

Dr. Preethi Pandit

- **Ph. D. (Biotechnology, Goa University; 2020)**
- **M.Sc. (Biotechnology, RTMNU (Nagpur University; 2012)**
- **B.Sc. (Biotechnology, Goa University;2010)**

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Areas of Research	Marine viruses (Bacteriophages), bioremediation using microbes, bioindicators, and their environmental implications.
Interest	Food preservation mechanism using natural preservatives, Preservation of Mankurad and other local varieties of mangoes using physical and biological methods.

Research Profile:

- Meena, S. N., Wajs-Bonikowska, A., Girawale, S., Imran, M., **Poduval, P.**, & Kodam, K. M. (2024). High-Throughput Mining of Novel Compounds from Known Microbes: A Boost to Natural Product Screening. *Molecules*, 29(13), 3237. Published 5 book chapters.
- **Poduval, P.**, Parsekar, S., & Meena, S. N. (2023). Small molecules vs biologics. In *New Horizons in Natural Compound Research* (pp. 179-199). Academic Press.
- Sarkar, D., Dutta, S., Roychoudhury, S., **Poduval, P.**, Jha, N. K., Dhal, P. K., & Kesari, K. K. (2022). Pathogenesis of viral infections and male reproductive health: an evidence-based study. In *Oxidative Stress and Toxicity in Reproductive Biology and Medicine: A Comprehensive Update on Male Infertility-Volume One* (pp. 325-343). Cham: Springer International Publishing.
- **Poduval, P.**, Tiwari D K., (2022). Marine Polysaccharide Degrading Bacteria - A Source of Nutraceuticals. *Journal of Water Resources and Ocean Science*, 11(3), 48-53. <https://doi.org/10.11648/j.wros.20221103.11>
- Kotecha, H., & **Poduval, P. B.** (2019). Microbial lectins: Roles and applications. In *Advances in Biological Science Research* (pp. 135-147). Academic Press.
- **Poduval, P. B.**, Noronha, J. M., Bansal, S. K., & Ghadi, S. C. (2018). Characterization of a new virulent phage ϕ MC1 specific to *Microbulbifer* strain CMC-5. *Virus Research*, 257, 7-13.
- Jonnadula, R., Imran, M., **Poduval, P. B.**, & Ghadi, S. C. (2018). Effect of polysaccharide admixtures on expression of multiple polysaccharide-degrading enzymes in *Microbulbifer* strain CMC-5. *Biotechnology reports*, 17, 93-96.
- Imran, M., **Poduval, P. B.**, & Ghadi, S. C. (2017). Bacterial degradation of algal polysaccharides in marine ecosystem. *Marine pollution and microbial remediation*, 189-203.

Experience:

- Six and half years of Teaching Experience in the subjects of Biotechnology.
- Served as the Department In-charge for the academic year 2020-2021 in the Department of Biotechnology at Dhempe College of Arts and Science, Miramar Goa

Other details:

Recipient of ICGEB fellowship for participation in "POWER OF VIRUSES"- International Conference organized jointly organized by FEMS & Croatian Society of Microbiology, from 16.05.2018 to 18.05.2018 in Poreč, Croatia. Presented a paper entitled "Characterization of two marine *Microbulbifer* phages"