Dr. R. Tamilvanan, M.Sc., Ph.D.
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Work Profile

Assistant Professor of Biotechnology at St. Joseph's College (Autonomous), Tiruchirappalli - 02 from 2025 to till date.

Academic Achievements & Conferences

- Certificate of Completion – National Workshop on Training in Animal Experimentation & Phytochemical Techniques (TAEPT-2024), organized by the Department of Biochemistry, Srimad Andavan Arts and Science College, Trichy.
- Completed Training on Analytical Instrumentation Techniques (2021) at Archbishop Casimir Instrumentation Centre, St. Joseph's College, Trichy.
- Attended – National Seminar on Recent Advances in Biomedical Technology (RABT-2024), organized by the Department of Biotechnology, St. Joseph's College, Trichy.
- Participated – National Seminar on Human Microbiota – An Ecological Approach (2020), organized by the Department of Botany, St. Joseph's College, in association with Trichy Obstetric & Gynecological Society (TRIOGS), Trichy.
- Attended – Rev. Fr. Lazar SJ Endowment Seminar (2019) on Dynamics of Research Quality, organized by Arrupe Library, St. Joseph's College, Trichy.
- Participated – National Symposium on Medicinal & Aromatic Plants (NASYMP-2017) conducted by School of Biological Sciences, St. Joseph's College, Trichy.
- First Place – Paper Presentation at the National Conference on Applications of Plant Metabolites & Vaccine Production (APMVP-2018) organized by PG & Research Department of Biotechnology, Selvam College of Arts and Science (Autonomous).
- Successfully completed Research Facility Training on Induced Mutation – A New Paradigm in Science (2022) at ICAR – National Research Centre for Banana.
- Completed State-Level Workshop on Plant Tissue Culture Techniques (2018) organized by the Department of Botany, St. Joseph's College, Trichy.

Skills & Competencies

- Effective Teaching & Student Engagement
- Counseling & Mentoring
- Academic Research & Scientific Writing
- Fine Arts & Creativity
- Fluency in English & Tamil
- Proficiency in Digital & Technological Tools

Education Background

- Ph.D. in Botany – St. Joseph's College (Autonomous), Trichy | 2024 (Highly Commended)
- M.Sc. in Botany – St. Joseph's College (Autonomous), Trichy | 2017
- B.Sc. in Botany – St. Joseph's College (Autonomous), Trichy | 2015

Research Interests

- Plant Biotechnology & Molecular Biology
- Phytochemistry & Pharmacology

Research Experience

- Ph.D. Research Title: Studies on In Vitro Plant Regeneration, Molecular Character Analysis, and Phyto-Pharmacological Evaluation of Lindernia minima (Benth.) Mukerjee – An Endangered and Endemic Plant
- M.Sc. Research Project Title: Larvicidal Effects of Leucas Aspera and Cymbopogon Citratus Extracts Against Mosquito Larvae (Culex quinquefasciatus) Under Laboratory Conditions

Publications

Peer-Reviewed Journal Articles

- Tamilvanan, R., David Raja, H., Srinivasan, P., Soosai Raj, S., Vijay, A., Jeferson, D. (2023). Synergistic effects of Vermi-Co extracts mixture with Cytokinins on shoot regeneration of Lindernia minima (Benth.) Mukerjee – An endangered medicinal plant. South African Journal of Botany, 161, 317-323. [Elsevier, Impact Factor: 2.7]

- Tamilvanan, R., David Raja, H., Srinivasan, P., Soosai Raj, S. (2022).Effect of vermicompost extract with phytohormones on micropropagation and in vitro flower induction of Lindernia minima (Benth.) Mukerjee – an endangered plant species endemic to Tamil Nadu, India. South African Journal of Botany, 149, 731-739. [Elsevier, Impact Factor: 2.7]

- Raja, H. D., Srinivasan, P., Tamilvanan, R. (2022). Effect of purified vermicast extract with plant growth regulators on indirect regeneration of Naregamia alata Wight & Arn from leaf explants and genetic fidelity analysis of regenerants. Plant Cell, Tissue and Organ Culture. [Springer, Impact Factor: 2.3]

- Srinivasan, P., Raja, H.D., Tamilvanan, R. (2021b). Efficient in vitro plant regeneration from leaf-derived callus and genetic fidelity assessment of an endemic medicinal plant Ranunculus wallichianus Wight & Arnn by using RAPD and ISSR markers. Plant Cell, Tissue and Organ Culture. [Springer, Impact Factor: 2.3]

- Srinivasan, P., Raja, H.D., Tamilvanan, R. (2021a).Effect of coconut water and cytokinins on rapid micropropagation of Ranunculus wallichianus Wight & Arnn—a rare and endemic medicinal plant of the Western Ghats, India. In Vitro Cellular and Developmental Biology – Plant, 57, 365-371. [Springer, Impact Factor: 2.2]

- Raja, H. D., Ramkumar, K., Srinivasan, P., Tamilvanan, R. (2018). Studies on in vitro and ex vitro seed germination of Passiflora foetida using various seed germination enhancing substances. World Journal of Pharmaceutical Sciences, 7(4), 1790-1796.

- David Raja H, Jenifer AM, Steffi PF, Thamilmaraiselvi B, Srinivasan P, Tamilvanan R. (2018). Micropropagation of Plumbago Zeylanica – An Important Medicinal Plant. World Journal of Pharmacy and Pharmaceutical Sciences, 7(4), 1823-1829.

- H-index: 3 I10-index: 3

- Deposited two gene sequences of my research plant in the National Center for Biotechnology Information (NCBI): Accession Number: OM540357.1 Accession Number: OP296989.1