



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Microbiology**



Dr. Manon Mani V

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

Areas of Specialisation:

Bio- nanotechnology, Bio/ Nano- control agents,
Nanomedicines , Myco- metabolites, Valorization of biomass

Dr. V. Manon Mani is an Assistant Professor in the Department of Life Sciences, School of Biological and Forensic Sciences, at Kristu Jayanti (Deemed-to-be University), Bengaluru. She earned her Ph.D. in Microbial Biotechnology from Bharathiar University, Coimbatore, and also holds a Diploma in Bioinformatics. Her doctoral research focused on developing a novel therapeutic agent for cervical cancer. She has since extended her work to bio-nanomaterials, with applications as nanomedicines for cancer therapy and as drug delivery vehicles. She has also expanded her research into microbial-integrated approaches for environmental and agricultural applications, including biomass valorization. Dr. Manon Mani has published more than 40 research papers in reputed journals, with 470 citations and an H-index of 13. She has guided two Ph.D. scholars, 16 postgraduate, and 31 undergraduate students in their research projects. She serves as a reviewer for several reputed journals, including Bioresource Technology, PLOS One, Bionanoscience, 3 Biotech, and the Arabian Journal of Science and Engineering. She has co-organized an International Conference on IEBCB in Bangkok, Thailand, and has organized several national and international programmes.

Selected Publications:

1. Amutha, V., Deepak, P., Tamilselvan, C., Tamilselvan, L., Selvaraj, R., Guru, A., **Mani, V. M** ... Hussain, S. A. (2025). Green Synthesis of Cymodocea serrulata Zinc Oxide Nanoparticles for Sustainable Antibacterial, and Mosquito Control and their Toxicity to non-target Organisms. 3 Biotech, 15(6). <https://doi.org/10.1007/s13205-025-04312-7>
2. **Mani, V. M.**, Mohammedbasha, M., Sabarathinam, S., Umesh, M., and Paramasivam, D. (2025). Nanoremediation of Groundwater Contaminants Through Mycosynthesized CuONPs and ZnONPs. BioNanoScience, 15(1). <https://doi.org/10.1007/s12668-024-01776-4>
3. Vivekanandhan, K., Arockiam Jeyasundar, P. G. S., **Mani, V. M.**, and Ayyappadas, M. P. (2024). Isolation and molecular identification of polyphenol oxidase and associated enzyme production from Bacillus spp. Journal of Applied and Natural Science, 16(2), 663–673. <https://doi.org/10.31018/jans.v16i2.5369>