



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Biotechnology**



Dr. Deepak P

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

Areas of Specialisation:

Nanobiotechnology and Nanomaterials, Green Synthesis and Biomedical Nanotechnology, Marine Biotechnology and Bioactive Compounds, Antimicrobial Therapeutics and Drug Discovery, Nanomedicine and Drug Delivery Systems

Dr. P. Deepak is a PhD-qualified Biotechnology academician and Assistant Professor in the Department of Life Sciences at Kristu Jayanti (Deemed to be University), Bengaluru, with over six years of experience in teaching, research, and academic administration. His major research interests include nanobiotechnology, marine biotechnology, antimicrobial therapeutics, bioactive compounds, green nanomaterials, and their biomedical applications. His doctoral research focused on antioxidant and enzyme-inhibitory compounds from seaweeds using in vitro and in silico approaches. Dr. Deepak has published 60+ Scopus-indexed research articles in reputed international journals, including Elsevier, Springer, Wiley, and Taylor & Francis publications. His Scopus profile records 62 publications, 1112 citations, and an H-index of 20. He has also contributed to 56 Web of Science-indexed publications, including 54 publications in the Web of Science Core Collection, with an H-index of 18. His recent research contributions include green synthesis of nanomaterials, nanoparticle-mediated drug delivery, biosensing nanomaterials, and plant- and microbe-mediated nanomaterials for biomedical applications. He is a recipient of the Research Excellence Platinum Award 2026 from Kristu Jayanti (Deemed to be University).

Selected Publications:

1. **Deepak, P.**, Nehaa, R., Harrison, V. et al. Fabrication of silver nanoparticles from *Coleus aromaticus* and its mosquito larvicidal property-in vitro and in silico. 3 Biotech 16, 1 (2026). <https://doi.org/10.1007/s13205-025-04497-x>
2. Radhakrishnan, S., Ganesan, V., **Paramasivam, D.**, Umesh, M., Mani, V. M. Synthesis and therapeutic potential of copper oxide nanoparticles from endophytic fungi: anti-cancer activities and mechanisms. BioNanoScience Open source preview, 2026, 16(1), 31 DOI: 10.1016/j.bioorg.2025.108679
3. Rajkumar, M.; Tian, F.; Javed, B.; Prajapati, B.G.; **Deepak, P.**; Girigoswami, K.; Karmegam, N. Smart Biosensing Nanomaterials for Alzheimer's Disease: Advances in Design and Drug Delivery Strategies to Overcome the Blood–Brain Barrier. Biosensors 2026, 16, 66. <https://doi.org/10.3390/bios16010066>