

## Curriculum Vitae

**Dr. S. VIJAYA PRABHU**

Email ID: [vijaybio0624@gmail.com](mailto:vijaybio0624@gmail.com)

### **Present Address**

8-1B, First Floor  
Murugan Nagar  
Pirattiyur- West  
Tiruchirappalli- 620 009  
Tamil Nadu, India

**Mobile:09597885145**

### **Professional Experience**

Designation	Name of the Organization	Period		No. of Years/ Months
		From	To	
Assistant Professor	Department of Biotechnology, Microbiology, and Bioinformatics National College (Autonomous), Tiruchirappalli.	15 <sup>th</sup> Sep-2021	Present	2 Years 11 Months
Scientific Coordinator	Finoseq, Madurai	5 <sup>th</sup> April-2021	14 <sup>th</sup> Sep-2021	6 Months
Senior Research Fellow (Ph.D.)	Department of Bioinformatics, Alagappa University, Karaikudi	17 <sup>th</sup> Sept-2018	23 <sup>rd</sup> May-2019	9 Months
Senior Research Fellow	Department of Bioinformatics, Alagappa University, Karaikudi	26 <sup>th</sup> - Nov-2016	23 <sup>rd</sup> -Feb-2018	1 Year 3 Months
Junior Research Fellow	Department of Bioinformatics, Alagappa University, Karaikudi	26 <sup>th</sup> -Nov-2014	25 <sup>th</sup> -Nov-2016	2Years
Research Assistant	Amphigene Research Institute, Thanjavur	15 <sup>th</sup> - Feb-2012	31 <sup>st</sup> -Jan-2014	1-year 11Months
Lecturer	Annai College of Arts and Science, Department of Bioscience, Kovilacherry, Kumbakonam	1 <sup>st</sup> – Aug 2010	3 <sup>rd</sup> -Feb-2012	1 Year 6 Months

## Academic Qualification

Degree	Subject	University/ Institute	Year of passing
Ph.D.	Bioinformatics	Alagappa University	2021
PGDSP	Bioinformatics	Alagappa University	2016
M.Sc.,	Bioinformatics	Bharathidasan University	2010
B.Sc.,	Biotechnology	Bharathidasan University	2006

## Area of Specialization

- Neurobiology (neurodegenerative diseases)
- Infectious diseases caused by virus, bacteria and neglected protozoan Disease
- Structure and Ligand Based Drug Design
- Ligand Based Drug Design
- Entrepreneurship

## Skill Set

- Schrödinger (Commercial Software)
  1. Small Molecule Drug Discovery Suite
  2. Bioluminate
  3. Jaguar Suite (Quantum Chemical Calculations)
  4. Pharmacophore Modelling
  5. QSAR Modelling
- Biological Sequence and Phylogenetic Analysis (MEGA)
- Auto Dock
- Gromacs ( Molecular Dynamics Simulations Suite)
- Desmond (Molecular Dynamics Simulation suite)

## Awards & Honors

- **Title:** “E-Pharmacophore-based Screening of mGluR5 Negative Allosteric Modulators for Central Nervous System Disorder” **Best Oral Presentation Award (Second), International Conference on Bioinformatics (InCOB-2018) 26<sup>th</sup> –Sep -2018 to 28<sup>th</sup> – Sep- 2018, Jawaharlal Nehru University, New Delhi.**
- Department of Biotechnology (DBT) Travel Award: To present paper in 17<sup>th</sup> International Conference on Bioinformatics (InCoB-2018) at JNU New Delhi.

## Membership in Scientific Bodies

- Life Member “Bioinformatics Drug Discovery Society (BIDDS)”
- Member of “Asia Pacific Bioinformatics Interaction and Networking Society”

## Publications (Ph.D)

1. **Prabhu SV**, Singh SK. Identification of Dual negative allosteric modulators of Group I mGluR family: A shape-based screening, ADME Prediction, Induced Fit Docking and Molecular Dynamics approach against neurodegenerative diseases. *Curr Top Med Chem*. 2019 doi: 10.2174/1568026619666191105112800 (IF = 3.4)
2. **Prabhu SV**, Singh SK. Energetically Optimized Pharmacophore Modeling to Identify Dual Negative Allosteric Modulators against Group I mGluRs in Neurodegenerative Diseases. *J. Biomol. Struct. Dyn.* 2019, 1-12 doi: 10.1080/07391102.2019.1640794. (IF = 2.7)
3. **Prabhu SV**, Singh SK . E-Pharmacophore-based screening of mGluR5 Negative Allosteric Modulators for Central Nervous System Disorder. *Comput Biol Chem*. 2019 78:414-423. doi: 10.1016/j.compbiolchem.2018.12.016. (IF = 3.1)
4. **Prabhu SV**, Singh SK . Atom-based 3D-QSAR, induced fit docking, and molecular dynamics simulations study of thieno[2,3-b]pyridines negative allosteric modulators of mGluR5. *J. Rec. Signal Transduct.* 2018, doi: 10.1080/10799893.2018.1476542. (IF = 2.6)

## Publications (Other)

5. Manogar P, **Prabhu S.V.**, Durairaj P., John Abel M.M., Prakash N., Jayanthi S. *Molecular docking interaction of bioactive molecules from Kigelia africana (Lam.) Benth., revealed potential inhibitors of Penicillin-Binding Protein 2 (PBP2), Aspects of Molecular Medicine*, 2024, 4, 1-14.

6. Anwar, S., Alrumaihi, F., Sarwar, T., Babiker, A.Y., Khan, A.A., **Prabhu, S.V.**, Arshad, A.H. Exploring Therapeutic Potential of Catalase: Strategies in Disease Prevention and Management. *Biomolecules* 2024, 14(6), 697 (IF = 5.5)
7. Shehwaz Anwar, Vikalp Kumar, Ehsan Ahmed Yahia, **S Vijaya Prabhu**. Optimization of Various Factors Affecting Pseudomonas aeruginosa Mediated Removal of Azo Dye, *International Journal of Creative Research Thoughts* 2024 12 (1), 538-549
8. Ehsan Ahmed Yahia Shehwaz Anwar, Vikalp Kumar, **Sitrarasu Vijaya Prabhu**. Investigation of Effect of Curcuma longa L. against Glucose Mediated Glycation of Bovine Serum Albumin. *International Journal of Creative Research Thoughts* 2024 12 (1), 143-152.
9. Ehsan Ahmed Yahia Vikalp Kumar, Shehwaz Anwar, **Sitrarasu Vijaya Prabhu**, Ravindra Raut. A Study on Optimization Conditions for Biodegradation of Methyl Orange Azo Dye Using Pseudomonas aeruginosa. *International Journal of Creative Research Thoughts* 2024, 12, 133-145.
10. Kalaimathi K., Prabhu S., Ayyanar M., Thiruvengadam M., Shine K., **Vijaya Prabhu S.** Amalraj S. Unravelling the Untapped Pharmacological Potential of Plant Molecules as Inhibitors of BACE1: In Silico Explorations for Alzheimer's Disease, *Applied Biochemistry and Biotechnology*, 2023 (IF = 3.00)
11. Chandra, I., **Prabhu, S.V.**, Nayak, C., Singh, S.K., E-Pharmacophore based screening to identify potential HIV-1 gp120 and CD4 interaction blockers for wild and mutant types. *SAR QSAR Environ Res.* 2021 (IF = 2.3)
12. Bhardwaj R , Das M , Singh S, Chiranjivi AK, **Prabhu SV**, Singh SK, Dubey VK. Evaluation of CAAX prenyl protease II of Leishmania donovani as potential drug target: infectivity and growth of the parasite is significantly lowered after the gene knockout. *Eur. J. Pharm. Sci.* 2017, 102:156–160. (IF = 4.6)
13. **Prabhu SV**, Tiwari K, Suryanarayanan V, Dubey VK, Singh SK. . Exploration of new and potent lead molecules against CAAX prenyl protease I of Leishmania donovani through Pharmacophore based virtual screening approach . *Comb. Chem. High. T. Scr.* 2017, 20(3):255-271. (IF = 1.8)
14. Singh S, **Prabhu SV**, Suryanarayanan V, Bhardwaj R, Singh SK, Dubey VK. Molecular docking and structure based virtual screening studies of potential drug target, CAAX prenyl proteases, of Leishmania donovani. *J. Biomol. Struct. Dyn.* 2016, 34(11):2367-86. (IF = 2.7)

## Proceedings & Conferences

- National Level Seminar on the Impact of Bio-Entrepreneurship for the sustainable Bio-Economy Transformation through Microfinance 5th & 6th January, 2023. National College (Autonomous), Tiruchirappalli.
- National Conference on Recent Advances in Structural Biology, November 4<sup>th</sup> & 5<sup>th</sup> 2022, National College (Autonomous), Tiruchirappalli.
- 11<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2019, Alagappa University, Karaikudi.
- 17<sup>th</sup> International Conference on Bioinformatics:2018 (InCoB), Jawaharlal Nehru University New Delhi
- 10<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2018, Alagappa University, Karaikudi.
- National Conference on Trends in Microbiology (NCTM-2017), Department of Microbiology, Alagappa University Karaikudi.
- 9<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2017, Alagappa University, Karaikudi.
- Theoretical Chemistry Symposium (TCS-2016) University of Hyderabad, Hyderabad.
- International Conference on Recent Advances in Modern Medicine: molecular signaling scenarios in tissues and diseases. Sree Balaji Medical College and Hospital Bharath University (RAMM’2016) Chennai.
- International Conference on Recent Trends in Biosciences (ICRTB) April, 2016, Alagappa University, Karaikudi
- 8<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2016, Alagappa University, Karaikudi
- 7<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2015, Alagappa University, Karaikudi

- 6<sup>th</sup> National Symposium cum Workshop on “Recent Trends in Structural Bioinformatics and Computer Aided Drug Design; 2014, Alagappa University, Karaikudi
- One Day State Level Seminar on Emerging Trends in Bio-Sciences Marudupandiyar College Thanjavur.
- One day National Symposium on *In silico* Biology Dhanalakshmi Srinivasan College of Arts & Science for women Perambalur.
- One day National Conference on Future Scenario of Food Nanotechnology A.V.C College (Autonomous) Mayladuthurai.
- Silver Jubilee Symposium on Bioinformatics –BTISNET in India Centre for Bioinformatics Pondicherry University Pondicherry.
- State level symposium on New Vistas in Life Sciences Achariya Arts& Science College Pondicherry
- One day training in INDIAN INSTITUTE OF CROP PROCESSING TECHNOLOGY.
- Regional seminar in Herbal Biotechnology, Solar Institute of Biotechnology and Research Academy, Thanjavur.
- National Level seminar on Recent Trends in Biotechnology, Bishop Heber College Trichy.

### **Invited Talk & Workshops**

- International Workshop on Computer Aided Drug Design, 27.02.2023-28.02.2023 Institute of Biological Sciences, SAGE University Indore, Madhya Pradesh.
- World Alzheimer’s Day Talk- 23.09.2023, Annai Vailankanni Arts And Science College, Thanjavur, Tamil Nadu.
- Workshop on Computational Biology – 05.02.2024, RVS college of Arts and Science Coimbatore, Tamil Nadu

### **Extra-Curricular Activities**

Participated in NSS

## Personal Information

- Gender : Male
- Date of Birth : 24<sup>th</sup> Dec 1985
- Marital Status : Married
- Passport Number : V9995633
- Ethnicity : Asian
- Nationality : Indian
- Languages Known : Tamil (R,W, & S), English (R, W & S)
- Permanent Address : 1/53-A, Nadar Thottam,  
Mathur West (PO)  
Pasupathi koil-Via  
Thanjavur-District

## Reference

### **Dr. Sanjeev Kumar Singh**

Professor

Department of Bioinformatics

Alagappa University

Karaikudi

Contact Number: +91 -96530 03854, +91-98944 29800

Email ID: [skysanjeev@gmail.com](mailto:skysanjeev@gmail.com) [sanjeevslab@gmail.com](mailto:sanjeevslab@gmail.com)

Website: [www.sanjeevslab.org](http://www.sanjeevslab.org)

## Declaration

I hereby declare that all the above furnished information is true to the best of my knowledge and belief.



(Dr. S. VIJAYA PRABHU)