



**Dr. J. JEYAKANTHAN**  
**Senior Professor and Head**

**Contact**

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**Academic Qualifications:**

<b>Year of Passing</b>	<b>Degree</b>	<b>University / Institute</b>
2021-22	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

**Teaching Experience: 13 Years**

<b>Position</b>	<b>Institute/University</b>	<b>Period</b>
Senior Professor and Head	Department of Bioinformatics	April 2020 - till date*
Professor and Head	Department of Bioinformatics	March 2010 - March 2020

**Research Experience: 32 Years**

<b>Position</b>	<b>Institute/University</b>	<b>Period</b>
Senior Professor and Head	Department of Bioinformatics	April 2020 – Till date*
Professor and Head	Department of Bioinformatics	March 2010 – March 2020
Research Scientist	SPring-8, Japan	May 2007 – March 2010
Researcher	RIKEN Harima Institute, SPring-8, Japan	June 2003 – May 2007
PDF	Indian Institute of Science, Bangalore	January 2000 – May 2003
CSIR SRF-JRF	University of Madras, Chennai	June 1995 – December 1999

**Academic and Additional Responsibilities**

<b>Administrative Authority Position</b>		
2016 - 19	:	Member of Syndicate, Alagappa University (Nominated by Governor of Tamil Nadu)
2010 - *	:	Senate, Alagappa University
<b>Academic position</b>		
2010 - *	:	Head of the Department, Department of Bioinformatics, Alagappa University
2023 - *	:	Dean, Faculty of Science, All Science Departments, Alagappa University
2015 - *	:	Chairperson, School of Biological Sciences, Alagappa University
2019 - *	:	Director, Alagappa University Ranking Cell (AURC)
2022 - *	:	Project Coordinator and PI, DBT-Bioinformatics and Computational Biology Center (BIC) and National Network Project (NPP)
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
2010 - *	:	Chairman, Board of Studies of Bioinformatics, Alagappa University

**Additional Responsibility:**

2022 - \*: Ambassador, The Association of Commonwealth Universities (ACU), Alagappa University

2022 - \*: Member, Project Monitoring Unit Academic Core Committee of RUSA 2.0

2021 - \*: Member, Guru Dakshata – UGC Quality Mandates

2021 - \*: Member, Paramarsh - UGC Quality Mandates

2021 - \*: Member, CARE/STRIDE - UGC Quality Mandates

2018 - \*: Coordinator, Tamil Nadu State University Rating Framework (TANSURF), Alagappa University

2016 - \*: Member, Research Advisory Committee (RAC), Alagappa University

2016 - \*: Academic staff, Anti-Ragging Committee, Alagappa University

2010 - \*: Member, Website Maintenance Committee, Alagappa University

2010 - \*: Member, Standing Committee on Academic Affairs, Alagappa University

**Completed:**

2022 - 23: Coordinator, Higher Education Best Practice Cell, Alagappa University

2022 - 24: Member, Internal Quality Assurance Cell (IQAC)

2019 - 21: Director, Center for Internal Quality Assurance Committee, Directorate of Online Programmes, Alagappa University

2019 - 20: Chairman, Board of Studies of Botany

2019 (Mar – Nov): Head of the Department, Department of Botany, 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, Finance Committee

2018 - 19: Member, Governing Council for DDE, Alagappa University

2018 - 19: Member, Board of Governors of RUSA 2.0, Alagappa University

2017 - 19: Coordinator, National Institutional Ranking Framework Cell

2016 - 19: Member, Purchase Committee of Alagappa University

2015 - 17: Directorate of Collaborative Programmes, Alagappa University

2012 - 15: Member, Research Advisory Committee, Alagappa University

2012 - 16: Director Centre for International Relations, Alagappa University

2012 - 13: Coordinator, Career Guidance & Counseling Cell, Alagappa University

2010 - 16: Member, Internal Quality Assurance Cell (IQAC)

### Areas of Research

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

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

#### Current Research focus

➤ **Structural and Functional studies on vital drug targets**

- ❖ My research focuses on Structural Biology, Computer-Aided Drug Design, and Bio-Computing. I have 28 years of Research expertise in Structural and Functional aspects of model organisms *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 (which shares similarity to the human genome) and disease-associated targets such as Cancer (Pak1), Diabetes (SIRT4), Chikungunya (nsP2 Protease), Dengue (STAT2), Filariasis (lysine and peptidoglycan biosynthesis proteins of *Wolbachia* endosymbiont of *Brugiamalayi*), Malaria (*Plasmodium falciparum*), TB (*Mycobacterium tuberculosis*), **SARS-CoV-2 (Covid-19)**, clinical isolates of ESKAPE Pathogens, *Serratia marcescens* and *Nocardia Species* (nosocomial infections).

➤ **Development of Tools and databases**

- ❖ Web based search engines for analyzing macromolecular interactions

### Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	PDF	04	04
	Ph.D.	09	11
	M.Phil.	08	-
Project	PG	39	-
	UG / Others	10	-

### Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
188	93	04	148	15

**Cumulative Impact Factor (as per JCR)** : 688.395  
**h-index** : 28  
**i10 index** : 76  
**Total Citations** : 2827

## Funded Research Projects

### Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DBT	2023	Till date	DBT-National Network Project	144.56
2	DBT	2022	Till date	DBT – Bioinformatics and Computational Biology Center	183.8
3	DST INDO-TAIWAN	2020	2023	Structural and functional insights of potential anti-malarial drug targets of G6PD and 6PGD from <i>Plasmodium falciparum</i> (3D7)	73.72
4	TANSCHE	2021	2024	Structural and functional characterization of phosphotransacetylase (PTA) and Acetate Kinase (ACKA) from Mycobacterium tuberculosis H3R7Rv using <i>in silico</i> and <i>in vitro</i> studies	29.81
5	ICMR	2022	2024	Computational and functional characterization of peptide inhibitors disrupting LIMK2-cofilin interaction as a novel therapeutic target towards Glaucoma	29.45
6	RUSA 2.0 (Phase -II)	2022	2023	Translational Health Research for Human Animal and Plant systems (TBRP)	15.63
7	ICMR	2023	2024	Molecular Insight and <i>In vitro</i> validation of Novel lead molecules against Sh3bp2 and kit protein	8.16

### Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA 2.0 (Phase -I)	2019	2021	Translational Health Research for Human Animal and Plant systems (TBRP)	18.14
2	DAE-BRNS	2018	2021	Design, Synthesis and <i>in vitro</i> anticancer activity of novel and potent signaling influences therapeutic outcome in pancreatic cancer vated kinase 1 (Pak1) inhibitors	30.33
3	ICMR	2017	2020	Structural insights of SIRT4 protein from <i>Homo sapiens</i> to identify inhibitors for the treatment of Type-II diabetes	33.34
4	DST-SERB	2016	2019	Identification of Potential Anti-Filarial drug targeted enzymes Wbm0441, Wbm0042 from Wolbachia endosymbiont <i>Brugia malayi</i>	69.38

5	<b>UGC-RA</b>	2016	2018	Structural and Functional Insights of potential therapeutic dengue fever target STAT2 protein from <i>Homo Sapiens</i>	37.8
6	<b>DBT</b>	2015	2018	Development of Web Based Search Engines for the Analyses of Protein interactions with Nucleotides, Fatty Acids and Buffers	13.81
7	<b>DBT-Twin</b>	2014	2017	Identification of novel drug..... of the pathogen (TWIN Program)	73.69
8	<b>DST</b>	2013	2016	Structural and Functional Studies of Purine Biosynthesis complex from <i>Pyrococcus horikoshii</i> OT3	48.98
9	<b>DBT-Twin</b>	2013	2016	Structural and Functional Studies of Translation Initiation factors from <i>Pyrococcus horikoshii</i> OT3	77.00
10	<b>DBT</b>	2012	2015	Structure determination of CPS and ATCase of <i>Thermus thermophilus</i> HB8 and identification of potential inhibitors	32.16
11	<b>DBT</b>	2012	2015	Structural and Functional analysis of Orotate Phosphoribosyl transferase (TTHA1742) and Dihydroorotate Dehydrogenase (TTHA0779) from <i>Thermus thermophilus</i> HB8	50.25
12	<b>UGC</b>	2012	2015	Structure and functional studies on PH0140 protein from <i>Pyrococcus horikoshii</i> OT3	12.903
13	<b>DBT-Twin</b>	2010	2013	The use of biodiversity as a ..... molecular targets of Tuberculosis	83.49

#### Other Fund Received as Research Mentor

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	ICMR - SRF	2022	2023	Structural and Functional Insights on Anti-Filarial Drug targeted enzymes using <i>in silico</i> and <i>in vitro</i> approach	4.77
2	ICMR - SRF	2022	2024	Computational and Experimental Characterization of Therapeutic Protein Targets in <i>Acinetobacter baumannii</i>	9.55
3	ICMR - SRF	2022	2024	Structural studies on polyamine biosynthesis enzymes	9.55

4	ICMR - RA	2022	2024	Three-dimensional structure determination of Bacterial DNA Adenine Methyltransferase from <i>Acinetobacter baumannii</i> to be used as drug targets for designing antibiotics	13.2
5	ICMR - RA	2022	2024	Structural and Functional Insights of Vancomycin Resistant Protein VanR from <i>Enterococcus faecium</i> using In vitro and in silico Approach	13.2
6	UGC Kothari Fellow	2022	2024	Investigation of potential inhibitors for alpha linolenic acid (ALA) metabolism in the human malaria parasite	20.96
7	ICMR (SRF)	2020	2022	Experimental and Computational studies on Proteins involved in Peptidoglycan biosynthesis pathway from <i>Wolbachia</i> Endosymbiont of <i>Brugia malayi</i>	09.472
8	ICMR (SRF)	2019	2021	Structural insights mechanism of type II diabetes proteins from <i>homo sapiens</i> to identify potential inhibitors computational and biochemical studies	08.80
9	ICMR (SRF)	2018	2020	Structural and functional elucidation and inhibitors identification for SMATase from <i>Serratia marcescens</i> to overcome antibiotic resistance	08.97
10	UGC (OBC)	2016	2021	Transcriptional Regulation by p21-Activating kinase-1 with an Agonist RUNX3 and Antagonist peptides modulating Pancreatic Cancer: A Structural and Computational approach	19.06
11	UGC (MANF)	2014	2019	Structural and functional studies on Transcriptional regulatory proteins from <i>Thermus thermophilus</i> HB8 and <i>Pyrococcus horikoshii</i> OT3 - In silico and in vitro studies	18.16

### Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	Schrödinger, USA	2011	Till date	Computer Aided Drug Design	Collaboration and skill training for Research Scholars and Students
2	University/ Institution	2012	2016	Computer Aided Drug Design	0.60

3	GE Health care	2012	Till date	Protein Purification and Downstream Bioprocessing	Collaboration and skill training for Research Scholars and Students
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### Others

S. No	Agency	Period		Scheme/Research Support	Budget (Rs. In lakhs)
		From	To		
1	DST	2018	Till date	DST-FIST (Fund for Improvement of S&T Infrastructure in Universities and Higher Educational Institutions) <b>Level – I</b>	62
2	DST	2017	Till date	DST-PURSE Programme (Phase 2) – All Science Departments	700
3	UGC	2013	2018	UGC Innovative Programme – PG Diploma in Structural Pharmacogenomics (Post M.Sc. – One year Course)	54 + 2 Assistant Professor Salary for 5 yrs

### Distinctive Achievements / Awards

1. Outstanding Researcher award, Alagappa University, Karaikudi (2022)
2. Tamilnadu Scientist Award (TANSA) by Tamilnadu State Council for Science and Technology (2020)
3. MHRD – LEAP award by NIT-Trichy & NTU-Singapore (2019)
4. UGC Research Award (2016)
5. Fellow of Academy of Sciences, Chennai (2015)
6. Research award by Marquis (2007)
7. Research Scientist (2003-2010) –RIKEN Japan; NSRRC Taiwan; Spring-8 Japan
8. Post Doctoral Fellowship – DST, DBT and IRPHA (2000-2003)
9. IUCr Young Scientist (1999)
10. Young Scientist Travel Award by DST and UNESCO (1999)
11. Research Fellow award by CSIR (1997)

### Events organized in leading roles and fund generated from various agency (Total Rs. 55.13 Lakhs)

Number of Seminars / Conferences / Workshops / Events organized: 22

1. International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD'2022) Nov. 21<sup>st</sup> -25<sup>th</sup>, 2022, Alagappa University, Karaikudi, Tamil



Nadu, India.

2. E-Learning Program on “BIOINFORMATICS AS CARTOGRAPHIC TOOL IN DRUG DISCOVERY”, May. 19<sup>th</sup> -30<sup>th</sup>, 2020, Alagappa University, Karaikudi, Tamil Nadu, India
3. International Conference on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (ICSBCADD’2019), Dec. 11<sup>th</sup> -13<sup>th</sup>, 2019, Alagappa University, Karaikudi, Tamil Nadu, India.
4. International Conference on Innovative and Emerging Trends in Botany (ICIETB-2019), Nov. 6<sup>th</sup> -7<sup>th</sup>, 2019, Alagappa University, Karaikudi, Tamil Nadu, India.
5. 11<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD’2019), Feb. 12<sup>th</sup>-15<sup>th</sup>, 2019, Alagappa University, Karaikudi, Tamil Nadu, India.
6. 10<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD’2018), Feb. 20<sup>th</sup>-23<sup>rd</sup>, 2018, Alagappa University, Karaikudi, Tamil Nadu, India.
7. 9<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD’2017), Feb. 14<sup>th</sup>-17<sup>th</sup>, 2017, Alagappa University, Karaikudi, Tamil Nadu, India.
8. Fire and Safety Awareness Camp for our University Students and Staff members, Oct. 19<sup>th</sup>, 2016.
9. Eye Camp for Faculty members, Administrative Staffs and Students of our University, Oct. 5<sup>th</sup>, 2016.
10. World Habitat Day, Oct. 03<sup>rd</sup>, 2016, Alagappa University, Karaikudi, Tamil Nadu, India.
11. International Conference on Recent Trends in Biosciences-2016 (ICRTB-2016), Apr. 07<sup>th</sup> - 09<sup>th</sup>, 2016, Alagappa University, Karaikudi, Tamil Nadu, India.
12. 8<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD’2016), Feb. 16<sup>th</sup>-19<sup>th</sup>, 2016, Alagappa University, Karaikudi, Tamil Nadu, India.

13. World Habitat Day, Oct. 15<sup>th</sup>, 2015, Alagappa University, Karaikudi, Tamil Nadu, India.
14. 7<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2015), Feb. 24<sup>th</sup>-27<sup>th</sup>, 2015, Alagappa University, Karaikudi, Tamil Nadu, India.
15. World Creativity and Innovation Day, Apr. 21<sup>st</sup>, 2014, Alagappa University, Karaikudi, Tamil Nadu, India.
16. 6<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2014), Feb. 18<sup>th</sup>-21<sup>st</sup>, 2014, Alagappa University, Karaikudi, Tamil Nadu, India.
17. 5<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2013), Feb. 19<sup>th</sup>-22<sup>nd</sup>, 2013, Alagappa University, Karaikudi, Tamil Nadu, India.
18. Career Guidance and Soft Skill training, Oct. 29<sup>th</sup>, 2012, Alagappa University, Karaikudi, Tamil Nadu, India
19. 4<sup>th</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2012), Feb. 20<sup>th</sup>-23<sup>rd</sup>, 2012, Alagappa University, Karaikudi, Tamil Nadu, India.
20. National Youth day, Jan. 12<sup>th</sup>, 2012, Alagappa University, Karaikudi, Tamil Nadu, India.
21. World water day celebration, Mar22<sup>nd</sup>, 2011
22. 3<sup>rd</sup> National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2010), Dec. 20<sup>th</sup>-22<sup>nd</sup>, 2010, Alagappa University, Karaikudi, Tamil Nadu, India.

## **Events Participated**

**Conferences / Seminars / Workshops: 241**

## **Overseas Exposure / Visits**

- National Synchrotron Radiation Research Centre, Taiwan 05<sup>th</sup> -09<sup>th</sup> December, 2017
- Osaka University and RIKEN SPring-8, Japan 22<sup>nd</sup> -30<sup>th</sup> June, 2014

- Osaka University and RIKEN SPring-8, Japan 02<sup>nd</sup> -08<sup>th</sup> December, 2012
- Osaka University and RIKEN SPring-8, Japan 09<sup>th</sup> -16<sup>th</sup> December, 2011
- Osaka University and RIKEN SPring-8, Japan 22<sup>nd</sup> March- 30<sup>th</sup> May, 2010

## Membership in

### Professional Bodies

1. Member in American Crystallographic Association
2. Vice-President & Life Member, Bioinformatics and Drug Discovery Society (BIDDS)
3. Member in British Crystallographic Association
4. Executive Committee Member in Indian Crystallographic Association
5. Life Member, Indian Science Congress Association
6. Life Member, Chemical Research Society of India
7. Life Member, Society of Biological Chemists, India
8. Life Member, Biotech Research Society, India
9. Member in the World Directory of Crystallographers

### Advisory Board

### Academic Bodies in Other Institutes/ Universities

1.	2022 - *	:	Distinguished Adjunct Faculty, Karpagam Academy of Higher Education, Coimbatore
2.	2022 - *	:	Member, Board of Studies in Department of Bioinformatics, Bishop Heber College, Bharathidasan University, Trichy.
3.	2022 - *	:	Member, Board of Studies in Department of Bioinformatics, Bharathidasan University, Trichy.
4.	2022 - *	:	Member, Board of Studies in Department of Bioinformatics, University of Madras.
5.	2020 - *	:	Member, Board of Studies in Department of Bioinformatics, School of Chemical and Biotechnology, SASTRA Deemed University, Thanjavur.
6.	2019 - *	:	Member, Research Advisory Committee, Karpagam Academy of Higher Education, Coimbatore
7.	2018 - *	:	Member, Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.

### Academic Bodies Completed

1.	2019 - 21	:	Local Program Planning & Management Committee (LPPMC), Bharathiar University, Coimbatore
2.	2019	:	Board of Studies of Botany, Alagappa University.

	(Mar - Nov)		
3.	2018 - 21	:	Research Committee, Bharathidasan University, Trichy
4.	2018 - 2021	:	Board of Studies in Environmental Biotechnology, Bharathidasan University, Trichy.
5.	2017 - 19	:	Academic Council, Thassim Beevi Abdul Kader College for Women, Ramanathapuram
6.	2015 - 18	:	Standing Committee on Academic Affairs, Bharathidasan University, Trichy.
7.	2015 - 20	:	SAP implementation and governance of in Department of Physics, Punjab University, Chandigarh
8.	2015 - 18	:	Board of Studies in Bioinformatics and Information Technology, Thiruvalluvar University, Vellorarche.
9.	2015 -18	:	Board of Studies in Bioinformatics (UG, PG & PG Diploma), Bharathidasan University, Trichy.
10.	2015 - 17	:	Board of Studies in Bioinformatics, Bharathiar University, Coimbatore.
11.	2014 -17		Board of Studies in Faculty of Bio and Chemical Engineering, Sathyabama University, Chennai.
12.	2013 - 16		Board of Studies of Bioinformatics (Bharathidasan University), Holy Cross College, Trichy.
13.	2012 - 15		Board of Studies of Bioinformatics, Periyar University, Salem.
14.	2012 - 15		Board of Studies of Physics, V.H.N.S.N. College, Virudhunagar.

### Resource persons in various capacities

Number of Invited / Special Lectures delivered: 241

### Others

1. No. of PhD Thesis evaluated: 41
2. No. of PhD Public Viva Voce Examination conducted: 20

### Recent Publications

1. 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). (IF: 5.545)
2. 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) (IF: 4.996)

3. 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) (IF: 4.94)
4. Nagarajan, H., Samdani, A., Umashankar, V., & **Jeyakanthan, J.** (2022). 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) (IF: 3.686)
5. Nirusimhan, V., Andrew Gideon, D., Parashar, A., Jeyachandran, S., **Jeyaraman, J.**, Subbaraj, G., & Kulanthaivel, L. (2022). Structural Modeling of *Drosophila melanogaster* Gut Cytochrome P450s and Docking Comparison of Fruit Fly Gut and Human Cytochrome P450s. *Curr. Drug Metab.* (2022) (IF: 3.731)
6. Alexpandi, R., Gendrot, M., Abirami, G., Delandre, O., Fonta, I., Mosnier, J., **Jeyaraman, J.**, & Veera Ravi, A. Repurposing of doxycycline to hinder the viral replication of SARS-CoV-2: From in silico to in vitro validation. *Front. Microbiol.*, (2022). (IF: 5.64)
7. 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 Biochemistry* (2021) (IF: 4.429)
8. 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*, 27(10):gaab059, (2021). (IF: 4.025)
9. 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). (IF: 4.475)
10. Rahul Kanumuri, Aruna Kumar Chelluboyina, Jayashree Biswal, Ravichandran Vignesh, Akkanapally Venu, Vaishnavi B, Leena DJ, **Jeyakanthan Jeyaraman**, Ganesan Kumaresan, Gopala Krishna Aradhyam, and Ganesh Venkatraman, Suresh Rayala. Small peptide inhibitor from the sequence of RUNX3 disrupts PAK1-RUNX3 interaction and abrogates its phosphorylation dependent oncogenic function, *Oncogene*, 40(34):5327-5341, (2021). (IF: 9.867)

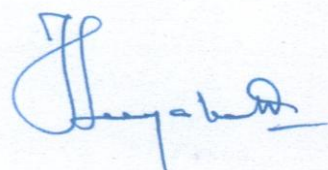
11. Mohanrasu, K., Guru Raj Rao, R., Dinesh, G. H., Zhang, K., Sudhakar, M., Pugazhendhi, A., **Jeyakanthan, J.**, Ponnuchamy, K., Govarathanan, M., & Arun, A. Production and characterization of biodegradable polyhydroxybutyrate by *Micrococcus luteus* isolated from marine environment. *Int J Biol Macromol.*186, 125–134 (2021) (IF: 6.953)
12. Richard Mariadasse, Raji Rajmichael, Abhisek Dwivedy, Mathimaran Amala, Mohammed Ahmad, Nachiappan Mutharasappan, Bichitra K. Biswal and **J Jeyakanthan**. Characterization of putative transcriptional regulator (PH0140) and its distal homologue. *Cell Signal*, 84:110031 (2021). (IF: 4.315)
13. Arul MN, Kumar S, **Jeyakanthan J** & Srivastav V. Searching for target-specific and multi-targeting organics for Covid-19 in the Drugbank database with a double scoring approach. *Sci Rep* 10(1):19125, (2020). (IF: 5.133)
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