KRISTU JAYANTI
(DEEMED TO BE UNIVERSITY)
Under Section 3 of UGC Act 1956
A CMI INSTITUTION | BENGALURU | INDIA

Centre for Research & Development

Research Supervisor (Guide) Profiles
Discipline of Supervision: Microbiology

Dr. Prasanna Kumar C

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

Areas of Specialisation:

Molecular Taxonomy, Microbial Prospecting,
Alternative Animal Biology, Bioenterprise, DNA Barcoding

Dr. Prasanna Kumar C is an Associate Professor in the Department of Life Sciences at Kristu Jayanti (Deemed-to-be) University, Bengaluru. He earned his Ph.D. in Marine Microbiology from Annamalai University, where he was awarded the prestigious DST-INSPIRE Fellowship for securing first rank in his Master's program. His doctoral research explored prokaryotic diversity in the oxygen minimum zones of the Bay of Bengal, later identified as a commercially important methane hydrate reserve. As a postdoctoral fellow at Xiamen University, China, he investigated the chemolithoautotrophic functions of marine archaea in the Pacific Ocean. At CSIR–National Institute of Oceanography, he contributed to developing the National Marine Biodiversity Database of India. Dr. Kumar is a pioneer in applying DNA barcoding for molecular identification of diverse biological species in India, with a broader research focus on microbial diversity, ecosystem functioning, and molecular microbial ecology. He has published over 60 papers in peer-reviewed journals (346 citations; h-index: 13) and serves on the editorial boards of Springer Nature, Elsevier, Wiley, and MDPI. As coordinator of the microbial culture and hydra culture facilities at KJU, he provides Ph.D. students with international research exposure, mentorship, and expertise in DNA sequencing, barcoding, and microbial ecology.

Selected Publications:

1. Manokaran, S., **Prasannakumar, C.**, Ansari, K. G. M. T., Joydas, T. V., Manikandan, K. P., Aarif, K. M., Sudhagar, T. (2024). Barcoding, structural, and genetic variation of morphologically adopted polychaetes (Annelida: Paronidae, Lumberineridae, Spionidae) using mitochondrial COI gene sequences from the Bay of Bengal shelf including Oxygen Minimum Zone. Regional Studies in Marine Science, 76, 103613. https://doi.org/10.1016/j.rsma.2024.103613

2. Chinnamani, P., **Prasannakumar, C** Elamaran, A., and Venkidasamy, B. (2024). Diversity and abundance of archaeal amoA genes in the permanent and temporary oxygen minimum zones of Indian Ocean. Regional Studies in Marine Science, 73, 103497. https://doi.org/10.1016/j.rsma.2024.103497

3. Aziz, A. T., Alshehri, M. A., Alasmari, A., **Prasannakumar, C.**, Panneerselvam, C., and Sayed, S. (2022). Haplotype diversity of palm weevil in Saudi Arabia through ITS gene sequencing. Journal of King Saud University - Science, 34(3), 101893. https://doi.org/10.1016/j.jksus.2022.101893