



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Botany**



Dr. Indira M. N

Professor
Department of Life Sciences
School of Biological & Forensic Sciences

Areas of Specialisation:

Phytochemistry, Plant Tissue Culture and sustainability, Medicinal Botany, Environmental Biology

Dr. Indira M. N. is a Professor in the Department of Life Sciences at Kristu Jayanti (Deemed to be University), Bengaluru, with over 23 years of teaching and research experience in Botany. She holds an M.Sc. in Botany from Bangalore University (Gold Medal) and a Ph.D. from the same institution, and her research spans Plant Tissue Culture, Phytochemistry, Medicinal Plants, Biodiversity Conservation, Developmental Biology, and Sustainable Agriculture. Dr. Indira has presented at national and international conferences, published in peer-reviewed journals, and authored "Medicinal Plants of Kristu Jayanti College" A Catalogue, Volume I (2025), while actively mentoring student research and guiding dissertations. She served as Co-Principal Investigator on a KSCST-funded project (2023-2024) on elicitation of natural oils with larvicidal and mosquito-repellent properties and the development of novel repellent formulations, and she currently leads carbon sequestration studies of tree species on the university campus. Her academic service includes organizational roles in scholarly events, contributions to campus biodiversity documentation, and the establishment of a QR-coded medicinal garden, and she is a recipient of the AICTE Lilavati Award (2021-2022).

Selected Publications:

1. **Indira, M. N.**, Angeline, A. R., Ankit, K., & Vaishnavi, S. (2026). Impact of osmotic stress on seed germination and seedling growth in chickpea (*Cicer arietinum* L.). *Agricultural Science Digest*, 46(2), 325-329. <https://doi.org/10.18805/ag.D-6087>
2. **Indira, M. N.** (2025). Medicinal and phytochemical insights into *Citharexylum spinosum* L.: Exploring bioactive potential of an invasive species. *Medicinal Plants*, 17(4), 688-698. <https://doi.org/10.5958/0975-6892.2025.00072.1>
3. **Indira, M. N.** (2022). GC-MS analysis of bioactive compounds in ethanolic extract of *Drymaria cordata* (L.) Willd. ex Roem. & Schult. *Research Journal of Pharmacy and Technology*, 15(9), 4192-4195. <https://doi.org/10.52711/0974-360X.2022.00703>