



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Biotechnology**



Dr. P Roopa

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

Areas of Specialisation:

Protein chemistry, Enzymology, Agricultural Biotechnology, Bioenergy

Dr. P. Roopa is an Associate Professor in the School of Biological and Forensic Sciences, Department of Life Sciences, Kristu Jayanti (Deemed-to-be University), Bengaluru. She completed her M.Sc. in Biotechnology from Mysore University and qualified for the Junior Research Fellowship (JRF) in Life Sciences at Kerala University in 2005. She was awarded her Ph.D. in Biotechnology from the University of Kerala in 2014 for her thesis entitled "Purification and characterization of alkaline metalloprotease from halophilic *Bacillus* sp. and its production in a lab-scale bioreactor." With over 21 years of teaching experience, Her research interests include protein and bioactive peptide characterization, bioreactor studies, nanoparticle synthesis and characterization, and plant biotechnology. She has successfully completed one Minor Research Project and thirteen student project grants funded by the Karnataka State Council for Science and Technology, Kerala SCSTE, and the R&D wing of MCET, Trivandrum. She has been recognized with the Best Teacher Award twice by Mohandas College of Engineering and Technology. She has published 16 research articles in peer-reviewed journals, presented papers at international conferences, and holds two patents published by the Indian Patent Office along with several conference publications. She has also completed three NPTEL online courses and is a life member of professional bodies including AICTE.

Selected Publications:

1. Vincent, T., Sakthivel, K. M., Josephine, C. M. R., **Prasad, R.**, Chinnadurai, K., Kumar, P., ... Rasmi, R. (2025). Mechanistic insights into molecular targeted therapy and immunotherapy for lung cancer. *Biochemical and Biophysical Research Communications*, 776, 152204. <https://doi.org/10.1016/j.bbrc.2025.152204>
2. **Roopa, P. P.**, Reena, J. C. M., Deepa, R., Chandana, S. V., Yajushi, Y. V., and Sowmya, S. (2025). Green Synthesis of Zinc Oxide Nanoparticles from Aqueous Extracts of *Citrus sinensis* Peel: Their Characterization and Relevance. *Research Journal of Biotechnology*, 20(7), 134–141. <https://doi.org/10.25303/207rjbt1340141>
3. Josephine, C. M. R., **Prasad, R.**, Lismond, D. S., Wanniang, P., and Lalrempui, E. (2024). Molecular Characterization of Beneficial Microflora from Commercial Vermiwash and its Efficacy on Seed Germination of *Vigna radiata* L. *Agricultural Research Journal*, 61(2), 232–238. <https://doi.org/10.5958/2395-146x.2024.00030.3>