



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Biotechnology**



Dr. Saraswathi

Assistant Professor
Department of Life Sciences
School of Biological and Forensic Sciences

Areas of Specialisation:

Molecular Biology, Protein Identification and C
Characterization, Phytochemistry and Secondary Metabolites

Dr. Saraswathi is an Assistant Professor in the Department of Life Sciences at Kristu Jayanti (Deemed-to-be) University, Bengaluru. She completed her M.Sc. in Biotechnology from Bangalore University, Bengaluru, under the Department of Microbiology and Biotechnology. She qualified the state-level KSLET examination in Life Sciences and the national-level GATE examination in 2016. In 2021, she was awarded a Ph.D. in Biotechnology by Bangalore University, Bengaluru. Her research interests include protein identification and characterization, molecular cloning, extraction of secondary metabolites from medicinal plants, and the evaluation of their therapeutic applications. She has published 19 research articles in peer-reviewed journals and presented papers at national and international conferences. Recently, she received the Shodh Pravartan Research Grant for her project titled "Synthesis of Nanoparticles with Anti-Hypertensive Properties from Mimosa pudica and Evaluation of Cardioprotective Activity using Adult Zebrafish." She is also a life member of the Ethological Society of India.

Selected Publications:

1. Tavarekere Venkataravanappa, J., Raavi, V., Balakrishna, S., **Saraswathi S**, Kothegala Chendrashekaraiyah, P., Prabhakara Gowda, S., Dhayalan, A., ... Surendranath, A. R. (2025). Role of the TLR4 pathway in the development of chronic suppurative otitis media. Human Gene, 45, 201433. <https://doi.org/10.1016/j.humgen.2025.201433>
2. Ashok, D., Harini, B. P., . S., Jagadisha, T. V., Kumar, S. A., **Saraswathi S**, and Calistus, A. L. J. (2024). Bioaccumulation of Pb (Lead) in the Muscles of Danio rerio and its Effect on the Anti-oxidant Enzyme Catalase in the Mining Vicinity of Kolar Gold Fields. Agricultural Science Digest - A Research Journal, (Of). <https://doi.org/10.18805/ag.d-5924>
3. Samyuktha A, Kumar AA, **Saraswathi S**, Dayalan A and Venkataravanappa JT: Herbal interventions for hypertension: a review of traditional plants, bioactive compounds, and nanotechnological advances. Int J Pharm Sci & Res 2025; 16(6): 1532-40. doi: 10.13040/IJPSR.0975-8232.16(6).1532-40