

Profile of Research Supervisor (Guide): Dr. Manmohan Singh, Bengaluru City University

Discipline of Supervision: Biotechnology



Dr. Sowbhagya R

Assistant Professor

Department of Biotechnology & Genetics

Areas of Specialisation: Nutraceuticals, Neurobiology,
Cancer biology, Gerontology

Dr. Sowbhagya R is an Assistant Professor in the Department of Biotechnology at M. S. Ramaiah College of Arts, Science and Commerce, Bengaluru. She holds M.Sc., K-SET qualification, and a Ph.D., with research expertise in neurobiology, nutraceuticals, nanobiotechnology, plant biotechnology, and translational biomedical research, molecular biology. She has authored several research papers, book chapters, and conference presentations in reputed national and international journals and is actively involved in teaching, research, and academic mentoring. She was a Women Scientist (WOS-A) fellow under the Department of Science and Technology (DST) (₹20,40,000), Government of India, where she contributed to cutting-edge research in biotechnology. She has also served as a researcher in a BUIRF-funded minor research project, gaining valuable experience in interdisciplinary research and project execution. She was the Co-Principal Investigator (Co-PI) of an Indian Council of Medical Research (ICMR) funded hand-on workshop worth ₹9,90,000 for conducting a Hands-on Workshop on “Translational Applications of CRISPR-Cas9 – In Vitro Based Techniques for Biomedical Research,” aimed at providing advanced practical training in genome-editing technologies to students and researchers. She is also a recognized Ph.D. guide under Dr. Manamohan Singh Bengaluru City University and is currently supervising one doctoral research scholar. Her research interests include Nutraceuticals, Cancer biology, neurobiology, molecular therapeutics, bioinformatics, and translational biotechnology. She remains committed to fostering innovation, collaborative research, and experiential learning while mentoring the next generation of scientists.

Google Scholar link: <https://scholar.google.com/citations?user=9WdORGkAAAAJ&hl=en>

Selected Publications:

1. Mylarappa, M., Selvam, C., Ramesh, S., Sanjeevappa, H. K., **Sowbhagya, R.**, et al. (2026). Eco-friendly synthesis of CeO₂ nanoparticles using bee pollen: Dye purification, antioxidant, antibacterial, antifungal and anticancer properties. *Nanochemistry Research*, 11(1), 86–111. [10.22036/ncr.2025.512371.1460](https://doi.org/10.22036/ncr.2025.512371.1460)
2. Ramakrishnaiah, T. N., **Sowbhagya, R.**, Muktha, H., Surendra, A. S., Tanvi, Y., et al. (2025). Gene therapy with gene delivery systems and therapeutic strategies: A new frontier in cancer treatment. *Journal of Drug Delivery Science and Technology*, 107, 106798. [10.1016/j.jddst.2025.106798](https://doi.org/10.1016/j.jddst.2025.106798)
3. **Sowbhagya, R.**, Muktha, H., Ramakrishnaiah, T. N., Surendra, A. S., Sushma, S. M., et al. (2024). Collagen as the extracellular matrix biomaterials in the arena of medical sciences. *Tissue and Cell*, 90, 102497. [10.1016/j.tice.2024.102497](https://doi.org/10.1016/j.tice.2024.102497)