

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

Discipline of Supervision: Biotechnology



Dr. Geetika Pant

Assistant Professor

Department of Biotechnology

Areas of Specialisation: Plant Physiology, Nutraceuticals & Functional Foods and Environmental Biotechnology

Dr. Geetika Pant holds a B.Sc. in Biochemistry, Botany, and Zoology, an M.Sc. in Biotechnology, and a Ph.D. in Biotechnology from APS University. A University Gold Medallist and First Rank holder in M.Sc. Biotechnology, she has over 23 years of teaching and research experience and is currently associated with M.S. Ramaiah College of Arts, Science and Commerce. Her research contributions include over 25 peer-reviewed publications, 2 book chapters, and a textbook on General Microbiology published under the NEP curriculum. She has presented more than 15 papers at national and international conferences, guided numerous student research projects, and secured four KSCST student project grants from Government of Karnataka along with UGC-funded research support as Co-Principal Investigator. Dr. Pant's research interests span environmental biotechnology, plant stress physiology, nutraceuticals, anticancer therapeutics, environmental sustainability, and microgreen-based food innovations. She has received several recognitions, including the Best Oral Presentation Award at the World Congress on Climate Change and Global Warming, Dubai, and serves as a reviewer, BOE/BOS member, and Life Member of the Indian Science Congress Association (ISCA). Her work continues to bridge fundamental biological research with sustainable and health-oriented applications.

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

Selected Publications:

1. **Pant, G.**, Patil, A. R., Yallur, B. C., Chinnam, S., Ananthnag, G. S., Santhosh, C. R., Prasanna Kumar, S. G., & Hadagali, M. D. (2024). Pharmaceutical perspectives of thiazole analogues: An overview. *Results in Chemistry*, 12, 101820. <https://doi.org/10.1016/j.rechem.2024.101820>
2. **Pant, G.**, Bedamatta, A., Mukherjee, R., Paul, A., Dalawai, S. V. A., & Hallur, R. L. S. (2025). Biofunctional evaluation of *Curcuma longa*-derived silver nanoparticles and bisacumol for non-small cell lung cancer therapy through integrative experimental and computational approaches. *Pravara Medical Review*, 17(3), 101–113. <https://doi.org/10.36848/PMR/2025/66650.11666>
3. **Pant, G.**, Patil, A. R., Yallur, B. C., Ahmed, E., Prasanna Kumar, S. G., Batakurki, S. R., & Raghu, A. V. (2025). Scaffolds of biologically active heterocyclic compounds for discovery of potential drug against SARS-CoV-2. *Results in Chemistry*, 15, 102154. <https://doi.org/10.1016/j.rechem.2025.102154>