



## 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; Marine Natural Product Pharmacology,  
Medical and Environmental Microbiology, Biomaterials  
and Nanomedicine, Toxicology and Ecotoxicology

Dr. Deepak P is an Assistant Professor of Biotechnology at Kristu Jayanti University, Bengaluru. He holds a Ph.D. in Biotechnology from Periyar University, Salem, Tamil Nadu. His research focuses on marine bioresources, nanobiotechnology, and natural product pharmacology, with special emphasis on seaweed-derived bioactive compounds, nanoparticles, and their biomedical applications in antimicrobial, anticancer, antidiabetic, ecotoxicological, and water purification studies. He has authored over 52 research publications in reputed international journals, including Elsevier, Springer, Wiley, Taylor & Francis, and MDPI, with an h-index of 16 and more than 800 Scopus citations. His academic contributions also include several book chapters in Springer's Nanotechnology in Life Sciences series and the authorship of textbooks on cell biology, genetics, and marine pharmacology. He has received several prestigious recognitions, including the Research Excellence Award (2024) from Kristu Jayanti College, the University Research Fellowship (2017), and the Postgraduate Gold Medal (2014) from Periyar University. His expertise spans microbiological assays, in silico drug design, nanomaterial synthesis, and advanced analytical techniques such as HPLC, FTIR, NMR, and LC-MS. Through his interdisciplinary research, He aims to bridge biotechnology, nanoscience, and marine biology to develop sustainable solutions for healthcare and environmental applications.

#### **Selected Publications:**

1. Kandaswamy, K., Balasubramanian, S., Panda, S. P., **Deepak, P** Chaitanya, M. V. N. L., Mariseti, A. L., Nadeem, A., ... Arockiaraj, J. (2025). Thermo stable ZnO NPs/Asiatic acid nanocomposites for acidogenic neutralization, anti-biofilm, and enamel protection in dental enamel reinforcement. *Journal of Dentistry*, 161, 106001. <https://doi.org/10.1016/j.jdent.2025.106001>
2. Hussain, S. A., Ghimouz, R., Panda, S. P., **Deepak, P** Panigrahy, U. P., Marunganathan, V., Shaik, M. R., ... Guru, A. (2025). Synergistic effects of copper oxide-stigmasterol nanoparticles: a novel therapeutic strategy for oral pathogen biofilms and oral cancer. *Materials Technology*, 40(1). <https://doi.org/10.1080/10667857.2025.2476999>
3. Vijayanand, M., Issac, P. K., Velayutham, M., **Deepak, P.**, Thiagarajulu, N., Alam, M. W., and Guru, A. (2025). A sustainable solution: mitigating aquatic herbicide contamination through natural product interventions. *Aquaculture International*, 33(2). <https://doi.org/10.1007/s10499-025-01823-1>