medical Science, New Delhi Keynote Address Dr. Chun-Jung Chen National Synchrotron Radiation Research Center (NSRRC), Taiwan Felicitation Address Dr. D. Velmurugan Member Secretary, TANSCHE, Chennai Vote of Thanks Prof. SANJEEV KUMAR SINGH Co-Convenor - ICSBCADD'25
12:00-12:20 pm	HIGH TEA
PLENARY SESSION 17th December, 2025 (1st Day)	
Session-I	
Chairperson: Dr. D. Velmurugan	Co-Chairperson: Dr. J. Jeyakanthan
12:30-01:00 pm	Hydrolysis by Multiple Serine Proteases at the Evolutionarily Designed Single Cleavage Site in the Bilobal Lactoferrin to Generate a Stable C-Lobe with a Prolonged Antibacterial Action Dr. T. P. Singh All India Institute of Medical Sciences, New Delhi
01:00-02:00 pm	LUNCH & Poster Session I
Session-II	
Chairperson: Dr. T. P. Singh	Co-Chairperson: Dr. Sanjeev Kumar Singh
02:00-02:20 pm	Neuronal Diseases, Neurotrophins , Natural Products and Bioinformatics Dr. D. Velmurugan Member Secretary, TANSCHE, Chennai

02:20-02:40 pm	Voyage through Omics of Medicinal Plants Dr. R. Sowdhamini National Centre for Biological Sciences (NCBS), Bangalore
02:40-03:00 pm	Optimizing Protein Purification Strategies: Insights from LLM-Driven Mining of PDB Literature Dr. J. Sivaraman National University of Singapore, Singapore
Session-III	
Chairperson: Dr. J. Sivaraman	Co-Chairperson: Dr. RM. Vidhyavathi
03:00-03:20 pm	Structural Biology of Viruses and Capsid Assembly Dr. Chun-Jung Chen National Synchrotron Radiation Research Center (NSRRC), Taiwan
03:20-03:40 pm	Exploring Kinase-Substrate Specific Interaction as a Target for Drug Design Strategy in Cancer Dr. Suresh Kumar Rayala IIT-Madras, Chennai
03:40-04:00 pm	Mechanism of RNA capping of the SARS-CoV-2 genome Dr. K. Saikrishnan Indian Institute of Science Education and Research (IISER), Pune
04:00-04:20 pm	HIGH TEA
Session-IV	
Chairperson: Dr. Chun-Jung Chen	Co-Chairperson: Dr. J. Joseph Sahayarayan
04:20-04:40 pm	Drug-like Property Prediction for Small Molecules: Comparing the Performance of Physics-based, Data-driven, and Quantum-inspired Machine Learning Models Dr. N. Arul Murugan Indraprastha Institute of Information Technology, New Delhi
04:40-05:00 pm	Structure and Functional Analysis of Type 3 Secretion System Pilus Proteins of Plant Pathogenic Bacteria Dr. P. Karthe University of Madras, Chennai
05:00-05:30 pm	InstaDock-v2: an Automated Molecular Docking Tool with Integrated ADMET Prediction and Analysis Dr. Md. Imtiyaz Hassan Jamia Millia Islamia University, New Delhi
Session-V	
Chairperson Dr. P. Karthe	Co-Chairperson: Dr. P. Boomi
05:30-05:50 pm	Genotyping-Phenotypic Correlation of <i>S. Typhi</i> Isolates Provide Insights for the Design of Novel Anti Microbial Agents Dr. Punit Kaur AIIMS, New Delhi
05:50-06:10 pm	Structural and Functional Studies of South African HIV-1 Subtype C Proteases: Impact on Protein Dynamics, Stability, and Drug Binding to the Wild Type and Mutants Dr Ramesh Pandian University of the Witwatersrand, South Africa
06:10-06:30 pm	EstS1 Esterase: A Versatile Biocatalyst for Phthalate and PET Plastic Degradation Dr. Pravindra Kumar Indian Institute of Technology-Roorkee

06:30-06:50 pm	Design of a Multiepitope Vaccine for the Treatment of Periodontal Disease Dr. Narayanan Ramasubbu Rutgers School of Dental Medicine, USA
07:00-08:00 pm	Cultural Programme
PLENARY SESSION 18th December, 2025 (2nd Day)	
08:30-09:00 am	Registration
09:00-10:30 am	Oral Presentation
Session-I	
Chairperson: Dr. K. Muruga Poopathi Raja Co-Chairperson: Dr. RM. Vidhyavathi	
10:30-10:50 am	Invasive versus Non-Invasive Medical Procedures: Extracellular Vesicles - Possible Role in Drug Targeting in Cancer Therapy Dr. Dwijendra K. Gupta Allahabad University, Allahabad
10:50-11:10 am	Exploring the Human Proteins Targeted by HIV and MTB: The Differences and Commonalities in the Strategies Employed by these Pathogens to Manipulate Host Cellular Functions Dr. H.A. Nagarajaram University of Hyderabad, Hyderabad
11:10-11:30am	Integrative Structural Bioinformatics and Computational Design of Novel Antifilarial Therapeutics Targeting <i>Wuchereria bancrofti</i> . Dr. Saraboji Kadhirvel Central University of Punjab, India
11:30-11:50 am	HIGH TEA
Session-II	
Chairperson: Dr. M. Michael Gromiha Co-Chairperson: Dr. J. Joseph Sahayaray	
11:50-12:10 pm	Deciphering the Significance of Protein Sequence Conservation with 3D Structure Dr. Akio Ebihara Gifu University, Japan
12:10-12:30 pm	<i>In-silico</i> Approaches to Understand the Mechanisms of Antibiotic Resistance in ESKAPE Pathogens Dr. A. Anand Vellore Institute of Technology (VIT), Vellore
12:30-12:50 pm	Mechanistic Elucidation of PolyQ Peptides Folding and Aggregation in Spinocerebellar Ataxias Dr. K. Muruga Poopathi Raja Central University of Kerala, Kerala
12:50-01:10 pm	Comparative Studies of Microbial Populations (Bacteria and Fungus) in Cultivated and Uncultivated Agricultural Field in Black Bush Polder, Region 6, Guyana Dr. Gomathinayagam Subramanian University of Guyana, South America
01:10-02:10 pm	LUNCH
Session-III	
Chairperson: Dr. A. Anand Co-Chairperson: Dr. P. Boomi	
02:30-02:50 pm	Development of Databases and Computational Tools for Understanding and Predicting the Binding Affinities of Protein Complexes Dr. M. Michael Gromiha Indian Institute of Technology- Madras, Chennai

02:50-03:10 pm	Structural Insights in Inflammatory Bowel Disease(IBD) Dr. N. Jeyakumar Bharathiar University, Coimbatore
03:10-03:30 pm	Transcriptomic Profiling and Biomarker Discovery in Pre-eclampsia Using WGCNA and LASSO Approach Dr. Mohana Priya A Vellore Institute of Technology (VIT), Vellore
03:30-03:50 pm	Structural Bioinformatics and Genomic Profiling of Advanced Cancer: Enabling Translational Research Dr. K. Premkumar Bharathidasan University, Trichy
04:00-05:00 pm	Poster Session II
05:00-05:30 pm	HIGH TEA
	WORKSHOP SESSION
05:30-06:30 pm	Digital Transformation of Pharma R&D: How AI/ML, Chemical-Space Docking, FEP, and Emerging <i>In silico</i> Methods are Improving Success Rates in Drug Discovery Dr. R. Raghu Molecular Solutions, Bangalore
06:30-07:30 pm	Computer Aided Formulation Design - A Paradigm Shift in Pharmaceutical Formulation Development Dr. Sudharsan Pandiyan Schrodinger, USA
19th December, 2025 (3rd Day)	
	WORKSHOP SESSION
08:30-09:00 am	Registration
09:00-11:00 am	Presentation and Hands-on Practice
11:00-11:15 am	HIGH TEA
11:15-01:00 pm	Hands-on Practice
01:00-02:00 pm	LUNCH
02:00-05:30 pm	Hands-on Practice
05:45-07:45 pm	Valedictory Function/ Certificate Distribution for Oral & Poster Presentation/ Vote of Thanks