

**2nd International Conference on
Translational Research in Biomedical Sciences (TRIBS 2.0)**

February, 19-21, 2025

Venue: Tmt. Soundrabai Auditorium, Sathyabama Centre for Advanced Studies (III Floor)
Sathyabama Institute of Science and Technology, India

Poster Presentation - Session I

Venue : Seminar Hall, Centre for Drug Discovery and Development
Sathyabama Research Park (III Floor)

Date : 19.02.2025

Time : 2.00 PM – 5.00 PM

Chair persons: Dr. S. Balaji,

Technical Officer

ICMR-National Institute for Research in Tuberculosis (NIRT), Chennai, India

Dr. Amudhan,

Theni Govt Medical College, Tamil Nadu, India

Dr. Sam Ebenezer,

Assistant Professor (Research), CDDD-Sathyabama, India

S. No	Poster Number	Title of the Abstract	Authors and Affiliation
1.	S1-PP1	Harnessing MicroRNAs for targeted regulation of cell proliferation in biomanufacturing	Hasmeet Kaur Manav Rachna International Institute of Research and Studies
2.	S1-PP2	Novel isolation, structural characterization, and therapeutic assessment of mannose- targeted chitosan nanoparticles encapsulating Piperine for drug-resistant tuberculosis therapy	Abdullah Mohammed Ayedh Al Adhrai Sathyabama Institute of Science and Technology
3.	S1-PP3	Codon optimization for enhanced expression of HIV-1 transcripts in CRISPR- Cas13-based therapeutics	Pavithra N Bharathiar University
4.	S1-PP4	Screening of marine animal toxin-derived peptides and its biological effects for the suppression of inflammation in LPS-induced fibroblast cells	Akshad Balde SRM Institute of Science and Technology
5.	S1-PP5	Effects of a marine-derived oligopeptide on suppression of inflammation in an inflammatory model	Irine Kevina, Ragul Sakthivel, Aashritha Kandala, Kristen Cyril, Sneha Sreeram SRM Institute of Science and Technology
6.	S1-PP6	Exploring LNAA-enriched protein as a potential PKU supplement: Expression, cytotoxicity in mammalian cells, and insights from Pah Enu2 Mice	Mithuna K M CSIR- CFTRI
7.	S1-PP7	Anticancer potential of <i>Tinospora Cordifolia</i> (Wild) Miers by <i>In Silico</i> ADMET analysis	D. Varshini Saveetha Institute of Medical And Technical Science
8.	S1-PP8	Protacs In neurodegeneration: unlocking therapeutic potential via protein degradation	Ms. Shirin.V.

			Saveetha Institute of Medical And Technical Science
9.	S1-PP9	Analysis Of Protein Ligand Interaction: PYRX docking of g-protein coupled receptor 1 protein causing ovarian cancer	Gollapudi Maadhvi Saveetha Institute of Medical And Technical Science
10.	S1-PP10	Bioactive components loaded biopolymeric materials for managing dental caries	Akshara S Chettinad Academy of Research and Education
11.	S1-PP11	Structure-based docking and molecular dynamics simulation of small molecules targeting DHCR7 to treat Smith-Lemli-Opitz Syndrome	Jeevarathanam R Saveetha Institute of Medical And Technical Science
12.	S1-PP12	Investigation of computational method for the treatment of Alzheimer's by targeting β -amyloid through comparative docking approach	Ajay Sekaran. A Saveetha Institute of Medical and Technical Sciences
13.	S1-PP13	Deciphering HTT protein mutations for structural and functional insights into Huntington's disease	Dasari Akshitha Saveetha Institute of Medical And Technical Sciences
14.	S1-PP14	Computational Analysis of Structural, Functional, and Evolutionary Variations in Human Peroxiredoxin Variants Using Molecular Modelling and Docking Approaches	Rajasri A Jethasree Sravya Sravani Kandula Saveetha Institute of Medical And Technical Sciences
15.	S1-PP15	Unraveling the Secondary Metabolite Arsenal of <i>Bdellovibrio</i> : Insights from Comparative BGC Analysis	Steven Malla Saveetha Institute of Medical and Technical Sciences
16.	S1-PP16	Potential Therapeutic Role of Phenolic Antioxidants in Targeting Alpha-Synuclein Aggregation in Neurodegeneration with Brain Iron Accumulation	Konukuru Hemasree Jahnvi Damodara Saveetha Institute of Medical And Technical Science
17.	S1-PP17	Molecular Docking Study of Curcumin Interaction with Collagen and Keratin: Insights into Anti-Aging Protein-Ligand Binding Using Docking and STRING Database Analysis	Ms. Jalapati Nandini Ms Cheerla Praneetha Saveetha Institute of Medical And Technical Science
18.	S1-PP18	Development of Anti-Freezing Protein-Enhanced Biofertilizers for Improved Crop Yields and Frost Protection	Ms.E.G.Abhinaya Ms.Sanna reddy Poojitha Ms.Edapa Gnyaana Abhinaya Saveetha Institute of Medical And Technical Science
19.	S1-PP19	Unravelling cardiovascular disease in Systemic Lupus Erythematosus (SLE) : Exploring the Influence of autoantibodies and immunosuppressants	Ms Rachana Kamath Kasturba Medical College, MAHE
20.	S1-PP20	Folate-decorated, albumin-conjugated BNNTs for targeted Paclitaxel delivery in A549 lung cancer: Antimicrobial activity, hemocompatibility, and cytotoxicity evaluation	Shanmuga priya R Anna University
21.	S1-PP21	Investigating The Role of M6A Reader - YTHDC1 In Renal Cellular Pathophysiology	Aishwarya Ganesan Bharathidasan University
22.	S1-PP22	Facile and Bioinspired Gelatin Hydrogel for Enhanced Antimicrobial and Wound Healing Applications.	Ms. Gurupurnima ST Shreshta Nair Bharath Raj J R Hindustan Institute of Technology and Science , Chennai

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Poster Presentation - Session II

Venue : Seminar Hall, Centre for Drug Discovery and Development
Sathyabama Centre for Advanced Studies (I Floor)

Date : 20.02.2025

Time : 10.00 AM – 1.00 PM

Chair persons: Dr. A. Suresh,

Scientist,

Meenakshi Academy of Higher Education and Research (MAHER), Kanchipuram, India

Dr. T. Rajasekar,

Assistant Professor (Research),

Centre for Drug Discovery and Development,

Sathyabama Institute of Science and Technology, India

S. No	Poser Number	Title Of The Abstract	Authors And Affiliation
1.	S2 – PP1	Enzymatic extraction and purification of marine fish-derived bioactive peptide and its anti-inflammatory effects through suppression of cytokines	Thilothamai Jegani K SRM Institute Of Science And Technology, Chennai
2.	S2 – PP2	Systematic approach to biofilm formation and its inhibition on menstrual cups using phyto-extracts.	Sayli Kulkarni and Aaditi. Dalvi Priyadarshini College of Engineering
3.	S2 – PP3	Synthesis, spectral characterization and antibacterial activity of some Benzyl derivatives - in silico molecular docking and ADMET Studies	Satheeshkumar N Annamalai University
4.	S2 – PP4	Isolation of soil-borne fungi as biological agents and their inhibitory study against <i>Phytophthora</i> species.	Ms. Bhargavi R. Ambatkar Ms. Apurva Dohale Priyadarshini College of Engineering
5.	S2 – PP5	Human Genome Resources Updated Database - A Future Key on Aging Research	Muthuselvi Gopal Sathyabama Institute of science and technology
6.	S2 – PP6	Deciphering drug-target interactions through multi omics convergence: A Machine Learning framework	B. Reshini Priya Saveetha Institute of Medical and Technical Science
7.	S2 – PP7	Characterization of surface morphology and pocket analysis of Verona Integrin-Encoded Metallo-beta-lactamase(VIM) protein for drug analysis	Ms. Deveena Saveetha Institute of Medical and Technical Science
8.	S2 – PP8	Structural analysis of Klebsiella pneumoniae Carbapenemase (kpc) protein for drug analysis	Ms. Racharla Mythili Saveetha Institute of Medical and Technical Science
9.	S2 – PP9	Harnessing virtual screening for lung cancer drug discovery: A natural product-based approach.	Nithishkumaran. M Saveetha Institute of Medical and Technical Science

10.	S2 – PP10	Machine Learning-Based Identification of Binding Pockets in Multidrug Efflux Pumps for Ligand Targeting	Jishitha Kondapalli Saveetha Institute of Medical and Technical Science
11.	S2 – PP11	Computational drug discovery for zoonotic diseases using molecular docking approaches for identifying novel therapeutics	S. Praveen Kumar Saveetha Institute of Medical and Technical Science
12.	S2 – PP12	Creation of medications using molecular docking to target Alzheimer's	R. Alekhya Saveetha Institute of Medical and Technical Sciences
13.	S2 – PP13	Unravelling key molecular drivers of glioblastoma through transcriptomic and network analysis	Vishal Sai B.J Saveetha Institute of Medical and Technical Sciences
14.	S2 – PP14	Virtual and in vitro screening of spiroazacyclic compounds for novel TMPRSS2 inhibitors as SARS-CoV-2 therapeutic entry-blockers.	Moorthi Radhakrishnan Central University of Tamil Nadu
15.	S2 – PP15	The biosynthetic capacity of <i>Myxococcus</i> : A Comprehensive BGC Analysis	Yaswitha.G Saveetha Institute of Medical and Technical Science
16.	S2 – PP16	Comparative genomic and biosynthetic gene cluster analysis of <i>Lysobacter</i> species for antimicrobial potential	Poojitha. R and K. Lakshmi Manasa Saveetha Institute of Medical and Technical Sciences
17.	S2 – PP17	Machine learning enhanced scrutiny of Extended spectrum beta lactamases (CTX-M) for Drug development	T. Vyshno babu Saveetha Institute of Medical and Technical Sciences
18.	S2 – PP18	Structure-based approach of binding pocket analysis in crystal structure of New Delhi Metallo-beta-lactamase (NDM-1) for ligand screening	P. Thanooj kumar reddy Saveetha Institute of Medical and Technical Sciences
19.	S2 – PP19	Yet to be decided and submitted along with abstract	V. Sri Sai Amruthaa E. Rethika raj Sri Ramachandra Institute of Higher Education and Research
20.	S2 – PP20	Epitope-based vaccine design against Zika virus	Shunmughi K V S Varshini Kamaraj College of Engineering & Technology
21.	S2 – PP21	AI- Based DNA Repair Efficiency Predictor for Recombinant DNA Technology	Sahana. F Saveetha Institute of Medical and Technical Sciences

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Poster Presentation - Session III

Venue : Seminar Hall, Centre for Drug Discovery and Development
Sathyabama Centre for Advanced Studies (I Floor)

Date : 20.02.2025

Time : 2.00 PM – 5.00 PM

Chair persons: Dr. Amit,

Associate Professor (Research),
Centre for Climate Change Studies,
Sathyabama Institute of Science and Technology, India

Dr. Prakash,

Associate Professor (Research),
Centre for Climate Change Studies, Sathyabama, Chennai, India

Dr. S. Vignesh, ICMR- Post Doctoral Researcher, CDDD-Sathyabama, Chennai, India

S. No	Poster Number	Title Of The Abstract	Authors And Affiliation
1.	S3-PP1	In Silico analysis of animal venom-derived matrix metalloproteinase-9 modulators and their therapeutic Implications	Ansumaan Sharma SRM Institute Of Science And Technology
2.	S3-PP2	Pharmacological therapy :Selection and designing of lead molecules using molecular docking approach for the cure of cystic fibrosis disease	Keerthana Sri.S Jeevitha.P Saveetha Institute of Medical and Technical Sciences
3.	S3-PP3	In-Silico Structural and Functional Annotation of Hypothetical Proteins from Nocardia asteroides NCTC11293: A Computational Approach for Novel Drug Target Identification and Therapeutic Development	Maharaja M. S Alagappa University
4.	S3-PP4	An efficient framework model for Liver tumor detection and segmentation using Novel Recurrent Neural Network in comparison with Support Vector Machine	Kethineni Revathi Saveetha Institute of Medical and Technical Sciences
5.	S3-PP5	Structural insights and Binding pocket analysis of OXA-23 β -lactamase: A computational approach for Inhibitor design	K. Deepak Saveetha Institute of Medical and Technical Sciences
6.	S3-PP6	Exploring the complexities of human physiology	Bharath P Saveetha Institute of Medical and Technical Sciences
7.	S3-PP7	<i>In silico</i> screening of nucleocapsid protein with different ligands for the treatment of Measles	Akshaya.L Saveetha Institute of Medical and Technical Sciences
8.	S3-PP8	Functionalized polymeric nanoparticle as a drug delivery system for anticancer drug	Harini A Vellore Institute of Technology Chennai Campus
9.	S3-PP9	Antibacterial potential of Eugenol against methicillin-resistant <i>Staphylococcus aureus</i>	Adithya Shree G Jinu Harini R C

			PSGR Krishnammal College for Women
10.	S3-PP10	Fabrication and evaluation of herbal nanofillers-based hydrogel for wound dressing application	Advait G Prabhu Hindustan Institute of Technology and Science
11.	S3-PP11	Comparative Molecular Docking on polypeptide P1234 factor with novel ligands for chikungunya	Otra.Shamitha Saveetha Institute of Medical and Technical Sciences
12.	S3-PP12	Computational study and molecular docking of ANTXR2 protein involved in anthrax and identification of potential ligand interactions for therapeutic applications.	Abaya.S Saveetha Institute of Medical and Technical Sciences
13.	S3-PP13	Computational study and molecular docking of proto-oncogene protein involved in cervical cancer and identification of potential ligand interactions for therapeutic applications.	Kanishka.S Saveetha Institute of Medical and Technical Sciences
14.	S3-PP14	An effective approach to detect chronic kidney disease using fine tree algorithm and boosted tree algorithm using MATLAB	Celine Mary Saveetha Institute of Medical and Technical Sciences
15.	S3-PP15	Breaking The Clot: Probiotic-Engineered Yeast To Revolutionize APS Treatment	Susan Jesse Agnes. M Harshavardhini Murugesan Sri Ramachandra Institute of Higher Education and Research
16.	S3-PP16	Bridging evolution and structure homology modelling in phylogenetic studies of moonlight protein	Raaga Hasini Saveetha Institute of Medical and Technical Sciences
17.	S3 – PP17	Evaluation of actinobacteria From Kashmir Region for anti-mycobacterial activities	R. Hari Baskar and Akash Sathyabama Institute of Science and Technology
18.	S3-PP18	Comparison of extraction methods for the isolation of isoflavonoids from soybean-characterization and chemometric analysis	Rukmani kanchana Ramanathan Tanushree Kannayiram Jayaprithiksha ravi swarnalatha Hindustan Institute of Technology and Science, Chennai.
19.	S3-PP19	Development of CRISPR-Cas13 Molecular Diagnostic Tool for Detecting Mycobacterium tuberculosis	P.Venkatesan National Institute for Research in tuberculosis
20.	S3-PP20	Biosurfactants: Sustainable Solutions for Environmental and Agricultural Applications	Eswarnath Sathyabama Institute of Science and Technology
21.	S3-PP1	Adaptations of Cryosphere Microbes: Functional Roles of Siderophores, Antifreeze Proteins, and Cold-Active Enzymes in Extreme Environments	Sai Mahesh Kumar. S Sathyabama Institute of Science and Technology