



Dr. S.Bhagavathy
Assistant Professor (Biomedical Sciences)
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PhD/Post Doc supervision slots available: 3

Personal Profile

Dr.S.Bhagavathy, completed her Undergraduate, Postgraduate degree in Biochemistry & Bioinformatics with the Research degrees M.Phil. and Ph.D.in Biochemistry, she started her teaching career as a lecturer in the department of Biochemistry in Prince Shri Venkateswara College of Arts and Science in 2000. she worked as a senior Research Fellow (SRF) in National Institute of Tuberculosis Research (NIRT-ICMR), under Clinical Pharmacology project from 2001 to 2004. She worked as an Assistant Professor in Post Graduate and Research Department of Biochemistry in Mohamed Sathak College of Arts and Science College, from 2004 to 2022. She joined as an Assistant Professor in the Department of Biomedical Sciences, Shri Ramachandra Institute of Higher Education and Research in March 2022. Her research interest is Cancer Biology and Clinical Biochemistry. She is a recognized Research supervisor under University of Madras for M.Phil. and Ph.D. Biochemistry research programs. Currently she is recognized as a research supervisor in Biomedical Sciences and guiding Ph.D. scholars. She is guiding undergraduate, post graduate projects and summer research fellowship. She has more than 30 Research publications in the reputed Journals and one Book Chapter. She has presented her research papers in various National and International conferences. She is academically able to handle the theory and the related practical for undergraduate and postgraduate courses of Biomedical sciences. She is interested in the subjects of Biomolecules, Enzyme technology, Intermediary metabolism. Molecular Biology, Clinical Biochemistry, Immunology, Cell Biology and Bioinformatics.

Research Interests

- Cell signaling on cancer metastasis
- Hormonal regulation on cancer
- Phytomedicine
- Nanomedicine
- Clinical Biochemistry
- Enzyme technology
- Environmental toxicology
- Bioinformatics

Ongoing projects

- GATE project awarded on the year 2022 on Anti metastatic activity of phytomedicine on colon cancer cell lines

Guideship

- **Ph.D.** : G.Vishalini is life science graduate with a background in Human Genetics and Molecular Biology completed her Masters degree in Bharathiar University, Coimbatore. She is skilled in isolation of DNA, RNA & proteins, electrophoretic techniques, handling biochemical analysis and working experience on Phytochemical studies using Zebra fish animal model. Her research interests are Recombinant DNA technology, Regenerative medicine, Stem cell technology and Molecular diagnostic techniques. She has done poster presentation in conferences, hands on workshops and training programs. She has published her research work in the reputed journals. Currently she is working phytomedicine on the signaling pathways of thyroid cancer
- **Summer Research Fellow** : Guiding for Summer Research fellow under the project Immobilized Enzyme for degrading microplastics



Selected Publications

- G.Chandrasekar **S.Bhagavathy**, Comparative hypoglycemic index of South Indian pigmented and Non - pigmented rice varieties, International Journal for Multidisciplinary Research, 2023, 5(6), 1-17.
- G. Chandrasekar, S. **Bhagavathy**, Comparative GC-MS, Phytochemical Analysis and Free Radical Scavenging activities of South Indian Rice Varieties, Journal of Plant Science Current Research, 2023, 7 (1), 1-10.
- R.Gayathridevi, G.Shivapriya, **S.Bhagavathy**, Screening and Characterization of Vitexin from Vitex negundo by LCMS, pHPLC and 13CNMR Analysis, International Journal of Zoological Investigations, 2022, 8, 312 – 323.
- R.Gayathridevi, **S.Bhagavathy**, Effects of Vitexin on Inflammatory Genes on Rheumatoid Arthritis, Indian Journal of Natural Sciences, 2022, 13 (73), 44765 – 44772.
- G.Shivapriya, **S.Bhagavathy**, Comparative Docking Analysis of Vitexin, and Tamoxifen with EMT marker, Journal of Scientific Research, 2022, 66 (1), 261-268.
- G.Shivapriya, **S.Bhagavathy**, Formulation, Characterization and In vitro Drug Delivery of Vitexin Loaded Liposomes, International Journal of Pharmaceutical Sciences and Nanotechnology, 2021, 14 (2), 5364 – 5371.
- R.Gayathridevi, **S.Bhagavathy**, Computational Studies of Vitexin isolated from *Vitex negundo* against Rheumatoid Arthritis Targets, International Journal of Pharmaceutical Sciences and Drug Research, 2020:12(5), 495-500.
- **Bhagavathy S**, Sumathi P, Molecular docking of retinoic acid with cytochrome P450 isoforms CYP1A1, 1A2 and 1B1 – a potential drug target against carcinogen benzo(a)pyrene, *World Journal of Pharmaceutical Sciences*, 2014, 2(12), 1602-1613.
- **Bhagavathy S**, Sumathi P, Purification and Characterization of carotenoids from green algae *Chlorococcum humicola* by HPLC - NMR and LCMS - APCI, *Biomedicine and preventive Nutrition*, 2012, 2, 276-282