Bharathiar University

State University I "A++" Grade by NAAC I 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr S USHA

Assistant Professor
Department of Bioinformatics

Bharathiar University

Tamil Nadu
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Phone: 9384787729
Office Number:

Research Area

- Computational Drug Discovery
- Bioprogramming
- Structural Bioinformatics
- Tool Development

Courses Teaching

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Research Experience: 8

Teaching Experience: 7

Research Credentials (as on December 2023 – Source: Google scholar)

H-index: 5 Citations: 61 i10-index: 3

Publications

International Journals: 11 Conferences: 1 National Journals: 1

Career

Other Institutes

1. Designation : Post Doctoral Fellow
Institution Name : Alagappa University
Period : September 2015 - November 2016

Education

Ph. D.
Subject : Bioinformatics
Institution : Bharathidasan University
Affiliated University : Bharathidasan University
Year of Award : December 2015

Projects

National Level
Ongoing - 1 completed -

Research Guidance

Institutional Responsibilities

Subject expert
Period :Jul 2019 - Jul 2019
Nature of Responsibility :Framing M.Sc. Bioinformatics Syllabus

Cultural Committee Member
Period :Mar 2018 - Mar 2018
Nature of Responsibility :Judge

Publications

International Journals - 11

11. 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.

Toxicology, 485, 153414. (February 2023)
Maadurshni, G. B., Nagarajan, M., Priyadharshini, S., Singaravelu, U., Manivannan, J.

Dr S USHA , Assistant Professor , Department of Bioinformatics

10. 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.

9. Phytochemical profiling in conjuction with in vitro and in silico studies to identify human ? – 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.

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

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

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

Journal ofBiomolecualr 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 MedicalBiotechnology, 11, 339. (October 2019)
Senthil, R., Usha, S., & Saravanan, K. M.

5. Structural discrimination of purines and pyrimidines by proteins through water-mediated contacts.

International Journal ofPharma and Bio Sciences, 7, 692 – 696. (July 2016)
Usha, S., & Saravanan, K. M.

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

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

3. Pharmacophore-based database searching of kinase-inhibitor mimetic molecular hits.

Journal of Bio Innovation, 5, 446 – 463. (May 2016)
Usha, S.

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

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

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

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

Conferences - 1

1. Toxicological mechanisms of environmental disruptor compounds apigenin and genistein – A molecular pathway approach In: Life Science: Research, Practices and Application for Sustainable Development (Eds.) Ponmurugan et al., ,

MacMillan Publishers, New Delhi, pp. 739-741. (July 2017)
Usha, S., & Manivannan J.

National Journals - 1

1. Environmental endocrine disrupting chemicals (EDCs) and its systems level toxicological mechanisms – An Environmental health study,

Life Science Archives (LSA), 3, 981-985. (February 2017)
Manivannan, J., & Singaravelu, U.

Dr S USHA , Assistant Professor , Department of Bioinformatics

Projects

Ongoing - 1

1. Computational analysis for identifying disease targets and Biomarkers in cancer and virtual screening of lead molecules Others 6,88,000 (October 2021 - December 2023)