



Dr. J. Joseph Sahayarayan
Assistant Professor

Contact

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Academic Qualifications:

Degree	Year of Passing	University / Institute
M. Sc. (Biotechnology)	April-2004	Bharathidasan University
Ph. D (Biotechnology)	November-2010	Bharathidasan University

Teaching Experience: 8.6 Years

Designation	Institution	Department	Duration
Assistant Professor	Alagappa University, Karaikudi	Bioinformatics	Aug 2015 to till date
Assistant Professor	St. Joseph Groups of Institutions Dar Es Salaam, Tanzania.	General Engineering	May 2012 to March 2013
Assistant professor	RVS College of Arts and Science college, Karaikal, Pondicherry.	Biochemistry and Microbiology	June 2010 to March 2012

Research Experience: 15 years

Additional Responsibilities

S. No.	Position (Department level)
1.	Member, Purchase Committee
2.	Member, Examination Board
3.	Co-ordinator, Mentor/Mentee Report
4.	Co-ordinator, Academic Audit [IQAC]
5.	Co-ordinator, Alumni and Parent Teacher Association
6.	Member, Research Committee
7.	Member, Curriculum Development
8.	Member, Time Table Preparation
9.	Member, Department level External exam evaluation
10.	Co-ordinator, Vivekanandh Cadet Crops/Employability Skills/ Career Guidance
11.	Co-ordinator, Azagu/ Department magazine and e magazine

Areas of Research

Plant Bioinformatics, Next Generation sequence in plant system and Computational Biology.

Research Supervision / Guidance

	Program of Study	Completed	Ongoing
Research	Ph.D.,	-	2
	M.Phil.,	1	-
Project	M.Tech.,	-	-
	M.Sc.,	14	-
	P.G.D.S.P.	1	-
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
20	15	1	10	-

Cumulative Impact Factor (as per JCR)	:	2.53
h-index	:	5
i10	:	3
Total Citations	:	132

Funded Research Projects

Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	AURF Start up Grant	2018	2020	Isolation, structural elucidation and biological properties of secondary metabolites from <i>Mucuna pruriens</i> and their <i>In Silico</i> studies	1,00,000/-

On-going Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA	2019	2020	Computational defensin profiling, chemical synthesis and assessment of bioactivity in <i>Cucumis anguria</i> L. against antibiotic resistant New Delhi β lactamase producers	First Installment 4,80,000/-

Distinctive Achievements / Awards

University Research Fellowship (Bharathidasan University) - (Jan 2007 – Dec 2009)

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

- Organizing Committee Member, International Conference on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" 2019.
- Organizing Committee Member, 11th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" and 2nd Annual Meeting of Bioinformatics and Drug Discovery Society [BIDDS] – 2019.
- Organizing Committee Member, 10th National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" and 1st Annual Meeting of Bioinformatics and Drug Discovery Society [BIDDS] – 2018.
- Organizing Committee Member, 9th National Symposium Cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD-2017), 14th -17th Feb, 2017.

- Organizing Committee Member, 8th National Symposium Cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD-2016), 16th -19th Feb, 2016.

Events Participated (optional)

Conferences / Seminars / Workshops:

1.	Online Short term skill training programme on Python: Beginners Tutorial organized by Entrepreneurship, Innovation and Career Hub, Alagappa University, Karaikudi, from 11.05.2020 to 17.05.2020 under the aegis of MHRD RUSA 2.0 Scheme.
2.	Online Short term skill training programme on Campus to Corporate A bridge Course for Corporate World organized by Entrepreneurship, Innovation and Career Hub, Alagappa University, Karaikudi, from 18.05.2020 to 24.05.2020 under the aegis of MHRD RUSA 2.0 Scheme.
3.	Participated Two - Week Online Capacity Building Programme for Faculty Members and research Scholars organized by Alagappa University, Karaikudi, under sponsorship of UGC Component - I Scheme, from 12.05.2020 to 24.06.2020
4.	Participated "International Conference on Recent Trends in Bioplastics (RTB-2019)" organized by Department of Microbiology, Alagappa university, Karaikudi, from 9 th & 10 th December - 2019.
5.	Participated "International conference on Innovative and Emerging trends in Botany (ICIETB-2019)", organized by Department of Botany, Alagappa University, Karaikudi, from 6 th - 7 th November - 2019.
6.	Presented a paper in the "International Conference on Computational Sciences (ICCS 2019) entitled as <i>In-silico</i> approaches for Screening and Assessment of Phytochemicals using Natural Plants for Snake Bite, Department of Computer Science, Alagappa University, Karaikudi, 23 rd and 24 th October - 2019.
7.	Presented a paper in the "International Conference on Computational Sciences (ICCS 2019) entitled as Medicinal plants Database for Dengue, Tuberculosis and Jaundice: A Common Platform for Genomic, Chemical and Traditional Information, Department of Computer Science, Alagappa University, Karaikudi, from 23 rd and 24 th October - 2019.
8.	Participated "Two-Day National Conference on Recent Trends in Drug Discovery, Development and Targeted Delivery System for Cancer-2019", organized by Department of Biochemistry, J.J College of Arts and Science, Pudukottai, Tamilnadu, from 26 th and 27 th September - 2019.
9.	Participated "International Conference on Bioplastics (BIOP-2019), organized by Department of Microbiology, Alagappa University, Karaikudi, from 2 nd April - 2019.
10.	Attended "One Day workshop on Technical and Scholarly Writing, organized by Alagappa University, Karaikudi, from 14 th February - 2019.
11.	Participated "3 rd International Conference on Recent Trends in Microbiology (RTM-2019), organized by Department of Microbiology, Alagappa University, Karaikudi, from 24 th and 25 th January - 2019.
12.	Participated "International Conference on Information, Communication and Digital Security ICICDS-2019, organized by Department of Computer Application, Alagappa University, Karaikudi, from 21 th and 22 th March - 2019.
13.	Participated "10 th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design", organized by Department of Bioinformatics, Alagappa University, Karaikudi, from 20.01.2018 to 23.01.2018.

14.	Participated “Four Days workshop on Commercialization Prospects of Micobial Formulates”, organized by Department of Microbiology and University Business Collaboration Center (UBCC), Alagappa University, Karaikudi, from 22 nd to 25 th January -2018.
15.	Participated “2 nd International Conference on Recent Trends in Microbiology (RTM-2018), organized by Department of Microbiology, Alagappa University, Karaikudi, from 11 th and 12 th January - 2018.
16.	Participated “One Day Conference on Exploring Commercialization of Biosensors in India organized by Department of Bioelectronics and Biosensors, Alagappa University, Karaikudi, from 14 th March - 2017.
17.	Participated in the Faculty Development (Enrichment) program – ACCREDITATION QUALITY ENHANCEMENT – held in Alagappa University from 60.01.2017 to 12.01.2017.
18.	Presented a Poster “8 th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design”, organized by Department of Bioinformatics, Alagappa University, Karaikudi, from 16 th to 19 th February - 2016.
19.	Participated “International Conference on Recent Trends in Microbiology (RTM-2016)”, organized by Department of Microbiology, Alagappa University, Karaikudi, from 20 th and 21 st December - 2016.
20.	Participated “International Workshop on Data Science and Analytics”, organized by Department of Computer Science, Alagappa University, Karaikudi, from 27 th and 28 th September - 2016.
21.	Participated “International Workshop on Molecular Physiology, Therapeutics and Experimental Medicine” (MPTM’ 2016), organized by Department of Animal Health and Management, Alagappa University, Karaikudi, from 6 th and 7 th September - 2016.
22.	Presented poster “International Conference on Recent Trends in Biosciences (ICRTB 2016)”, organized by Department of Microbiology, Alagappa University, Karaikudi, from 7 th and 9 th April - 2016.
23.	Participated “International Conference in International Colloquium on Environmental Pollution Hazards Management and Preventing Viral Diseases, organized by Department of Biochemistry, RVS College of Arts and Science, Karaikkal, 26 th October - 2010.
24.	Participated “One Day National Workshop on Patent Information organized by Bharathidasan University, Tiruchirappalli, 29 th April- 2009.

Recent Publications

1. **Jesudass Joseph Sahayarayan**, Rajangam Udayakumar, Muthukrishnan Arun, Andy Ganapathi, Mona S. Alwahibi, Norah Salim Aldosari, Abubaker M.A. Morgan, “ Effect of different *Agrobacterium rhizogenes* strains for *in-vitro* hairy root induction, total phenolic, flavonoids contents, antibacterial and antioxidant activity of (*Cucumis anguria* L.)”, ***Saudi Journal of Biological Sciences***, 2020, (Impact Factor:**2.802**).
2. **Jesudass Joseph Sahayarayan**, Kulanthaivel SoundarRajan, RamasamyVidhyavathi, Mutharasappan Nachiappan, Dhamodharan Prabhu, Saleh Alfarraj, Selvaraj Arokiyaraj, Amalorpavanaden, NicholasDaniel, “Identification of potential drug target in malarial disease using molecular docking analysis”, ***Saudi Journal of Biological Sciences***, 2020,(Impact Factor: **2.802**).

3. **Jesudass Joseph Sahayarayan** , Kulanthaivel Soundar Rajan , Ramasamy Vidhyavathi, Mutharasappan Nachiappan , Dhamodharan, "*In-silico* protein-ligand docking studies against the estrogen protein of breast cancer using pharmacophore based virtual screening approaches", *Saudi Journal of Biological Sciences*, 2020,(Impact Factor: **2.802**).
4. Sukanya Panikar , Gunasekaran Shobaa , Muthukrishnan Arunc, **Jesudass Joseph Sahayarayan**, Usha Raja Nanthini , Arunachalam Chinnathambi , Sulaiman A. Alharbi , Omailma Nasiff, Hak-Jae King "Essential oils as an effective alternative for the treatment of COVID-19: Molecular interaction analysis of protease (Mpro) with pharmacokinetics and toxicological properties", *Journal of Infection and Public Health*, 2021, (Impact Factor:**2.447**).