




Bharathiar University

State University | "A++" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Dr S USHA Assistant Professor Department of Bioinformatics Bharathiar University</p> <p>Tamil Nadu E-mail: usha@buc.edu.in Phone: 9384787729 Office Number:</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Computational Drug Discovery • Bioprogramming • Structural Bioinformatics • Tool Development 	<p>Courses Teaching</p> <ul style="list-style-type: none"> •
<p>Research Experience: 8</p>	<p>Teaching Experience: 7</p>
<p>Research Credentials (as on December 2023 – Source: Google scholar) H-index: 5 Citations: 61 i10-index: 3</p>	
<p>Publications International Journals: 11 Conferences: 1 National Journals: 1</p>	
<p>Career</p> <p>Other Institutes</p> <p>1. Designation : Post Doctoral Fellow Institution Name : Alagappa University Period : September 2015 - November 2016</p>	
<p>Education</p> <p>Ph. D. Subject : Bioinformatics Institution : Bharathidasan University Affiliated University : Bharathidasan University Year of Award : December 2015</p>	
<p>Projects</p>	<p>Research Guidance</p>
<p>National Level Institutional Responsibilities Ongoing - 1 completed - Subject expert Period : Jul 2019 - Dec 2023 Nature of Responsibility : Framing M.Sc. Bioinformatics Syllabus</p> <p>Cultural Committee Member Period : Mar 2018 - Nov -0001 Nature of Responsibility : Judge</p>	
<p>Selected Publications</p> <p>1. System-wide health risk prediction for 4-methyl-2,4-bis(4-hydroxyphenyl)pent-1- ene(MBP), a major active metabolite of environmental pollutant and food contaminant – Bisphenol A.</p> <p>Toxicology, 485, 153414. (February 2023) Maadurshni, G. B., Nagarajan, M., Priyadarshini, S., Singaravelu, U., Manivannan, J.</p>	



2. Identification of oxazolo [4,5-g]quinazolin-2(1H)-one derivative as EGFR inhibitors for cancer prevention.

Asian Pacific Journal of Cancer Prevention, 2351687-2351697. (May 2022)
Senthil, R., Kumar, K., Sundaram, M., Bupesh, G., Usha, S., & Saravanan, K. M.

3. Phytochemical profiling in conjunction with in vitro and in silico studies to identify human α -amylase inhibitors in *Leucaena leucocephala* (Lam.) de wit for the treatment of diabetes mellitus.

American Chemical Society Omega (July 2021)
Ranganathan, S., Manokaran, S., Kumar, P. V., Singaravelu, U., Kim, P., Kutzner, A., & Heese, K.

4. Performance of 2-hydroxy-1-naphthaldehyde-2-aminothiazole as a highly selective turn-on fluorescent chemosens or for Al (III) ions detection and biological applications.

Journal of Fluorescence, 31. (May 2021)
Kuzhandaivel, H., Bahsa, S. M., Charles, I. D., Raju, N., Singaravelu, U., & Nallathambi, K. S.

5. Structure-based drug design of peroxisome proliferator activate receptor gamma inhibition: ferulic acid and derivatives.

Journal of Biomolecular Structures and Dynamics, 30. (March 2020)
Senthil, R., Sakthivel, M., & Usha, S.

6. Importance of Fluctuating Amino Acid Residues in Folding and Binding of Proteins.

Avicenna Journal of Medical Biotechnology, 11, 339. (October 2019)
Senthil, R., Usha, S., & Saravanan, K. M.

7. Prediction of kinase-inhibitor binding affinity using energetic parameters.

Bioinformation, 12, 172 – 181. (June 2016)
Usha, S., & Selvaraj, S.

8. Structure-wise discrimination of adenine and guanine by proteins on the basis of their nonbonded interactions.

Journal of Biomolecular Structure and Dynamics, 33, 1474 – 1492. (September 2014)
Usha, S., & Selvaraj, S.

9. Structure-wise discrimination of cytosine, thymine, and uracil by proteins in terms of their nonbonded interactions.

Journal of Biomolecular Structure and Dynamics, 32, 1686 – 1704. (September 2013)
Usha, S., & Selvaraj, S.