

International Conference cum Workshop
“Global Summit on Innovative Drug Design, Discovery, and Translational Research”,
October 29-31, 2025
 organized by
Department of Bioinformatics, Pondicherry University
 in collaboration with
Bioinformatics and Drug Discovery Society (BIDDS).

Program Schedule 29 th October 2025- Day 1 (Convention Cum Cultural Hall, Pondicherry University) Inauguration, Invited lectures, Oral & Poster presentations	
Time	Event
7:30 am – 8:30 am	Breakfast
8:30 am – 9:30 am	Registration
9:30 am – 10:30 am	Inauguration ceremony
	Chairperson: Prof. Sanjeev Kumar Singh
10.30 am – 11.00 am	BIDDS Lifetime Achievement Award Lecture Prof. P. Prakash Babu (Vice-Chancellor, Pondicherry University, Puducherry) <i>“The Blood–Brain Barrier: Guardian of the Brain in Health and Disease”</i>
11:00 am – 11:30 am	High Tea Break
	Chairperson: Prof. A. Dinakara Rao
11:30 am – 12:00 pm	Inaugural Lecture Dr. Dinakar M. Salunke (Arturo Falaschi Emeritus Scientist, Former Director, ICGEB, New Delhi) <i>“Antibody Promiscuity and Development of Target-Specific Therapeutic Antibodies”</i>
12:00 pm – 12:30 pm	Key Note Address - 1 Prof. Narayanan Ramasubbu, (Rutgers School of Dental Medicine, New Jersey, USA) <i>“Is it possible to develop a multiepitope vaccine for the treatment of periodontal disease? A multifaceted approach.”</i>

12:30 pm – 01:00 pm	Invited Lecture -1 Prof. G. Narahari Sastry (Professor, IIT Hyderabad, Hyderabad) <i>“Gen-AI approaches for development and refinement of CADD (computer-aided drug design) software”</i>	
01:00 pm – 2:00 pm	Lunch Break	
	Chairperson: Prof. Basant Kumar Tiwary	Chairperson: Dr. A. Murali

2:00 pm – 2:30 pm	Key Note Address - 2 Dr. Hsing-Pang Hsieh (Director & Distinguished Investigator, National Health Research Institutes, TAIWAN) <i>“From Bench to Clinic: Novel HER2/EGFR Kinase Inhibitor DBPR112”</i>	Oral Presentation
2:30 pm – 3:00 pm	Invited Lecture -2 Prof. Suresh Rayala (IIT Madras, Chennai) <i>“Targeting P21 activated Kinase 1 (Pak1) in Pancreatic Cancer”</i>	
3:00 pm – 3:20 pm	Invited Lecture – 3 Dr. D. Gayathri (University of Madras, Chennai) <i>“Identification of natural bioactive compounds targeting the futasine pathway in Helicobacter pylori”</i>	
3:20 pm – 3:40 pm	Invited Lecture - 4 Dr. Shashanka Prasad (JSS AHER, Mysuru) <i>“Artificial Intelligence-driven Drug Designing (AIDD)”</i>	
3:40 pm – 4:00 pm	Tea Break	
	Chairperson: Prof. R. Krishna	Chairperson: Dr. A. Murali
4:00 pm – 4:20 pm	Invited Lecture - 5 Dr. Prakash Saudagar (National Institute of Technology. Warangal) <i>“Unveiling Therapeutic Targets in Leishmania: Insights into Redox metabolism”</i>	

4:20 pm – 4:40 pm	Invited Lecture - 6 Prof. Sanjeev Kumar Singh (Alagappa University, Karaikudi) <i>“Structural Bioinformatics and CADD Studies on potential viral targets”</i>	Oral Presentation
4:40 pm – 5:00 pm	Invited Lecture - 7 Prof. N Jeyakumar (Bharathiar University, Coimbatore) <i>“Antimicrobial Peptides against Drug-Resistant Pathogens”</i>	
5:30 pm - 7:30 pm	BIDDS General Body Meeting & Round Table Discussions	Chairperson: Prof. Archana Pan
		Poster Presentation
7:30 pm onwards	Dinner	

Program Schedule 30 th October 2025 - Day 2 (Seminar Hall, Department of Bioinformatics) Invited lectures and Oral presentations	
Time	Event
8:00 am – 9:00 am	Breakfast
	Chairperson: Prof. P.T.V. Lakshmi
9:30 am – 10:00 am	Invited Lecture – 8 (online) Prof. Siddappa Byrareddy (Nebraska Medical Center, Nebraska, USA) <i>“Unraveling the Molecular Basis of Long-COVID using hamster models of SARS-CoV-2”</i>
10:00 am – 10:30 am	Invited Lecture – 9 (online) Dr. G. P. Nagaraju (University of Alabama at Birmingham Hospital, Birmingham, USA) <i>“Enhancing chemotherapy efficacy in pancreatic ductal adenocarcinoma with paricalcitol and hydroxychloroquine”</i>
10:30 am – 11:00 am	Invited Lecture – 10 Dr. R. Sowdhamini (NCBS, Bangalore) <i>“Computational Modelling and Search for Inhibitors”</i>

11:00 am – 11:30 am	Invited Lecture – 11 Prof. K. Sekar (Indian Institute of Science, Bangalore) <i>“A data mining study: Sequence motifs in genome sequences and invariant water molecules in three-dimensional protein structures”</i>	
11:30 am - 12:00 pm	Tea Break / Discussion	
	Chairperson: Prof. M. Suresh Kumar	
12:00 pm -12:20 pm	Invited Lecture – 12 Dr. Anwita Mudiraj (University of Hyderabad, Hyderabad) <i>“Synergy in Synthesis: Transforming Natural Products into Drugs”</i>	
12:20 pm - 12:40 pm	Invited Lecture – 13 Dr. K.Gugan (University of Madras, Chennai) <i>“Molecular Insights into LolDF (ABC transporter) assembly of Acinetobacter baumannii to design novel narrow spectrum inhibitors”</i>	
12:40 pm - 1:00 pm	Invited Lecture – 14 Dr. K. Gunasekaran (University of Madras, Chennai) <i>“Understanding fine structural and functional aspects through complement tools.”</i>	
1:00 pm - 2:00 pm	Lunch Break	
	Chairperson: Prof. Archana Pan	Chairperson: Dr. A. Murali
2:00 pm - 2:30 pm	Key Note Address – 3 Prof. Tej P. Singh (All India Institute of Medical Sciences, New Delhi) <i>“Empowering the innate immunity proteins to fight fiercely against the invading microbes”</i>	Oral Presentation
2:30 pm - 3:00 pm	Invited Lecture – 15 Prof. Sonika Bhatnagar (Netaji Subhas University of Technology, New Delhi) <i>“Grb2-FAK interaction as a drug target for cancer and proliferative heart disease”</i>	
3:00 pm - 3:30 pm	Invited Lecture – 16 Prof. Hitesh D. Patel (Gujarat University) <i>“Collaborative Research - The Key to Success”</i>	

	Chairperson: Prof. R. Amutha	
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3:30 pm - 4:00 pm	Invited Lecture - 17 Dr. Michael Gromiha (IIT-M, Chennai) <i>“Machine learning and AI based methods for identifying potential inhibitors and disease causing mutations in proteins: applications to drug design”</i>	
4:00 pm - 4:30 pm	Invited Lecture - 18 Dr. Rajnish Kumar (Indian Institute of Technology, BHU, Varanasi) <i>“AI-Enabled Discovery of Novel Theranostics for Alzheimer’s Disease”</i>	
4:30 pm - 5:00 pm	Invited Lecture – 19 Dr. Vinod Devaraji (Schrodinger) <i>Accelerating Drug Discovery through AI-Integrated Physics-Based Modeling”</i>	
5:00 pm	Tea Break	
5.15 pm	City trip	
8:00 pm onwards	Dinner	

31 st October 2025 - Day 3 (Seminar Hall, Department of Bioinformatics) Keynote lecture, Workshop and Valedictory	
Time	Event
8:00 am – 9:00 am	Breakfast
	Chairperson: Dr. K.M.Kumar
9:30 am – 1:00 pm	➤ Hands-on workshop on Computer-aided drug design using the MolSoft Tool ➤ Small molecule docking, Virtual Library screening & 3D Ligand Editor ➤ Training by: Dr. Shamshair Singh Sardar, Mr. Aditya Mishra and Mr. Surojit Sadhu. Advent Informatics, Pune
1:00 pm – 2:00 pm	Lunch Break
	Chairperson: Dr. B. Syed Ibrahim
2:00 pm - 2:20 pm	Invited Lecture – 20 Dr. D. Velmurugan (TANSCHÉ, Chennai) <i>“Drug Discovery using Natural Products”</i>

2:20 pm – 2.40 pm	Invited Lecture - 21 Prof. Anand Anbarasu (Vellore Institute of Technology, Vellore) <i>“In-silico approaches for Innovative Drug Design, Discovery, and Translational Research - Pros & Cons”</i>
2.40 pm – 3:00 pm	Invited Lecture - 22 Dr. Sangita Venkataraman (Anna University, Chennai) <i>“Dual Insights into Newcastle Disease Virus Pathogenesis: Transcriptomic Responses and V Protein–Mediated Immune Evasion”</i>
3.00 pm – 3:20 pm	Invited Lecture - 23 Dr. Priyanka Sen (Vellore Institute of Technology, Vellore) <i>“An immobilised benzothiazole dye-based Point-of-care system to detect amyloids”</i>
	Chairperson: Dr. A. Murali
3:20 pm - 3.50 pm	Invited Lecture - 24 Dr. Raghu. R (Molecular Solutions Software Pvt. Ltd.) <i>“Digital Transformation in Pharma R&D: How AI/ML and Chemical-Space Docking XFEP are transforming the Drug Discovery”</i>
3.50 pm – 4.10 pm	Invited Lecture – 25 (Online) Dr. Sanjit Kumar (Guru Ghasidas Vishwavidyalaya, A Central University, Bilaspur) <i>“Biophysical and Structural studies of Adenosine Deaminase (ADA) against Mycobacterium TB (MtbADA)”</i>
4.10 pm – 4.30 pm	Invited Lecture – 26 (Online) Dr. Arindam Talukdar (CSIR - Indian Institute of Chemical Biology, Kolkata) <i>“A Molecular Switch for TLR7 Signaling: Discovery of Clinically Relevant Dual TLR7/9 Antagonists for Psoriasis Therapy”</i>
4:30 pm - 4:50 pm	Invited Lecture – 27 (Online) Prof. K. Muruga Poopathi Raj (Central University of Kerala, Kasaragod) <i>“Decoding the Molecular Grammar of PolyQ Peptides Folding and Aggregation in Spinocerebellar Ataxias”</i>
5.00 pm – 6.00 pm	Valedictory Function & Award Ceremony
6.00 pm	Tea Break