PROFILE

Dr.J.JEYAKANTHAN
Senior Professor and Head
Department of Bioinformatics
Alagappa University
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Dr. J. JEYAKANTHAN Ph.D, D.Sc.
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TEACHING AND RESEARCH EXPERIENCE

Position	Institute/University	Period
Senior Professor and Head	Department of Bioinformatics	March 2020 - Till date*
Professor and Head	Department of Bioinformatics	March 2010 - March 2020
Research Scientist	National Synchrotron Radiation Research Centre	May 2007 - March 2010
Research Associate	RIKEN Harima Institute, SPring-8, Japan	June 2003 - May 2007
PDF	Indian Institute of Science, Bangalore	January 2000 – May 2003

ACADEMIC COMPETENCE

Year of Passing	Degree/Diploma	University/Institution
2022	D.Sc (Bioinformatics)	Alagappa University
2000	Ph.D. (Crystallography and Biophysics)	University of Madras
1999	P.G.D.C.A	MIT, Anna University
1995	M. Phil. (Physics)	M. K. University
1993	M.Sc. (Physics)	M. K. University
1991	B.Ed.	University of Madras
1989	B.Sc (Physics)	M. K. University

RESPONSIBILITIES - AUTHORITY

2024 - *	Member	Syndicate of Alagappa University (Nominated by Hon'ble Governor of Tamil Nadu)
2016 - 19	Member	Syndicate of Alagappa University (Nominated by Hon'ble Governor of Tamil Nadu)
2010 - *	Member	Senate of Alagappa University

ACADEMIC RESPONSIBILITIES - ALAGAPPA UNIVERSITY

2023 - *	Dean, Faculty of Science	All Science Departments, Alagappa University
2010 - *	Head of the Department	Department of Bioinformatics, Alagappa University
2019 (Mar – Nov)	Head of the Department	Department of Botany, Alagappa University
2015 - *	Chairperson	School of Biological Sciences, Alagappa University
2010 - *	Chairman	Board of Studies of Bioinformatics, Alagappa University
2022 - 23	Coordinator	Higher Education Best Practice Cell, Alagappa University
2022 - *	Coordinator	DBT-Bioinformatics and Computational Biology Center, Department of Bioinformatics
2017 - *	Coordinator	DST-PURSE Program (Phase-II) – All Science Departments, Alagappa University
2017 - *	Coordinator	DST-FIST Program (Level-I), Department of Bioinformatics, Alagappa University
2013 - *	Coordinator	UGC Innovative Program (PG Diploma), Department of Bioinformatics, Alagappa University
2012 - 13	Coordinator	Career Guidance & Counseling Cell, Alagappa University
2022 - *	Ambassador	The Association of Commonwealth Universities (ACU), Alagappa University
2024 - *	Member	Finance Committee
2024 - 26	Member	Constitution of Research Advisory Committee
2022 - *	Member	Project Monitoring Unit Academic Core Committee of RUSA 2.0
2021 - *	Member	Learning Outcome Based Curriculam Frame Work (LOCF)
2021 - *	Member	Guru Dakshata – UGC Quality Mandates
2021 - *	Member	Paramarsh - UGC Quality Mandates
2021 - *	Member	CARE/STRIDE - UGC Quality Mandates
2016 - *	Member	Research Advisory Committee (RAC), Alagappa University
2012 - 15	Member	Research Advisory Committee, Alagappa University
2010 - *	Member	Website Maintenance Committee, Alagappa University
2010 - *	Member	Standing Committee on Academic Affairs, Alagappa University
2016 - *	Academic staff	Anti-Ragging Committee, Alagappa University

ADMINISTRATIVE RESPONSIBILITIES

2019 - *	Director	Alagappa University Ranking Cell (AURC)
2015 - 17	Director	Directorate of Collaborative Programmes, Alagappa University

2012 - 16	Director	Centre for International Relations, Alagappa University
2018 -*	Coordinator	Tamil Nadu State University Rating Framework (TANSURF), Alagappa University
2017 - 19	Coordinator	National Institutional Ranking Framework Cell
2022 - 24	Member	Internal Quality Assurance Cell (IQAC)
2019 - 21	Member	Center for Internal Quality Assurance Committee, Directorate of Online Programmes, Alagappa University
2018 - 20	Member	Internal Quality Assurance Committee, Directorate of Distance Education (DDE), Alagappa University
2018 - 20	Member	Sports Advisory Board
2018 - 19	Member	Governing Council for DDE, Alagappa University
2018 - 19	Member	Board of Governors of RUSA 2.0, Alagappa University
2016 - 19	Member	Purchase Committee of Alagappa University
2010 - 16	Member	Internal Quality Assurance Cell (IQAC)

ACADEMIC RESPONSIBILITIES - OTHER UNIVERSITY/ INSTITUTES

2022 - *	Distinguished Adjunct Faculty	Karpagam Academy of Higher Education, Coimbatore
2019 - *	Member	Research Advisory Committee, Karpagam Academy of Higher Education, Coimbatore
2019 - 21	Member	Local Program Planning & Management Committee (LPPMC), Bharathiar University, Coimbatore
2018 - 21	Member	Research Committee, Bharathidasan University, Trichy
2017 - 19	Member	Academic Council, Thassim Beevi Abdul Kader College for Women, Ramanathapuram
2015	Member	UGC- SAP Nominee - Punjab University
2015 - 18	Member	Standing Committee on Academic Affairs, Bharathidasan University, Trichy.
2015 - 20	UGC Nominee	SAP implementation and governance of in Department of Physics, Punjab University, Chandigarh

RESPONSIBILITIES IN CURRICULUM DEVELOPMENT- OTHER UNIVERSITY/ INSTITUTES

2022 - *	Member	Board of Studies in Department of Bioinformatics, Bishop Heber College, Bharathidasan University, Trichy.
2022 - *	Member	Board of Studies in Department of Bioinformatics, Bharathidasan University, Trichy.
2022 - *	Member	Board of Studies in Department of Bioinformatics, University of Madras.
2020 - *	Member	Board of Studies in Department of Bioinformatics, School of Chemical and Biotechnology, SASTRA Deemed University,

		Thanjavur.
2018 - *	Member	Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.
2019 (Mar - Nov)	Chairman	Board of Studies of Botany, Alagappa University.
2018 - 21	Member	Board of Studies in Environmental Biotechnology, Bharathidasan University, Trichy.
2015 - 18	Member	Board of Studies in Bioinformatics and Information Technology, Thiruvalluvar University, Vellorarche.
2015 -18	Chairman	Board of Studies in Bioinformatics (UG, PG & PG Diploma), Bharathidasan University, Trichy.
2015 - 17	Member	Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.
2014 -17	Member	Board of Studies in Faculty of Bio and Chemical Engineering, Sathyabama University, Chennai.
2013 - 16	University Representative	Board of Studies of Bioinformatics (Bharathidasan University), Holy Cross College, Trichy.
2012 - 15	Member	Board of Studies of Bioinformatics, Periyar University, Salem.
2012 - 15	Member	Board of Studies of Physics, V.H.N.S.N. College, Virudhunagar.

MEMBERSHIP IN SCIENTIFIC SOCIETIES

S. No	Position	Affiliation/Society/Body
1.	Member	American Crystallographic Association
2.	Vice-President & Life Member	Bioinformatics and Drug Discovery Society (BIDDS)
3.	Member	British Crystallographic Association
4.	Executive Committee Member & Life Member	Indian Crystallographic Association
5.	Life Member	Indian Science Congress Association
6.		Chemical Research Society of India
7.		Society of Biological Chemists, India
8.		Biotech Research Society, India
9.	Member	World Directory of Crystallographers

RESEARCH PROFILE

Broad subject **:** Structural Biology and Bio-Computing

Area of Specialization **:** Small and Macro Molecule X-ray Crystallography

Current Research focus

Two areas of research that I am currently working on include Structural Biology, Computer Aided Drug Design and Bio-Computing. My primary research interest is in the field of Structural and Functional aspects of model organisms namely *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 that share similarity to the human genome. I seek to better understand the structure, mechanism of action and disease processes associated with therapeutic

protein targets (Pak1, SIRT4, nsP2 Protease, STAT2, lysine biosynthesis proteins, *Plasmodium falciparum* and ViralRdRp and Spike proteins) in various pathogens and human disorders. My twenty-nine years of research expertise involves mixed methodology of computational, biochemical and structural biological approaches to identify potent protein drug targets to treat Diabetes, Chikungunya, Dengue, Filariasis, Malaria, Covid-19 and Nosocomial Infections (caused by ESKAPE and Nocardia Pathogens).

FUNDS RECEIVED

TOTAL FUNDS RECEIVED FOR VARIOUS RESEARCH SCHEMES, PROJECTS, FELLOWSHIPS AND ORGANIZING CONFERENCES: **Rs.2216.955 Lakhs**

RESEARCH PROJECTS

FUNDS RECEIVED : **Rs. 1160.063 Lakhs**

S. No.	Ongoing Research Projects	Position	Agency	Amount (Rs in Lakhs)	Period	Status
1.	Understanding the Mechanism of SARS-CoV-2 RNA Replication Initiation and Proofreading for Therapeutics	PI	**MoE-STARS**	91.00	2024 - 27	Ongoing
2.	DBT-National Network Project	Coordinator& PI	**DBT**	144.56	2023 -*	Ongoing
3.	Molecular Insight and *In vitro* validation of Novel lead molecules against Sh3bp2 and kit protein	Co-PI	**ICMR**	24.48	2023 - 24	Ongoing
4.	DBT – Bioinformatics and Computational Biology Center	Coordinator& PI	**DBT**	183.8	2022-*	Ongoing
5.	Computational and functional characterization of peptide inhibitors disrupting LIMK2-cofilin interaction as a novel therapeutic target towards Glaucoma	Co-PI	**ICMR**	15.80	2022 - 24	Ongoing
6.	Translational Health Research for Human Animal and Plant systems (TBRP)	PI	**RUSA 2.0 (Phase -II)**	15.63	2022 -23	Ongoing
7.	Structural and functional insights of potential anti-malarial drug targets of G6PD and 6PGD from *Plasmodium falciparum*(3D7)	PI	**DST INDO-TAIWAN**	73.72	2020 - 24	Ongoing

S. No.	Completed Research Project	Position	Agency	Amount (Rs.in Lakh)	Period	Status
1.	Structural and functional characterization of	PI	**TANSCHE**	29.80	2021- 24	Completed

	phospeotransacetylase (PTA) and Acetate Kinase (ACKA) from Mycobacterium tuberculosis H3R7Rv using *in silico* and *in vitro* studies					
2.	Translational Health Research for Human Animal and Plant systems (TBRP)	PI	**RUSA 2.0 (Phase -I)**	18.14	2019- 21	Completed
3.	Design, Synthesis and *in vitro* anticancer activity of novel and potent signaling influences therapeutic outcome in pancreatic cancer vated kinase 1 (Pak1) inhibitors	PI	**DAE-BRNS**	30.33	2018- 21	Completed
4.	Structural insights of SIRT4 protein from *Homo sapiens* to identify inhibitors for the treatment of Type-II diabetes	PI	**ICMR**	33.34	2017- 20	Completed
5.	Identification of Potential Anti-Filiarial drug targeted enzymes Wbm0441, Wbm0042 from Wolbachia endosymbiont *Brugia malayi*	PI	**DST-SERB**	69.38	2016- 19	Completed
6.	Structural and Functional Insights of potential therapeutic dengue fever target STAT2 protein from *Homo Sapiens*	PI	**UGC-RA**	37.8	2016- 18	Completed
7.	Development of Web Based Search Engines for the Analyses of Protein interactions with Nucleotides, Fatty Acids and Buffers	PI	**DBT**	13.81	2015- 18	Completed
8.	Identification of novel drug..... of the pathogen (TWIN Program)	Co-PI	**DBT-Twin**	73.69	2014- 17	Completed
9.	Structural and Functional Studies of Purine Biosynthesis complex from *Pyrococcus horikoshii* OT3	PI	**DST**	48.98	2013- 16	Completed
10.	Structural and Functional Studies of Translation Initiation factors from *Pyrococcus horikoshii* OT3	PI	**DBT-Twin**	77.00	2013- 16	Completed
11.	Structure determination of CPS and ATCase of *Thermus thermophilus* HB8 and identification of potential inhibitors	PI	**DBT**	32.16	2012- 15	Completed
12.	Structural and Functional analysis of Orotate Phosphoribosyl transferase (TTHA1742) and	PI	**DBT**	50.25	2012- 15	Completed

	Dihydroorotate Dehydrogenase (TTHA0779) from *Thermus thermophilus* HB8					
13.	Structure and functional studies on PH0140 protein from *Pyrococcus horikoshii* OT3	PI	**UGC**	12.903	2012- 15	Completed
14.	The use of biodiversity as a ……. molecular targets of Tuberculosis	Co-PI	**DBT-Twin**	83.49	2010- 13	Completed

GRANTS GENERATED FOR VARIOUS RESEARCH SCHEMES/SUPPORTING PROGRAMMES

FUNDS RECEIVED : **Rs. 816 Lakhs**

S. No.	Title	Position	Agency	Amount (Rs in Lakhs)	Period	Status
1.	DST-FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions) Level – I	Coordinator	**DST**	62	2018-*	Ongoing
2.	DST-PURSE Programme (Phase 2) – All Science Departments	Coordinator	**DST**	700	2017-*	Ongoing
3.	UGC Innovative Programme – PG Diploma in Structural Pharamacogenomics (Post M.Sc. – One year Course)	Coordinator	**UGC**	54 + 2 Assistant Professor Salary for 5 yrs	2013-18	Completed

PRINCIPAL INVESTIGATOR FOR STUDENT FUNDED PROJECTS

FUNDS RECEIVED : **Rs. 185.762 Lakhs**

S. No.	Title	Position	Agency	Amount (Rs in Lakhs)	Period	Status
1.	Deciphering the Microbiomes Role in Breast Cancer Progression: A Metagenomic and Bioinformatics Approach to Identifying Biomarkers and Therapeutic Targets	ICMR - Women Scientist Fellow	ICMR	50.07	2024- 27	Ongoing
2.	Investigation of potential inhibitors for	Research Mentor	UGC Kothari	20.96	2022 -24	Ongoing

	alpha linolenic acid (ALA) metabolism in the human malaria parasite		Fellow			
3.	Computational and Experimental Characterization of Therapeutic Protein Targets in *Acinetobacter baumanniii*	Research Mentor	ICMR - SRF	9.55	2022- 24	Ongoing
4.	Structural studies on polyamine biosynthesis enzymes	Research Mentor	ICMR - SRF	9.55	2022- 24	Ongoing
5.	Three-dimensional structure determination of Bacterial DNA Adenine Methyltransferase from Acinetobacter baumannii to be used as drug targets for designing antibiotics	Research Mentor	ICMR - RA	13.2	2022 -24	Completed
6.	Structural and Functional Insights of Vancomycin Resistant Protein VanR from Enterococcus faecium using In vitro and in silico Approach	Research Mentor	ICMR - RA	13.2	2022 -24	Completed
7.	Structural and Functional Insights on Anti-Filarial Drug targeted enzymes using *in silico* and *in vitro* approach	Research Mentor	ICMR - SRF	4.77	2022- 23	Completed
8.	Experimental and Computational studies on Proteins involved in Peptidoglycan biosynthesis pathway from *Wolbachia* Endosymbiont of *Brugia malayi*	Research Mentor	ICMR (SRF)	09.472	2020- 22	Completed
9.	Structural insights mechanism of type II diabetes proteins from *home sapiens* to identify potential inhibitors computational and biochemical studies	Research Mentor	ICMR (SRF)	08.80	2019- 21	Completed

10.	Structural and functional elucidation and inhibitors identification for SMATase from *Serratia marcescens* to overcome antibiotic resistance	Research Mentor	ICMR (SRF)	08.97	2018- 20	Completed
11.	Transcriptional Regulation by p21-Activating kinase-1 with an Agonist RUNX3 and Antagonist peptides modulating Pancreatic Cancer: A Structural and Computational approach	Research Mentor	UGC (OBC)	19.06	2016- 21	Completed
12.	Structural and functional studies on Transcriptional regulatory proteins from *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 - *In silico* and *in vitro* studies	Research Mentor	UGC (MANF)	18.16	2014- 19	Completed

GRANTS GENERATED FOR ORGANIZING CONFERENCES

FUNDS RECEIVED : Rs. 55.13 Lakhs

S. No.	Title	Position	(Rs in Lakhs)			
			Funding Sources		Industrial Sponsors	Total
1.	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design **(ICSBCADD'2022)**	Convener	DST-SERB	3.50	1.73	**11.63**
			DBT-CTEP	1.50		
			DBT-BIC	4.90		
2.	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design **(ICSBCADD'2019)**	Convener	DBT	1.50	2.25	**12.50**
			DST	2.00		
			CSIR	1.00		
			TNSCST	0.25		
			INSA	0.50		
			AU-RUSA	5.00		
3.	11th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design **(SBCADD'2019)**	Convener	DST	1.50	0.50	**5.75**
			AU-RUSA	3.75		
4.	10th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	Organizing Secretary	DBT	1.00	1.75	**6.05**
			DST	1.50		
			ICMR	0.40		
			CSIR	0.50		

	(**SBCADD'2018**)		AU	0.90		
5.	9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design **(SBCADD'2017)**	Convener	DBT	0.50	0.70	**1.85**
			ICMR	0.40		
			TNSCST	0.25		
6.	8th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2016**)	Convener	DBT	1.00	0.70	**2.70**
			AU	1.00		
7.	7th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2015**)	Organizing Secretary	DBT	0.50	0.90	**3.65**
			DST	1.50		
			TNSCST	0.25		
			AU	0.50		
8.	6th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2014**)	Convener	DBT	1.00	0.75	**3**
			CSIR	0.25		
			UGC	1.00		
9.	5th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2013**)	Convener	DBT	2.00	0.50	**3.50**
			DST	1.00		
10.	4th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2012**)	Convener	DBT	2.00	0.30	**2.55**
			TNSCST	0.25		
11.	3rd National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (**SBCADD'2010**)	Organizing Secretary	DBT	0.75	-	**1.95**
			TNSCST	0.20		
			AU	1		

RESEARCH GUIDANCE

S. No	Name of the candidate	Title	Year of Registration	Year of Completion
1.	K. Surekha	Structural and Functional Studies on Pyrimidine Biosynthetic enzymes from hyperthermophile *Thermus thermophilus* HB8	2011	May, 2018
2.	M. Nachiappan	Structural and Functional Characterization of Aminoacyl tRNA Synthetases using *in vitro* and *in silico* Approaches	2011	May, 2019
3.	D. Prabhu	Structural and Functional Characterization of Streptomycin Adenylyltransferase using	2012	July, 2020

		*in silico*and *in vitro* approaches.		
4.	Sanjay Kumar Choubey	Structural and Functional Studies of Notch Signaling Crosstalk Pathway Proteins from *Homo Sapiens*	2013	August, 2019
5.	R. Santhosh	Web based computing servers for the analysis of Biological Macromolecules	2013	October, 2020
6.	R. Guru Raj Rao	Structural and functional studies on Purine Biosynthesis enzymes from *Pyrococcus horikoshii* OT3: An *Insilico* and *Invitro* Apporach	2014	September, 2021
7.	M. Richard	Structural and Functional Studies on Transcriptional Regulatory proteins from *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 – *In silico* and *In vitro* approaches	2014	November. 2021
8.	Jayashree Biswal	Structure based design and Biological Validation of Inhibitors for Selected Activated Kinases	2014	December, 2021
9.	J. Prajisha	Structural Insights mechanism of Kinase proteins from *Homo sapiens* to identify type 2 diabetes inhibitors using Computational approaches	2015	August 2022
10.	R. Raghu	Computational Design and Discovery of Potential Kinase Inhibitors	2015	September 2024
11.	M. Veerapandiyan	Structural Studies on Polyamine Biosynthesis Enzymes	2016	September 2024
12.	P. Saritha	Experimental and computational studies on protein involved in peptidoglycan biosynthesis pathway from pathogens	2018	September 2023
13.	M. Amala	Structural and Functional Insights on Anti-Filarial Drug targeted enzymes using *in silico* and *in vitro* approach	2018	September 2023
14.	S. Madhumathi	Web based server for protein sequences and structures through data mining and Computational approaches	2019	September 2024
15.	N. Hemavathy	Insilico conformational analysis and design of inhibitors targeting LIM kinases	2019	Ongoing
16.	R. Raji	Computational and Experimental Characterization of Therapeutic Protein Targets in *Acinetobacter baumannii*	2020	Ongoing
17.	S. Sneha	Structural and Functional Characterization of enzymes involved in central metabolism pathway from *Mycobacterium tuberculosis* using *Insilco* and *Invitro* studies	2021	Ongoing
18.	A. Karthika	Structural and Functional Exploration of Multi-Drug Resistant Efflux Pump Proteins from *Acinetobacter baumannii* towards Inhibitors Identification	2021	Ongoing
19.	N. Shaslinah	Computational and Characterization of Therapeutic Potent Targets from *Nocardia farcinica*.	2022	Ongoing

20.	N. Bhuvaneswari	Characterization of Novel Drug Targets in *Pseudomonas aeruginosa* using Subtractive Genomics Approach	2022	Ongoing
21.	K. Heyram	Investigaing the Transcriptome of the Medicinal plants to identify lead molecules for Antibacterial against ESKAPE pathogens	2023	Ongoing
22.	Pradeep Kumar	Computational and Experimental Characterization of Therapeutic Protein Targets from *Enterococcus faecium*	2024	Ongoing
23.	MS. Maharaja	Identification of Potent Therapeutic Protein Targets from Pathogenic Strains of *Nocardia asteriodes* using Computational Approaches	2024	Ongoing
24.	R. Veena	Identification of Potential Drug Targets in Human pathogenic *Nocardia cyriacigeorgica* using Computational Approaches	2024	Ongoing
25.	N Maheswari	Identification of Novel Drug Targets and Vaccine Candidates in *Leptospira interrogans* through Subtractive Genomics and Reverse Vaccinology	2024	Ongoing

Dissertation Supervision

Degree	**Ongoing**		**Completed**	
M. Phil	**-**		**Alagappa:** 8	**Other:** -
M.Sc/ M.Tech	**Alagappa:** -	**Other:** -	**Alagappa:** 17	**Other:** 12
Others	**Alagappa:** -	**Other:** -	**Alagappa:** 13	**Other:** 7
Project Fellows	-		12	

Post Doctoral Fellows/ Research Associate

S. No	**Name of the candidate**	**Title of the Project**	**Period**	**Status**
1	Dr. S. Rajamanikandan	RUSA 2.0 - Experimental and Computational Drug Discovery Studied for Life Threatening Disease	2019 - 2021	Completed
2	Dr. V. M. Manikandamathavan	RUSA 2.0 - Experimental and Computational Drug Discovery Studied for Life Threatening Disease	2019 - 2021	Completed
3	Dr. Balajee Ramachandran	RUSA 2.0 - Experimental and Computational Drug Discovery Studied for Life Threatening Disease	2019-2021	Completed
4	Dr. M. Nachiappan	RUSA 2.0 - Experimental and Computational Drug Discovery Studied for Life Threatening Disease	2019 - 2021	Completed
5	Dr. Vishwanathan Vijayan	Three-dimensional structure determination of Bacterial DNA Adenine Methyltransferase from Acinetobacter baumannii to be used as drug targets for designing antibiotics	2022 - 2023	Completed

6	Dr. M. Ahila	Structural and Functional Insights of Vancomycin Resistant Protein VanR from Enterococcus faecium using In vitro and in silico Approach	2022 - 2024	Completed
7	Dr. C.N. Rahul	Investigation of potential inhibitors for alpha linolenic acid (ALA) metabolism in the human malaria parasite	2021 - *	Completed
8	Dr. Manikandan J	Identification of potent drug for life threatening disease	2022 - *	Ongoing
9	Dr. B. Thiyonila	Deciphering the Microbiomes Role in Breast Cancer Progression: A Metagenomic and Bioinformatics Approach to Identifying Biomarkers and Therapeutic Targets	2024 - *	Ongoing

AWARDS & HONORS

Fellowships

S. No	Fellowship	Agency	Period
1.	Post- Doctoral Fellowship	IRPHA	August 2001- May 2003
2.		DST	October 2000 - July 2001
3.		DBT	March2000 - September2000
4.	Senior Research Fellowship	CSIR	December 1997– December 2000

National Awards

S. No	Award	Agency	Year
1.	Outstanding Academic and Researcher award	Alagappa University, Karaikudi	2024
2.	Outstanding Academic and Researcher award		2023
3.	Outstanding Researcher award		2022
4.	Leadership Development for Dean of Faculty and head of the Department of Universities	National Institute of Educational Planning and Administration (NIEPA), New Delhi, India.	2024
5.	Tamil Nadu Scientist Award (TANSA-2018)	Tamil Nadu State Council for Science and Technology	2018
6.	MHRD –Leadership for Academicians Programme (LEAP)	NIT-Trichy, IIIT-Sri City& NTU-Singapore	2019
7.	Research Award (with 2 years salary)	UGC	2016
8.	Elected Fellow (FASCh.)	Academy of Sciences, Chennai	2015
9.	Young Scientist Travel Grant	DST	1999

International Awards

S. No	Award	Agency	Year
1.	Who's Who Scientific Directory	'Marquis'	2007

2.	Young Scientist Travel Grant	UNESCO	1999
3.	Young Scientist Fellow	IUCr	1999

INTERNATIONAL VISIT FOR ACADEMIC/ RESEARCH PURPOSE

S. No	Name of the University	Country	Purpose	Duration
1.	Binary University of Management and Entrepreneurship	Malaysia	Academic and Research Collaborations	29th-31st January, 2019
2.	Open University of Malyasia			
3.	Tangshan Polytechnic College	China		8th – 10th April, 2019
4.	Tianjin University			
5.	Nanyang Technological University	Singapore		11th – 12th April, 2019

INTERNATIONAL VISITS AS VISITING SCIENTIST/RESEARCHER

S. No	Institute	Period
1.	National Synchrotron Radiation Research Center, Taiwan	05th-08thDecember, 2017
2.	Osaka University and RIKEN SPring-8, Japan	22nd -30thJune, 2014
3.		02nd -08thDecember, 2012
4.		09th-16thDecember, 2011
5.		22ndMarch- 6thJune, 2010
6.	Abroad Academic Visit/Visiting Scientist - USA, UK, Australia, Japan, Italy, China, South Korea, Singapore, Germany Taiwan, Hawaii, and Malaysia etc...	1999 - *

MOU EXECUTED WITH INSTITUTES & UNIVERSITIES

International

S. No	Institute	Purpose	Period	Status
1.	National Synchrotron Radiation Research Centre (NSRRC), Taiwan	Joint Research and Academic Programmes	2022-27	Ongoing
2.	National Synchrotron Radiation Research Centre (NSRRC), Taiwan	Joint Research and Academic Programmes	2017-20	Completed
3.	National Synchrotron Radiation Research Centre (NSRRC), Taiwan	Joint Research and Academic Programmes	2014-17	Completed
4.	School of Science, Osaka University, Japan	Academic and Student Exchange Program	2010-15	Completed
5.	Institute for Protein Research (IPR), Japan	Collaborative Research	2010-15	Completed
6.	RIKEN, Kanagawa, Japan	Collaborative Research	2010-15	Completed

7.	Bio-Metal Science Lab, RIKEN, Spring-8, Japan	Material Transfer Agreement	2010-15	Completed

National

S. No	Institute	Purpose	Period	Status
1.	Vellamal Medical College Hospital and Research Institute Madurai	Collaborative Research	2024-29	Ongoing
2.	Sri Ramachandra Institute of Higher Edcation and Research Chennai	Collaborative Research	2024-29	Ongoing
3.	ICAR- National Research Centre for Bannana	Collaborative Research	2023 - 28	Ongoing
4.	Karpagam Academy of Higher Education, Coimbatore	Collaborative Research	2023 - 28	Ongoing
5.	Sri Ramachandra University, Chennai	Collaborative Research	2023-28	Ongoing
6.	Orbito Asia Diagnostics	Collaborative Research	2022 - 27	Ongoing
7.	Sree Balaji Medical College and Hospital (Biher) Medical College, Chennai.	Collaborative Research	2021 - 26	Ongoing
8.	Vision Research Foundation	Collaborative Research	2021- 24	Ongoing
9.	CSIR-Institute of Genomics & Integrative Biology, Delhi	Collaborative Research	2020 - 25	Ongoing
10.	Bishop Heber College (Autonomous, Tiruchirappalli)	Joint Research and Academic Programmes	2018 - 23	Completed
11.	Indian Institute of Technology-Madras, Chennai	Joint Research and Academic Programmes	2017 - 22	Completed
12.	GE Healthcare Pvt. Ltd., Karnataka	Academia and Industry training towards application on Protein related studies	2017 - 19	Completed
13.	Sri Ramachandra University, Chennai	Joint Research and Academic Programmes	2016 - 21	Ongoing

ACADEMIC/ RESEARCH EVENTS ORGANIZED IN LEAD ROLES

S. No	Position	Event Title	Date
1.	Convener	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD'2022)	Nov 21st - Nov 25th, 2022
2.	Convener	E-Learning Program on "Bioinformatics as cartographic tool in drug discovery"	May 19th - 30th, 2020

3.	Convener	International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD'2019)	Dec 11th -13th, 2019
4.	Convener	International Conference on Innovative and Emerging Trends in Botany (ICIETB-2019)	Nov 6th -7th, 2019
5.	Convener	11th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2019)	Feb 12th-15th, 2019
6.	Organizing Secretary	10th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2018)	Feb 20th-23rd, 2018
7.	Convener	9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2017)	Feb 14th-17th, 2017
8.	Organizing Secretary	Fire and Safety Awareness Camp for our University Students and Staff members	Oct 19th, 2016
9.	Organizing Secretary	Eye Camp for Faculty members, Administrative Staffs and Students of our University	Oct 5th, 2016
10.	Convener	World Habitat Day Celebration	Oct 3rd, 2016
11.	Co-Convener	International Conference on Recent Trends in Biosciences-2016 (ICRTB-2016)	Apr 07th - 09th, 2016
12.	Convener	8th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2016)	Feb 16th-19th, 2016
13.	Convener	World Habitat Day Celebration	Oct 15th, 2015
14.	Organizing Secretary	7th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2015)	Feb 24th-27th, 2015
15.	Convener	World Creativity Day celebration	Apr 21st, 2014
16.	Convener	6th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2014)	Feb 18th-21st, 2014
17.	Convener	5th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2013)	Feb 19th-22nd, 2013
18.	Convener	4th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2012)	Feb 20th-23rd, 2012
19.	Convener	Nation Youth Day celebration	Jan 12th, 2012
20.	Convener	World Water Day celebration	Mar 22nd, 2011
21.	Organizing Secretary	3rd National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2010)	Dec 20th-22nd, 2010

DETAILS OF PATENT, IMPACT FACTOR, CITATIONS and H-INDEX and

Patent	:	**2**
Cumulative Impact Factor	:	**832.58**
H-index	:	**32**
i10 index	:	**95**
Total Citations	**:**	**3902**

PATENT - 2

S.No.	Title of Patent / Tech.Transfer / Product / Process	Author(s)	Patent Number	Date	Status (Filed/ Published / Granted)
1.	A Process of Extraction of Copper Oxide Nanoparticles Using Green Synthesis	Dr. A. Sivaranjini, Dr. R. Subashkumar, Dr. P. Boomi, Dr. S. Santhosh Baboo, Dr. B. L Shivakumar, A. Aswini, **Dr. J. Jeyakanthan,** Dr. H. Gurumallesh Prabhu, Dr. P. Sagadevan	202141049992	December, 2021	Published
2.	Synergistic formulation for preventing antibiotic resistance effect ofserratia marcescens	Dr.Dhamodharan prabhu, Dr.Sundarraj rajamanikandan, Ramasamy palaniappan, **Dr. Jeyaraman Jeyakanthan**	202241057508 A	December, 2022	Published

RESEARCH PUBLICATIONS IN SCIENTIFIC JOURNALS

Total number of papers published: 229

S. No	Author details and Title of Paper	Journal, Issue No. and Page, etc	Impact Factor	Citation
229	Heyram, K., Manikandan, J., Prabhu, D., & **Jeyakanthan, J.** Computational insights into marine natural products as potential antidiabetic agents targeting the SIK2 protein kinase domain.	*SAR and QSAR in Env. Res.35*(12), 1129-1154. (2024).	2.3	Nil
228	Hemavathy, N., Umashankar, V., & **Jeyakanthan, J**. Unveiling novel type 1 inhibitors for targeting LIM kinase 2 (LIMK2) for cancer therapeutics: An integrative pharmacoinformatics approach.	*Comput. Bio. Chem*, *115*, 108289. (2025)	2.6	Nil
227	Shankari, G., Raji, R., Prabhu, D., **Jeyakanthan, J.,** & Gopinath, S. C. Progressive Dynamics of Cancer Stem Cells in Oral Squamous Cell Carcinoma.	*Curr. Cancer. Drug Targets*, *25*(2), 113-117. (2025).	2.91	Nil
226	Rajmichael, R., Hemavathy, N., Mathimaran, A., Pandian, C. J., Kingsley, J. D., Subramanian, G., & **Jeyakanthan, J.** Whole Genome Sequencing,	*Microb. Pathog*, 107224. (2024).	3.3	Nil

	Characterization and Comparative Genome Analysis of Acinetobacter baumannii JJAB01: A Comprehensive Insights on Antimicrobial Resistance and Virulence Genotype.			
225	Sangavi, P., Nagarajan, H., Subramaniyan, S., **Jeyaraman, J.,** & Langeswaran, K.. Unveiling the oncological inhibition of bioactive compounds from Adansonia digitata via in silico analysis by targeting γ-butyrobetaine dioxygenase 1 against triple negative breast cancer.	*J. Biomol. Struct. Dyn.* 1-24. (2024)	2.7	Nil
224	Nagarajan. H., Samdani, A., Umashankar, V., **Jeyakanthan, J.** Deciphering the conformational transitions of LIMK2 active and inactive states to ponder specific druggable states through microsecond scale molecular dynamics simulation.	*J Comput Aided Mol Des.* 6(6):459-482. (2022)	4.17	1
223	Roy, J., Hemavathy, N., Saravanan, R., Gopinath, P., Pugazh, P., **Jeyaraman, J.,** Venkatraman, G., Rayala, S.K. Spatio-temporal localization of P21-activated kinase in endometrial cancer.	*Biotechnol Appl Biochem.* 2024 Nov 6.	3.2	Nil
222	Prabhu, D., Shankari, G., Rajamanikandan, S., **Jeyakanthan, J.,** Velusamy, P., Gopinath, S. C., & Pattabi, S. Designing potential lead compounds targeting aminoglycoside N (6′)-acetyltransferase in Serratia marcescens: A drug discovery strategy.	*Int J Biol Macromol*, (2024). 136976.	7.7	Nil
221	Kumar, P., Ravichandran, A., Durgadevi, S., Manikandan, V., Song, K. S., Prabhu, D., **Jeyaraman, J.,** & Muthusamy, G.. Microwave-Assisted Green Synthesis of CQDs from Mesosphaerum suaveolens Extract: Photocatalytic Degradation and Anticancer Activity.	*Waste Biomass Valorization*. (2024)*15*(11), 6539-6552.	2.6	Nil
220	Arumugam, M. P., Vetrivel, U., **Jeyaraman, J.,** Chauhan, S. C., & Mannu, J. Interaction and dynamics of biological molecules.	*Front. Phy. 12*, 1439802. (2024).	3.1	Nil
219	Panchalingam, S., Jayaraman, M., **Jeyaraman, J.,** & Kasivelu, G. Harnessing Marine Natural Products to Inhibit PAD4 Triple Mutant: A Structure-Based Virtual Screening Approach for Rheumatoid Arthritis Therapy.	*Arch. Biochem. Bioph*. 110164. (2024).	3.8	Nil
218	Alagesan, K., Nagarajan, H., & **Jeyakanthan, J**. Repurposing FDA-approved drugs for combating tigecycline resistance in Acinetobacter baumannii: in silico screening against BaeR protein.	*Mol. Div.* 1-22. (2024).	3.8	Nil
217	Sanjeevi, M., Rajendran, S., **Jeyaraman, J.,** & Sekar, K. MIPDS: a comprehensive database on the molecular interactions in protein dimer structures.	*J. Appl. Crystallogr. 57* (5). (2024).	4.86	Nil
216	Sanjeevi, M., Mohan, A., Ramachandran, D., **Jeyaraman, J.,** & Sekar, K. CSSP-2.0: A refined	*Comput. Biol. Chem.* 108065.	2.6	Nil

	Consensus method for accurate protein secondary structure prediction.	108158. (2024).		
215	Rangaswamy, R., Sneha, S., Hemavathy, N., Umashankar, V., & **Jeyakanthan, J.** Computational discovery of AKT serine/threonine kinase 1 inhibitors through shape screening for rheumatoid arthritis intervention.	*Mol. Div.*, 1-17. (2024).	3.8	Nil
214	Mathimaran, A., Nagarajan, H., Mathimaran, A., Huang, Y. C., Chen, C. J., Vetrivel, U., & **Jeyaraman, J**. Deciphering the pH-dependent oligomerization of aspartate semialdehyde dehydrogenase from Wolbachia endosymbiont of Brugia malayi: An in vitro and in silico approaches.	*Int J Biol Macromol*, 133977. (2024)	8.2	Nil
213	Mathimaran, A., Pandian, C. J., Sappanimuthu, P., Kirshnakumar, H., Amala, M., Veerapandiyan, M., & **Jeyaraman, J.** Synthesis of multifunctional Silver oxide, Zinc oxide, Copper oxide and Gold nanoparticles for enhanced Antibacterial activity against ESKAPE Pathogens and Antioxidant, Anticancer activities using Momordica cymbalaria seed extract.	*Mater. Today Commun.* 108838. (2024).	3.662	Nil
212	Jayaraman, M., Kumar, R., Panchalingam, S., & **Jeyaraman, J.** Mechanistic Insights into the Conformational Changes and Alterations in Residual Communications Due to the Mutations in the pncA Gene of Mycobacterium tuberculosis: A Computational Perspective for Effective Therapeutic Solutions.	*Comput. Biol. Chem.* 108065. (2024).	3.737	Nil
211	Amala, M., Nagarajan, H., Ahila, M., Nachiappan, M., Veerapandiyan, M., Vetrivel, U., & **Jeyakanthan, J.** Unveiling the intricacies of allosteric regulation in aspartate kinase from the Wolbachia endosymbiont of Brugia Malayi: Mechanistic and therapeutic insights.	*Int J Biol Macromol*, 131326. (2024).	8.2	Nil
210	Loganathan, L., **Jeyaraman, J.,** & Muthusamy, K. HTNpedia: A Knowledge Base for Hypertension Research.	*Comb Chem High T Scr*, *27*(5), 745-753. (2024).	1.8	Nil
209	Meiyazhagan, G., Devaraj, M., Biswal, J., Manogaran, P., **Jayaraman, J.,** & Kreedapathy, G. E. Silver nanoparticle interaction with ergosterol induces cell death and inhibits Trichosporon asahii cell proliferation.	Europe PMC (2024).	2.478	Nil
208	Priya, M. G. R., Solomon, V. R., Hemavathy, N., **Jeyakanthan, J.,** Kumar, D., & Mahesh, J. Design, synthesis, in silico, and pharmacological evaluation of novel quinoline derivatives containing substituted piperazine moieties as potential anti-breast cancer agents.	*Results. Chem.* 101359. (2024).	2.3	Nil

207	Malaisamy, V., Alagesan, K., Nagarajan, H., Jayaraman, M., Vetrivel, U., & **Jeyaraman, J.** Biochemical and biophysical characterization of biosynthetic arginine decarboxylase from *Thermus thermophilus*. *Journal of biomolecular structure & dynamics*, 1–18. Advance online publication.	*J. Biomol. Struct. Dyn.* (2024).	4.4	Nil
206	Nathar, S., Rajmichael, R., Jeyaraj Pandian, C., Nagarajan, H., Mathimaran, A., Kingsley, J. D., & **Jeyaraman, J.** Exploring Nocardia's ecological spectrum and novel therapeutic frontiers through whole-genome sequencing: unraveling drug resistance and virulence factors.	*Arch. Microbiol*, *206*(2), 76. (2024).	2.667	Nil
205	Aiswarya, N., Rahul, C. N., Kothandan, G., Kurup, M. P., Manoj, E., Chandrasekaran, P., **Jeyakanthan J** & Sekar, K. Crystal structure of 1-(E)-[(5-bromo-2-hydroxybenzylidene amino) pyrrolidin-2-one]: Design, synthesis and computational evaluation of a novel racetam congener for epilepsy.	*J. Mol. Struct*, 1300, 137219. (2024).	3.196	Nil
204	Hyderi, Z., Nagarajan, H., Priya, S. J., **Jeyakanthan, J.,** & Veera Ravi, A. Exploring the antimicrobial potential of 4, 5, 7-trihydroxyflavanone (THF) against vancomycin-resistant Enterococcus gallinarum infections: in vitro and in silico investigations.	*J. Biomol. Struct. Dyn.* 1-15. (2023).	4.4	Nil
203	Rangaswamy, R., Hemavathy, N., Subramaniyan, S., Vetrivel, U., & **Jeyakanthan, J.** Harnessing allosteric inhibition: prioritizing LIMK2 inhibitors for targeted cancer therapy through pharmacophore-based virtual screening and essential molecular dynamics.	*J. Biomol. Struct. Dyn.* 1-18. (2023).	4.4	Nil
202	Jayaraman, M., Gosu, V., Kumar, R., & **Jeyaraman, J.** Computational Insights into Potential Marine Natural Products as Selective Inhibitors of Mycobacterium tuberculosis InhA: A Structure-Based Virtual Screening Study.	*Comput. Biol. Chem.* 107991 (2023).	3.737	Nil
201	Veerapandian, M., Hemavathy, N., Karthika, A., Manikandan, J., Vetrivel, U., & **Jeyakanthan, J.** pH-Dependent conformational stability of SpeB from Thermus thermophilus HB8: insights from molecular dynamics simulation.	*Mol. Simul.* 1-17. (2023).	2.346	Nil
200	Ahmad, M., Jha, B., Bose, S., Tiwari, S., Dwivedy, A., Kar, D., Pal, R., Mariadasse, R., Parish, T., **Jeyakanthan, J.,** Vinothkumar, K. R., & Biswal, B. K. Structural snapshots of Mycobacterium tuberculosis enolase reveal dual mode of 2PG binding and its implication in enzyme catalysis.	*IUCrJ*. (2023)	5.588	Nil

199	Madhumathi, S., Santhosh, R., Dhanalakshmi, R., Rahul, C.N., **Jeyakanthan, J.,** & Sekar, K. A novel search engine for the proteins involved in the Notch crosstalk signaling pathways.	*J. Biosci.* (2023)	2.795	Nil
198	Subramaniyan, S., Nagarajan, H., Vetrivel, U., & **Jeyaraman, J.** Multilayer precision-based screening of potential inhibitors targeting Mycobacterium tuberculosis acetate kinase using in silico approaches.	*Comput. Biol. Chem.* (2023). *107*, 107942.	3.737	Nil
197	Vinita, N. M., Devan, U., Durgadevi, S., Anitha, S., Govarthanan, M., Antony Joseph Velanganni, A., **Jeyaraman, J.** & Kumar, P. Impact of Surface Charge-Tailored Gold Nanorods for Selective Targeting of Mitochondria in Breast Cancer Cells Using Photodynamic Therapy.	*ACS Omega*. (2023).	4.132	Nil
196	Karthika, A., Hemavathy, N., Amala, M., Rajamanikandan, S., Veerapandian, M., Prabhu, D., Umashankar V., Chen CJ., Chitra JP., & **Jeyakanthan, J.** Structural and functional characterization of 6-phosphogluconate dehydrogenase in Plasmodium falciparum (3D7) and identification of its potent inhibitors.	*J. Biomol. Struct. Dyn.* 1-17. (2023).	5.235	Nil
195	Panchalingam, S., Govindaraju, K., Jayaraman, M., Kumar, R., Kalimuthu, S., & **Jeyaraman, J.** Differential gene expression analysis combined with molecular dynamics simulation study to elucidate the novel potential biomarker involved in pulmonary TB.	*Microb. Pathog.*, 1- 06266. (2023).	3.84	Nil
194	Jayaprakash, P., Biswal, J., Pandian, C. J., Kingsley, J., & **Jeyakanthan, J.** Investigation of translation initiation factor through protein–protein interactions and molecular dynamics approaches.	*Mol. Simul.*, 1-13. (2023)	2.346	Nil
193	Nallasamy, P., shafreen Rajamohamed, B., **Jeyaraman, J.,** Kathirvel, B., & Natarajan, S. Regenerative marine waste towards CaCO3 nanoformulation for Alzheimer's therapy.	*Environ. Res.*, *225*, 115631. (2023)	8.431	Nil
192	Muthumanickam, S., Ramachandran, B., Boomi, P., **Jeyakanthan, J.,** Prabu, H. G., Jegatheswaran, S., & Premkumar, K. Combination of bendamustine-azacitidine against Syk target of breast cancer: an in silico study.	*J. Biomol. Struct. Dyn.* (2023)	5.235	Nil
191	Chitra Jeyaraj Pandian, N Arul Murugan, SM Rajendren & **Jeyakanthan Jeyaraman.** Computer-Aided vaccine design for selected positive-sense single	*Indian J. Biochem. & Biophy.*	1.476	Nil

	stranded RNA viruses	Vol. 60, pp. 281-296. (2023)		
190	Sruthi, S., Saritha, P., Yen- Chieh, H., Amala, M., **Jeyakanthan, J.,** Chen, CJ. Purification, crystallization and X-ray diffraction analysis of succinyl-diaminopimelate desuccinylase from Wolbachia endosymbiont of *Brugia malayi.*	*J Chin Chem Soc. (*2023)	1.74	Nil
189	Ramachandran, B., Muthupandian, S., **Jeyaraman, J.,** & Lopes, B. S. Computational exploration of molecular flexibility and interaction of meropenem analogs with the active site of oxacillinase-23 in Acinetobacter baumannii.	*Front. Che. 11* (2023).	5.545	Nil
188	Javali, P. S., **Jeyakanthan, J.,** Chen, C. J., & Arumugam, M. An integrated bioinformatics approach to identify candidate biomarkers and the evaluation of drugs for pheochromocytoma.	*bioRxiv*, (2023).	Peer review	Nil
187	Vinita, NM., Devan, U., Durgadevi, S., Anitha, S., Prabhu, D., Rajamanikandan, S., Govarthanan, M., Ananthanarayanan Yuvaraj, A., Biruntha, M., Joseph Velanganni, AA., **Jeyakanthan, J.,** Arul Prakash, P., Mohamed Jaabir, MS & Kumar. P**.** Triphenylphosphonium conjugated gold nanotriangles impact Pi3K/AKT pathway in breast cancer cells: a photodynamic therapy approach.	*Sci. Rep.* (2023)	4.996	1
186	Rahul, CN., Aiswarya, N., **Jeyakanthan, J.,** Sekar, K. Computational Analysis of RNA Sequencing Dataset Reveals Novel Associations in Response to Artemisinin-Resistant Malaria: Implications in Drug Discovery and Design.	*J Appl Bioinforma Comput Biol.* (2022) 11:7.	1.04	Nil
185	Prabhu, D., Rajamanikandan, S., Amala, M., Saritha, P., **Jeyakanthan, J.,** & Ramasamy, P. Functional Characterization, Mechanism, and Mode of Action of Putative Streptomycin Adenylyltransferase from Serratia marcescens.	*J. Antibiot.11*(12) 1722. (2022)	4.94	Nil
184	Arul Murugan, N, Chitra, J, **Jeyakanthan , J**, Rajendren, SM. Multi-level scoring approach to discover multi-targeting potency of medicinal plant phytochemicals against protein targets in SARS-CoV-2 and human ACE-2 receptor	*Indian J. Biochem. Biophys*. (2022)	1.918	3
183	Sindhu, T., Rajamanikandan, S., **Jeyakanthan, J.,** & Pal, D. Investigation of protein-ligand binding motions through protein conformational morphing and clustering of cytochrome bc1-aa3 super complex.	*J Mol Graph Model*. *118*, 108347. (2022)	2.518	Nil

182	Yuvaraj, I., Chaudhary, S. K., **Jeyakanthan, J.,** & Sekar, K. Structure of the hypothetical protein TTHA1873 from Thermus thermophilus.	*Acta Crystallogr. F:Struct. Biol. Commun. 78*(9). (2022).	1.004	Nil
181	Jeyaraj Pandian, C., **Jeyaraman, J.,** & SM, R. Post-acute sequelae of SARS-CoV-2 Delta variant infection: A report of three cases in a single family.	*Indian J. Biochem. Biophys*. (2022)	1.918	2
180	Balu, R., Ramachandran, S. S., Mathimaran, A., **Jeyaraman, J.,** & Paramasivam, S. G. Functional significance of mouse seminal vesicle sulfhydryl oxidase on sperm capacitation in vitro.	*Mol. Hum. Reprod.*(2022).	4.518	Nil
179	Tomar, A., Sahoo, S., Aathi, M., Kuila, S., Khan, M. A., Ravi, G. R. R., **Jeyaraman, J.,** Mehta, J.L., Varughese, K.I. and Arockiasamy, A. Exploring the druggability of oxidized low-density lipoprotein (ox-LDL) receptor, LOX-1, a proatherogenic drug target involved in atherosclerosis.	*Biochem. Biophys. Res. Commun*. (2022).	3.575	Nil
178	Jayaprakash, P., Biswal, J., Rangaswamy, R., & **Jeyakanthan, J.** Designing of potent anti-diabetic molecules by targeting SIK2 using computational approaches.	*Mol. Divers.* (2022)	2.943	Nil
177	Nagarajan, H., Samdani, A., Umashankar, V., & **Jeyakanthan, J.** Deciphering the conformational transitions of LIMK2 active and inactive states to ponder specific druggable states through microsecond scale molecular dynamics simulation.	*J. Comput. Aided Mol. Des.* (2022)	3.686	Nil
176	Muthusamy, S., Sundarraj, R., Srikanth, S., Dhamodharan, P., **Jeyaraman, J.,** Kadhirvel, S. Designing specific inhibitors against dihydrofolate reductase of W. bancrofti towards drug discovery for lymphatic filariasis.	*Struct. Chem.* (2022)	1.494	2
175	Nirusimhan, V., Andrew Gideon, D., Parashar, A., Jeyachandran, S., **Jeyaraman, J.,** Subbaraj, G., & Kulanthaivel, L. Structural Modeling of Drosophila melanogaster Gut Cytochrome P450s and Docking Comparison of Fruit Fly Gut and Human Cytochrome P450s.	*Curr. Drug Metab.* (2022)	3.731	Nil
174	Ramachandran, B., Jeyarajpandian, C., Jeyaseelan, J. M., Prabhu, D., Rajamanikandan, S., Boomi, P., & **Jeyakanthan, J.** Quercetin-induced apoptosis in HepG2 cells and identification of quercetin derivatives as potent inhibitors for Caspase-3 through computational methods.	*Struct. Chem.* (2022)	1.494	5
173	Alexpandi, R., Gendrot, M., Abirami, G., Delandre, O., Fonta, I., Mosnier, J., Mariadasse R., **Jeyakanthan, J.,** & Veera Ravi, A. Repurposing of doxycycline to hinder	*Front. Microbiol.* (2022)	5.64	3

	the viral replication of SARS-CoV-2: From in silico to in vitro validation.			
172	Sureshan, M., Rajamanikandan, S., Srimari, S., Prabhu, D., **Jeyakanthan, J.,** & Saraboji, K. Designing specific inhibitors against dihydrofolate reductase of W. bancrofti towards drug discovery for lymphatic filariasis. 1-13.	*Struct. Chem.* (2022)	1.494	1
171	Murugan, N. A., Javali, P. S., Pandian, C. J., Ali, M. A., Srivastava, V., & **Jeyaraman, J.** Computational investigation of the increased virulence and pathogenesis of SARS-CoV-2 lineage B.1.1.7.	*Phys. Chem. Chem. Phys. 24*(34), 20371–20380. (2022).	3.676	9
170	Ramachandran, S. S., Balu, R., Vilwanathan, R., **Jeyaraman, J.,** & Paramasivam, S. G. A mouse testis serine protease, TESP1, as the potential SPINK3 receptor protein on mouse sperm acrosome.	*Mol Hum Reprod*. (2021).	4.025	2
169	Poopandi, S., Sundaraj, R., Rajmichael, R., Thangaraj, S., Dhamodharan, P., Biswal, J., Malaisamy, V., Jeyaraj Pandian, C., & **Jeyaraman, J.** Computational screening of potential inhibitors targeting MurF of Brugia malayi Wolbachia through multi-scale molecular docking, molecular dynamics and MM-GBSA analysis.	*Mol. Biochem. Parasito. 246*, 111427 (2021)	1.759	3
168	Dwivedy, A., Mariadasse, R., Ahmad, M., Chakraborty, S., Kar, D., Tiwari, S., Bhattacharyya, S., Sonar, S., Mani, S., Tailor, P., Majumdar, T., **Jeyakanthan, J.,** & Biswal, B. K.. Characterization of the NiRAN domain from RNA-dependent RNA polymerase provides insights into a potential therapeutic target against SARS-CoV-2.	*PloS. Comput. Biol*. *17*(9), e1009384 (2021)	4.475	15
167	Biswal, J., Jayaprakash, P., Rayala, S. K., Venkatraman, G., Rangaswamy, R., & **Jeyaraman, J.** WaterMap and Molecular Dynamic Simulation-Guided Discovery of Potential PAK1 Inhibitors Using Repurposing Approaches.	*ACS Omega*. *6*(41), 26829–26845 (2021)	3.512	3
166	Murugan, N. A., Pandian, C. J., & **Jeyakanthan, J.** Computational investigation on *Andrographis paniculata* phytochemicals to evaluate their potency against SARS-CoV-2 in comparison to known antiviral compounds in drug trials.	*J Biomol Struct Dyn*. *39*(12), 4415–4426 (2021)	3.392	102
165	Karthika, A., Ramachandran, B., Chitra, J., Prabhu, D., Rajamanikandan, S., Veerapandiyan, M., & **Jeyakanthan, J.** Molecular dynamics simulation of Toxin-Antitoxin (TA) system in *Acinetobacter baumannii* to explore the novel mechanism for inhibition of cell wall biosynthesis: Zeta Toxin as an effective therapeutic target.	*J Cell Biochem* (2021)	4.429	3
164	Mohanrasu, K., Guru Raj Rao, R., Dinesh, G. H., Zhang, K., Sudhakar, M., Pugazhendhi, A.,	*Int J Biol Macromol.186*,	6.953	4

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12	**Jeyakanthan, J.,** Yogavel, M., Joseph Rajan, T., Velmurugan, D., & Sekar, K. Crystal and molecular structure of an acridinedione.	*Crys Res Tech.37*(9), 1029-1037.(2002).	1.639	8
11	**Jeyakanthan, J.,** Velmurugan, D., Selvi, S., & Perumal, P. T. 1-(2,4-Dinitrophenyl)-3-(2-hydroxy-5-methylphenyl) pyrazole-4-carboxaldehyde.	*Acta. Cryst. 57*(5), o474-o476.(2001).	0.517	4
10	Kanthimathi, M., Nair, B. U., Ramasami, T., **Jeyakanthan, J.,** & Velmurugan, D. Synthesis, crystal structure and reactivity of trans-diaquo N, N′-ethylenebis-(3-methoxysalicylideneiminato) chromium (III).	*Transit Metal Chem*. *25*(2), 145-149.(2000).	1.588	10
9	**Jeyakanthan, J.,** Shanmuga Sundara Raj, S., Velmurugan, D., Fun, H. K., Rajan, T. J., & Ramakrishnan, V. T. Two benzoylaminoacridinedione derivatives.	*Acta. Cryst. 56*(9), 1109-1112..(2000).	1.172	11
8	**Jeyakanthan, J.,** Velmurugan, D., Selvi, S., & Perumal, P. T. 1-(2,4-Dinitrophenyl)-3-(2-hydroxyphenyl)-4-methyl-1H-pyrazole.	*Acta. Cryst. 55*(11), 1926-1928(1999).	1.172	5
7	Shanmuga Sundara Raj, S., **Jeyakanthan, J.,** Selvi, S., Velmurugan, D., Fun, H. K., & Perumal, P. T. 1-(2, 4-Dinitrophenyl)-3-(2-hydroxyphenyl)-1H-pyrazole-4-carbaldehyde.	*Acta. Cryst. 55*(10), 1667-1669.(1999).	1.172	4
6	**Jeyakanthan, J.,** & Velmurugan, D. The Crystal and Molecular Structure of 1, 8-Dioxo-9-(o-nitrophenyl)-1, 2, 3, 4, 5, 6, 7, 8-octahydroxanthene.	*Crys ResTech*, *34*(10), 1339-1344.(1999).	1.639	10
5	**Jeyakanthan, J.,** Shanmuga Sundara Raj, S., Velmurugan, D., Fun, H. K., & Murugan, P. Two tetramethylxanthenediones.	*Acta Cryst. 55*(9), 1515-1517.(1999).	1.172	7
4	**Jeyakanthan, J.,** Velmurugan, D., Josephrajan, T. M., & Ramakrishnan, V. T. Water mediated hydrogen bonding network in an acridine carboxamide derivative.	Acta. Cryst. Vol. 55, pp. 384-384. (1999, January).	2.290	Nil
3	**Jeyakanthan, J.,** Velmurugan, D., Panneerselvam, K., Soriano-Garcia, M., Perumal, S., & Chandrasekaran, R. Three diphenyl sulfones.	*Acta. Cryst. 54*(5), 630-633.(1998).	1.172	6
2	**J. Jeyakanthan** & D. Velmurugan. 4-Chlorophyenyl 2, 6-DimethylphenylSulfone.	*Acta. Cryst. C*53, PP: 1344-1345, 1997.	1.172	2

1	**Jeyakanthan, J.,** Saravanan, R., & Mohanlal, S. K. Temperature dependence of core and valence thermal vibrations in germanium.	*Physica Status Solidi* (b. *190*(2), 415-419.(1995).	1.710	Nil

CONTRIBUTION IN BOOK/ CHAPTERS – 18

S. No	Particulars	Publisher and Year
1.	P. Shanmugavel & **J. Jeyakanthan.** Molecular Interactions (ISBN: 8170195116)	Today & Tomorrows Printers and Publishers, 2015
2.	Nachiappan M, Guru R Rao, Richard M, Saritha P, Amala M, Prabhu D, Rajamanikandan S, Chitra JP & **Jeyakanthan J**. Experimental and Computational Methods to Determine Protein Structure and Stability. Frontiers in Protein Structure, Function, and Dynamics (ISBN 978-981-15-5529-9) Pages: 23 - 55.	Springer, USA 2020
3.	Jayashree B, Prajisha J, Raghu R & **Jeyakanthan J.** Synergistic Effects of Hydration Sites in Protein Stability: A Theoretical Water Thermodynamics Approach. Frontiers in Protein Structure, Function, and Dynamics. (ISBN 978-981-15-5529-9) Pages: 187 – 212.	Springer, USA 2020
4.	Balajee R, Saravanan M, **Jeyakanthan J.** Prospects of Covalent approaches in Drug Discovery: An Overview.	Scrivener, USA 2020
5.	Mutharasappan Nachiappan, Ravi Guru Raj Rao, Mariadasse Richard, Dhamodharan Prabhu, Sundarraj Rajamanikandan, Jeyaraj Pandian Chitra and **Jeyaraman Jeyakanthan**. 3D Structural Determination of Macromolecules using X-ray Crystallography Methods. Molecular Docking for Computer-Aided Drug Design.	Elsevier, Netherlands 2020
6.	K. Mohanrasu, R. Guru Raj Rao, M. Sudhakar, Rathinam Raja, **J. Jeyakanthan**, A. Arun. Marine Microbial Pharmacognosy: Prospects and Perspectives. Marine Niche: Applications in Pharmaceutical Sciences	Springer Nature, USA 2020
7.	K. Mohanrasu, R. Guru Raj Rao, V. Ananthi, G. Sivaprakash, G.H. Dinesh, Angelin Swetha, A. Arun & **Jeyakanthan J**. Microbial Bio-Based Polymer Nanocomposite for Food Industry Applications.	Elsevier, Netherlands 2020
8.	Chitra J, Rajendren J, Jeykanthan B, Gopalsamy J, Jeba mercy N, Manikandan, Prasanna Kumari N.K. & **Jeyakanthan J.** Microbes and their products as novel therapeutics in medical applications**,** Bio prospecting of Microbial Diversity. 0020-0255	Elsevier, Netherlands 2020
9.	Mohanrasu K, Guru Raj Rao R, Sivaprakash G, Angelin Swetha T, Abhispa Bora, Balaji P, Arun A. & **Jeyakanthan J.** Bioplastics from Microbial and Agricultural Biomass. Editor: Inamuddin. Applications of Biodegradable Materials and Bioplastics.	John Wiley & Sons, Inc., USA 2021
10.	N. Arul murugan, Chitra Jeyraj Pandian, Jeba Mercy Jeayseelan, S. Muneeswaran, K. Saranraj, K. Muruga Poopathi Raja and **J Jeyaraman.** Computaional Development of Alzheimer's Therapeutics and Diagnostics.	Royal socity of Chemistry, UK 2022

11.	Madhumathi Sanjeevi, Prajna N Hebbar, Natarajan Aiswarya, S Rashmi, Chandrashekar Narayanan Rahul, Ajitha Mohan, **J. Jeyakanthan**, Kanagaraj Sekar. Methods and applications of machine learning in structure-based drug discovery, Advances in Protein Molecular and Structural Biology Methods.	Academic Press, USA 2022
12.	Vijay Nirusimhan, Daniel Andrew Gideon, Abhinav Parashar, Sangavi Jeyachandran, **Jeyakanthan Jeyaraman**, Gowthamkumar Subbaraj and Langeswaran Kulanthaivel. Structural Modelling of *Drosophila melanogaster* Gut Cytochrome P450s and Docking Comparison of fruit fly gut and human cytochrome p450s.	Bentham Science, UAE 2022
13.	Jesucastin Edward, Karthik Sundarsha, **J. Jeyakanthan**, A. Sherlin Rosita, Daniel A. Gideon. Efficacy of synthetic organic molecular inhibitors of TRAF2 and NCK interacting kinase (TNIK) against colorectal cancer	Springer Nature, Singapore 2022
14.	**Jeyaraman Jeyakanthan**, Chitra Jeyraj Pandian, Jeba Mercy Jeayseelan, Sundarraj Rajamanikandan, Dhamodharan prabhu, Ravi Guru Raj Rao, Mutharasappan Nachiappan. An integrative approach to explore potent therapeutic protein targets in multidrug resistant nosocomaial pathogen *Acinetobacter baumannii*. Therapeutic protein targets for drug dicovery and clinical evalution: Bio-crystallography and drug design.	World scientific, 2022
15.	Chitra Jeyraj Pandian, Rajendren Sironmani, **Jeyakanthan Jeyaraman,** Gopal Samy Balakrishnan. Development in Waste Water Treatment Research and Processes. Application of dairy sludge derived products for removal of pollutants from the insustrial effluents: A way to sustainable disposal.	Elsevier, Netherlands 2022
16.	Chitra J and **Jeyakanthan J.** Implications of Immuno-oncology in Immunodiagnostics and Immunotherapy. ISBN: 978-93-5528-175-3.	MJP Publication 2023
17.	Nagarajan, H., Ranganathan, S., **Jeyaraman, J.,** & Chitipothu, S. Antimicrobial Peptides and Antibacterial Antibodies for the Elimination of ESKAPE Pathogens. In ESKAPE Pathogens: Detection, Mechanisms and Treatment Strategies (pp. 435-462).	Springer Nature Singapore 2024
18.	Pandian, C. J., Rajendren, S. M., & **Jeyaraman, J.** Probiogenomics and Genome Annotation in Bifidobacteria and Lactobacilli. In *Industrial Microbiology and Biotechnology: An Insight into Current Trends* (pp. 465-491).	Singapore: Springer Nature Singapore 2024

GENBANK DEPOSITIONS – 26

S. No	Accession No.	Details
1.	MN749550.1	*Staphylococcus aureus* strain U190175 16S ribosomal RNA gene, partial sequence
2.	MN749549.1	*Staphylococcus aureus* strain U190172 16S ribosomal RNA gene, partial sequence

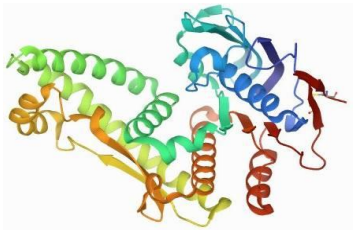
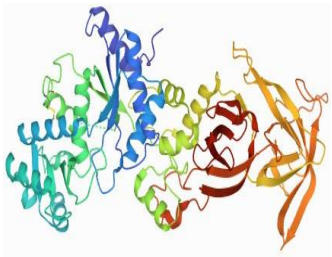
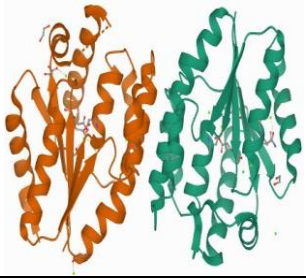
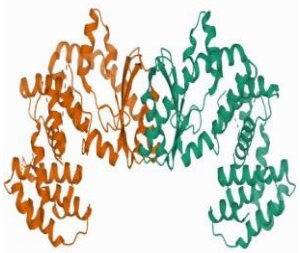
3.	MN749548.1	*Shewanella putrefaciens* strain B190208 16S ribosomal RNA gene, partial sequence
4.	MN749541.1	*Proteus vulgaris* strain P190036 16S ribosomal RNA gene, partial sequence
5.	MN749537.1	*Staphylococcus aureus* strain P190067 16S ribosomal RNA gene, partial sequence
6.	MN749534.1	*Staphylococcus aureus* strain O190017 16S ribosomal RNA gene, partial sequence
7.	MN749533.1	*Enterococcus faecalis* strain P190052 16S ribosomal RNA gene, partial sequence
8.	MN749520.1	*Enterococcus faecalis* strain P190052 16S ribosomal RNA gene, partial sequence
9.	MN749519.1	*Acinetobacter baumannii* strain O190037 16S ribosomal RNA gene, partial sequence
10.	MN744697.1	*Morganella morganii* strain ab1 16S ribosomal RNA gene, partial sequence
11.	MN749522.1	*Citrobacter freundii* strain U190042 16S ribosomal RNA gene, partial sequence
12.	MK820067.1	*Impatiens leschenaultii* voucher ALUH_18 maturase K (matK) gene, partial cds; chloroplast
13.	MK820068.1	*Impatiens leschenaultii* voucher ALUH_18 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast
14.	MK759659.1	*Drosera indica* voucher ALUH_17 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit gene, partial cds; chloroplast
15.	MK759658.1	*Drosera burmannii* voucher ALUH_16 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit gene, partial cds; chloroplast
16.	MT262990.1	*Shigella sonnei* strain O190087 16S ribosomal RNA gene, partial sequence
17.	MT262927.1	*Mycolicibacterium senegalense* strain P190172 16S ribosomal RNA gene, partial sequence
18.	MT261888.1	*Klebsiella sp.* strain P190051 16S ribosomal RNA gene, partial sequence
19.	MT261871.1	*Enterococcus faecalis* strain P190052 16S ribosomal RNA gene, partial sequence
20.	KX022944.1	*Coprinus sterquilinus* isolate JJAA3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
21.	KX022943.1	*Psathyrella candolleana* isolate JJAA2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
22.	KX022942.1	*Psathyrella candolleana* isolate JJAA1 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
23.	FJ804147.1	*Candida tropicalis* NAD(P)H-dependent xylose reductase (xyl1) gene, complete cds

24.	JJSBBCNF_01	*Nocardia farcinica* JJSBBCNF_0, Whole genome sequence
25.	GCA_027920125.1	*Acinetobacter baumannii* JJAB01, Whole genome sequence
26.	GCF_027891115.1	*Pseudomonas aeruginosa* JJPA01, Whole genome sequence

PROTEIN DATA BANK CONTRIBUTIONS (PDB's) - More than 153 structures

Protein Data Bank ID: 5ZDK, 5ZDL, 5ZDH……..etc.,

(**http://www.rcsb.org/pdb/home/home.do**)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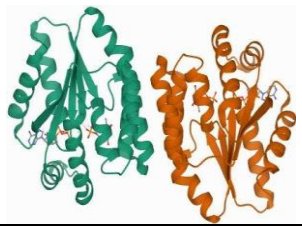	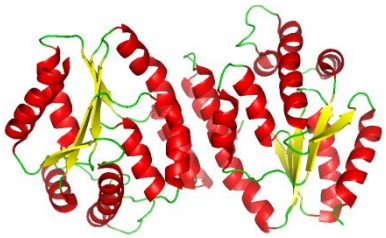		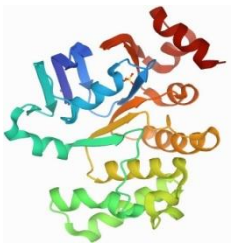
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	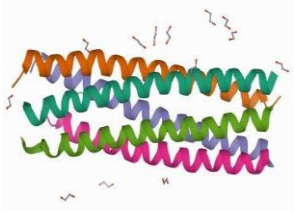	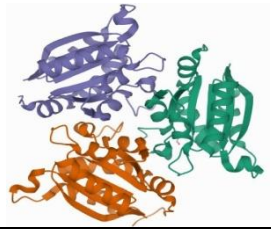	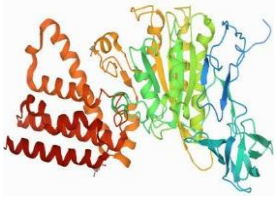
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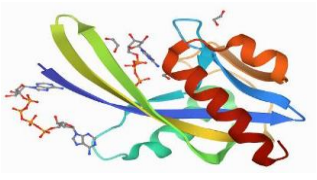	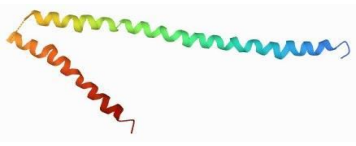	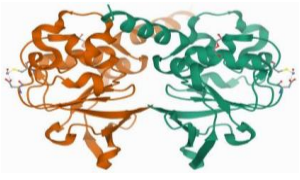	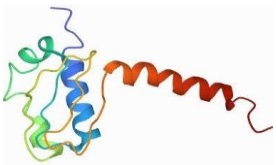
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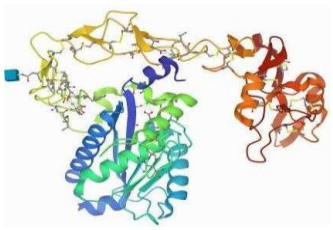	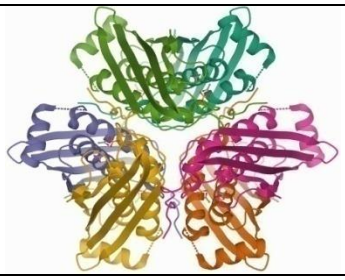		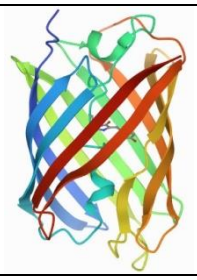
J. Str. Bio, 2010 **PDB ID - 3K7l**	**Acta D, 2010** **PDB ID - 3JQJ**	**J. Bact., 2009** **PDB ID - 3GYX**	**PNAS, 2008** **PDB ID - 2Z1O**

JOURNAL EDITOR/EDITORIAL MEMBER/ REVIEWER

EDITOR/EDITORIAL MEMBER	
PloS ONE	Current Bioinformatics
Frontiers in Physiology	Frontiers in Molecular Biosciences
Frontiers in Physics	Frontiers in Genetics
Combinatorial Chemistry & High Throughput Screening	
REVIEWER	
Acta Crystallographica Sections	ACS Omega
Computational Biology and Chemistry	Gene
Indian Journal of Biochemistry & Biophysics	International Journal of Bioinformatics Research
International Journal of Bioinformatics Research and Applications	Interdisciplinary Sciences
Journal of Molecular Graphics and Modelling	Journal of Biomolecular Structure & Dynamics
Letters in Drug Design & Discovery	Microbial Pathogenesis
Molecular BioSystems	Molecular Biology Reports
Medicinal Chemistry Research	Progress in Biophysics and Molecular Biology, Etc

EXTERNAL THESIS EXAMNIER / EVALUATED – 51

S. No	Name of the candidate	Title	Degree Awarding Institution	Year
1.	Patnam Nagesh	Molecular Modellling Studies, Synthesis and activity studies based on metabolic pathways for diabetes mellitus	Osmania University	2025
2.	Anuja Jain	Gene Expression meta-analysis, lead generation and cellular specificity prediction for Toll like receptors	Jawaharlal Nehru University	2024
3.	Satish Tiwari	Targeting an essential metabolic pathway of Mycobacterium tuberculosis to design new anti-TB compounds	National Institute for Immunology	2023
4.	Kimona Kisten	Strategic application of in silico drug discovery approaches to discover novel TB drugs	University of Kwazulu, Natal college of Health	2023

			Sciences	
5.	Suchitra Surendran	Computer assisted drug design for *Mycobacterium tuberculosis*	University of Kerala	2023
6.	Koyyada praveena	Target identification and multi-target drug designing for *Mycobacterium tuberculosis* H37Rv active infection by Systems Biology approach	University of Hyderabad	2023
7.	Mohammed Ahmad	Structural and biochemical studies of enolase from *Mycobacterium tuberculosis*	Jawaharlal Nehru University	2022
8.	Rajdeep kaur	Computational studies of inhibitors against Aβ aggregation and β-secretase (BACE1) enzyme in Alzheimer's disease	Department of chemistry, Sri Guru Granth Sahib world university	2022
9.	Sambit Dalui	Structural and Functional Characterization of Testis-specific Y encoded-like protein 5: a novel member of NAP histone chaperone superfamily	Jadavpur university	2022
10.	Anirban Dasgupta	Molecular Characterization of human histone H2BK120 Ubiquitin Ligase UBR7	Jadavpur university	2022
11.	Indu	Structural and biochemical studies of a membrane protein Rv2903c from *Mycobacterium tuberculosis*	Jawaharlal Nehru University	2022
12.	Shobhan Kuila	Structural and functional studies of chloride intracellular ion channels	Jawaharlal Nehru University	2022
13.	Anirban Dasgupta	Molecular Characterization of human histone H2BK120 Ubiquitin Ligase UBR7	Jadavpur university	2022
14.	Suresh Palanivel	Evaluation of Cytotoxic Effects and Underlying Mechanisms of Phenolic Compounds on Breast Cancer Cell Lines	Tampere University Finland	2022
15.	M. Mathavan	Comprehensive analysis of Zaire ebolavirus-Human Interaction for Understanding of Disease Mechanism and Drug Re-purposing	Pondicherry University	2021
16.	K. Muthuvel Prasath	Development of novel structure based methods, online database and web servers to predict Superfamily for the Annotation of Twilight Zone Protein Sequences	Bharathidasan University	2021
17.	Anam Ashraf	Dissecting the mechanistic properties of HisI (Rv1606) and the dynamics of Histidine Biosynthesis Enzymes in *in-vivo* infection of *Mycobacterium tuberculosis*	National Institute of Immunology	2021
18.	M. K. Hema	Synthesis, Structural and Biological Studies of Metal-Oxygen Coordinated Complexes	University of Mysore	2020
19.	Rama Krishna Munnaluri	*In silico* strategies in developing new inhibitors against molecular targets in HIV and *Mycobacterium tuberculosis*	Osmania University	2019
20.	Dr. Vineet Mohan Samal	Biophysical Characterisation of ATP Sulfurylase protein from *Mycobacterium*	All India Institute of Medical Sciences	2019

		tuberculosis		
21.	Ballu Srilata	Computer Aided Drug Design, Synthesis and Biological Evaluation of Anti-bacterial Agents against Wild and Resistant Strains of *Staphylococcus aureus*	Osmania University	2019
22.	K. N. Chethan Prathap	Crystal and Molecular Studies of Medicinally Important Heterocyclic Compounds	University of Mysore	2018
23.	S.Chandrasekar	Insights on binding mode of ruthenium based anticancer pro-drug like compound with serum albumin and "The catalyst of oxidative protein folding": A structural prospective	Pondicherry University	2018
24.	Satyaprakash Yadav	Structural and functional of Proliferating Cell Nuclear Antigen from *Leishmania donovani*	All India Institute of Medical Sciences	2018
25.	Ankita Pan	Structural and Functional Characterization of Flavivirus Non-Structural Protein3 (NS3) in solution and atomic and enzymatic insights of vancomycin resistant *Enterococcus faecalis* (V583) alkyl hydroperoxide subunit C	Nanyang Technological University	2018
26.	P. Moorthi	Understanding key events involved in Age dependent Brain region specific alterations of alzheimer's diseaese proteins that influence neurodegeneration and dementia: Neuroprotective Role	Bharathidasan University	2018
27.	Arvind Kumar	Structural and Mechanistic Insights into Mycothiol disulfide reuctase, Mycoredoxin-1 and peroxiredoxin alkyl hydroperoxide subunit E of *M. tuberculosis*	Nanyang Technological University	2017
28.	P. Perumal	Structural and Bioinformatics Characterization of Quorum Sensing Proteins from the outer membrane Enzymes of *S.typhi*	Bharathiyar University	2017
29.	V. Rajni Swamy	Structure investigation of some novel compounds	Madurai Kamaraj University	2017
30.	Nivedita Rai	Dynamics of multitasking DegP and the role of HpHtrA as a therapeutic target: A computational approach on HtrA family Proteins	Pondicherry University	2017
31.	M. Ajitha	Novel algorithms to predict the structure and functions of uncharacterised proteins	Kalasalingam University	2017
32.	Manish Kumar Thakur	Structural and Functional Studies on PTK6, A kinase involved in cancer	University of Mysore	2017
33.	Hiral Murawala	Evaluation of protein Expression pattern during vertebrate appendage regeneration	Maharaja Sayajirao, University of Baroda	2017
34.	T. Arun Kumar	Studies on Laccase production from	Sathyabama	2017

		Pseudomonas species and its application in degradation of azo enzymes	University	
35.	B. Sai Krishna	Insilico Drug design and synthesis of potential antimalarial agents	University college of science	2016
36.	Ms. Jemmy Christy. H	Immunoinformatics approach for the study of HIV-1 isolated from Indian population	Sathyabama University	2016
37.	B.R. Anitha	Crystal and molecular structure studies of some chalcone derivatives in medicinal interests	University of Mysore	2016
38.	Enock Kiage Oirere	Isolation, Structural characterization and Anticancer potential of Bioactive Compounds from Alipina purpurata: An Invitro and Insilco Approach	Karpagam University	2016
39.	Kotapati Kasi Viswanath	Molecular Cloning, Functional Analysis and Structural Prediction of Lipoxygenase from Eleusine coracana seedlings	Pondicherry University	2016
40.	Lavanya P	Investigations on the role of Non-Conventional Hydrogen bonds and its impact on stability and specificity of b-lactamases and Penicillin Binding Protein	Vellore Institute of Technology	2016
41.	Divyani Paul	Characterisation of p73 and Insilico based Drug Design for stabilization of p53 mutants	All India Institute of Medical Sciences	2016
42.	M. Kannan	Ovarian Cancer regulation by ID1 and ARHI Proteins: A structural Perspective	Pondicherry University	2015
43.	S. Kalaiselvi	Elucidating the plausible mechanism for the adriamycin induced lipotoxicity leading to type2 diabetes, cardiomyopathy, and reproductive toxicity: A remedy through Costus pictus supplementation	Bharathidasan University	2015
44.	P. Manoj Kumar	Structural understanding of Protein Function in relation to prophage protein yage	Madurai kamaraj University	2014
45.	K. Bhargavi	New cancer therapeutics- Inhibitors for novel BCl2 mitochondrial protein to initiate apoptosis	Osmania University	2013
46.	L. Yamini	Computer aided drug design and synthesis of DHFR inhibitors	Osmania University	2013
47.	A. Maheswari	*In-silico* assessment of interrelationship between protein folding and protein stability	Bharathidasan University	2013
48.	V. Bhavani Prasad	Computational Analysis of Claudin1 in different pathological conditions: A molecular dynamics approach	Vellore Institute of Technology	2013
49.	C. Rani	In-vitro evaluation and In-silico analysis of Novel Drug leads and targets from sponge associated marine bacteria	Bharathidasan University	2012
50.	C.S. Vinobha	Comparative Analysis on Large Hydrophobic Residues and Small Hydrophobic Residues in different	Bharathidasan University	2012

		organisms		
51.	R. Sathish Kumar	Studies on the effect of isolated and characterised phytochemical compounds of Enicostemma Littorale Blume on the cancer target	Bharathiyar University	2011
52.	K. Ganesan	Structure based in-silico tool development for the annotation of twilight zone protein sequences	Bharathidasan University	2011

CONFERENCE PRESENTATIONS: 268

Presentation in International Level events: 108
Presentation in National Level events: 160

INAUGURAL/VALEDICTORY ADDRESS DELIVERED: 34

S. No	Title of Conference/ Seminar/ Workshop etc.	Organizer, with Place	Date(s)	Role	National / International
1.	Biochemistry Exhibition BYOKEM "X" BIT	Sri Saradha Niketan College for Women, Amaravathipudur	September 09, 2012	Inaugural Address	N
2.	Karpagam University Annual Research Congress KUARC-2014	Department of Biochemistry and Bioinformatics Karpagam University Coimbatore	5th December, 2014	Keynote Speaker	N
3.	National Seminar on Biocheminformatics	Department of Bioinformatics, Bharathiar University, Coimbatore	February 26th – 27th, 2016	Inaugural Address	N
4.	International Workshop on Data Science and Analytics	Department of Computer Science, Alagappa University, Karaikudi	27th September, 2016	Felicitation address	I
5.	National Workshop on Computational Analysis of Molecular Data	School of Bio Sciences and Technology, VIT University, Vellore	17th November, 2016	Keynote Address	N
6.	Winter Schools organized by National Centre of	Thiagarajar College, Madurai	21st November, 2016	Inaugural Address	N

	Excellence (MHRD)				
7.	Recent Trends in Microbiology (RTM'2016)	Department of Microbiology, Alagappa University, Karaikudi	20th – 21st December, 2016	Inaugural address	I
8.	Two – Day Workshop on ICT Based Innovative Teaching Methods in Business Studies	Department of Commerce and International Business & Higher Education Innovation Cell, Alagappa University, Karaikudi	24th January, 2017	Felicitation address	N
9.	One day Training Program on "LATEX" – A Mathematical Document Preparation Tool	Department of Mathematics &University Business Collaboration Centre, Alagappa University, Karaikudi	10th February, 2017	Special Address	N
10.	Awareness Program on First Aid and Basic Life Support	Alagappa University Health Care Centre & Alagappa University College of Physical Education, Alagappa University, Karaikudi	10th February, 2017	Felicitation address	N
11.	International Conference on Mathematical Modeling and Computational Methods in Science and Engineering	Ramanujan Centre for Higher Mathematics & Department of Mathematics, Alagappa University, Karaikudi	22nd February, 2017	Felicitation address	I
12.	Two-day Workshop on Career Prospects & Developments in Computer Science	University Business Collaboration Centre & Dept. of Computer Science, Alagappa University,	27th February, 2017	Felicitation address	N

		Karaikudi			
13.	Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT)	Dept. of Physics & Business Collaboration Centre & Consultancy Cell, Alagappa University, Karaikudi	2nd March, 2017	Felicitation address	N
14.	Two day training Programme on "Campus Interview Skills"	Equal Opportunity and Placement cell, Alagappa University, Karaikudi	2nd March, 2017	Felicitation address	N
15.	Three Days Zonal Level Orientation Training Programme for YRC Volunteers and YRC Programme Officers	Alagappa University & Alagappa Chettiar College of Engineering and Technology	22nd March, 2017	Felicitation address	N
16.	National Conference on Futuristic Materials (NCFM-2017)	Department of Physics, Alagappa University, Karaikudi	27th March, 2017	Felicitation address	N
17.	Three Days Zonal Level Orientation Training Programme for YRC Volunteers and YRC Programme Officers	Youth Red Cross, Alagappa University & Alagappa Chettiar College of Engineering and Technology, Karaikudi	22nd March, 2017	Valedictory address	N
18.	Two-day training Programme on Campus Interview Skills	Equal Opportunity and Placement cell, Alagappa University, Karaikudi	02nd March, 2017	Felicitation address	N
19.	Business Oriented Hands-on Training on Analytical Instrumentation (HI-BOAT)	Dept. of Physics & Business Collaboration Centre & Consultancy Cell, Alagappa University, Karaikudi	02nd March, 2017	Felicitation address	N

20.	Two-day Workshop on Career Prospects & Developments in Computer Science	University Business Collaboration Centre & Dept. of Computer Science, Alagappa University, Karaikudi	27th February, 2017	Felicitation address	N
21.	UGC Sponsored One Day Orientation Programme on "Know Your Rights – Empower Yourself"	Department of History and Alagappa Institute of Skill Development, Alagappa University, Karaikudi	13th September, 2017	Valedictory address	N
22.	National Theme on University – Industry Interface 2017 (NTM U2I-2017)	Industry and Consultancy Cell & Department of Physics	20th September, 2017	Felicitation address	N
23.	World Animal Day Celebration	Department of Animal Health and Management	4th October, 2017	Thematic address	N
24.	Four Days National Workshop Cum Short Term Training Programme on Cultivation of Mushroom and Business Commercialization	Department of Botany and University Business Collaboration Centre	8th January, 2018	Felicitation address	N
25.	Arise Youth Empowerment Programme	National Service Scheme and Swami Vivekananda Centre for Higher Research and Education & Heartfulness Institute, Chennai (Karaikudi Centre)	12th January, 2018	Inaugural address	N
26.	2nd International Conference on Recent Trends in Microbiology (RTM - 2018)	Department of Microbiology, Alagappa University	12th January, 2018	Valedictory address	I

27.	Two-day orientation programme on Marketing Strategies for Business Excellence (MSBE-2018)	Department of Commerce and University Business Collaboration Centre	09th February, 2018	Felicitation address	N
28.	National Trends in Skill Informatics (NCRTI - 2018)	Alagappa Institute of Skill Development	20th March, 2018	Valedictory address	N
29.	National Conference on Conservation and Sustainable Development of Marine Resources (CASDOMAR – 2018	School of Marine Sciences, Department of Oceanography & Coastal Area Studies	22nd March, 2018	Inaugural address	N
30.	Idhayam Merit Excellence Awards-2018	Rotary Club of Karaikudi and Rotary Club of Virudhunagar	24th July, 2018	Motivational Address	N
31.	Inauguration of Life Science Association Bio Cogniza 2K18 &Herbal	Department of Biotechnology & Microbiology, Vidhyaa Giri College of Arts and Science, Puduvayal, Karaikudi	21st August, 2018	Inaugural Address	N
32.	1st two days National Workshop on “indigenous Cow Management and their Value-Added Products”	Department of Animal Health and Management, Alagappa University	18th December, 2018	Felicitation	N
33.	4th Batch of MBA (Logistics Management) Inauguration & Orientation Programme	Department of Logistics Management, Alagappa University	8th July, 2019	Felicitation Address	N
34.	World Habitat Day	Department of Botany, Alagappa University	16th October, 2019	Special Address	N

J. Jeyakanthan