

HARSHINI MOHANKUMAR

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3I, Kambar Street, LGB Nagar, Krishnapuram, Saravanampati post, Coimbatore - 641035

ORCHID ID: 0000-0002-5224-2090

SKILLS

- Conservation strategies of endemic and endangered medicinal plants
- Molecular docking studies
- Fieldwork experience
- Plant identification and documentation
- Scientific writing
- Collaborations
- Computation - GraphPad Prism and various docking software & tools
- Computer - Microsoft Word, Microsoft Excel and Microsoft PowerPoint presentation.
- Good verbal and written communication skills

PAPER PRESENTATIONS

- International - 4
- National - 3

Profile

Dedicated and skilled Botany researcher with a deep understanding of plant science, research techniques, and hands-on experience in plant-based studies. A confident communicator and adept at analyzing complex problems. Passionate about integrating research with teaching. Currently seeking a challenging opportunity to apply innovative research methods, broaden my expertise, and contribute meaningfully to scientific advancement.

Education

Ph.D in Botany **2025**

PSG College of Arts & Science, Bharathiar University

- **Highly commended**
- **Thesis title:** Unveiling the Bio-potential of Leaf and Leaf-derived Callus of *Strobilanthes cordifolia* (Vahl.) J.R.I. Wood – An Untapped Species.

Mater of Science in Botany **2019**

PSG College of Arts & Science, Bharathiar University

- First Class with Distinction
- **Thesis title:** Micropropagation and GC-MS analysis of in-vitro grown leaves of *Crescentia cujete* l. A highly medicinal tree (Bignoniaceae)

Bachelor of Science in Botany **2017**

PSG College of Arts & Science, Bharathiar University

- First Class

Certificate Course in Bioinformatics **2015**

PSG College of Arts & Science, Bharathiar University

- First Class with Distinction

List of Publications

- **Harshini, M.,** Deepa, S., & Prabakaran, R (2025). Effect of different solvent extracts on total phenol content, flavonoid content, and antioxidant properties of *Strobilanthes cordifolia* (Vahl) J.R.I. Wood. Research Journal of Chemistry and Environment. 23 (3), 13-19. https://doi.org/10.25303/293rjce013019 - **Scopus Indexed.**

AREA OF INTEREST

- Medicinal Plants (Endemic, Rare & Endangered species)
- Conservation and Biodiversity
- Plant Tissue Culture
- Molecular Docking
- Phytochemistry
- Pharmacology

REFERENCES

- **Dr. R. Prabakaran** (Ph.D Supervisor)
  Assistant Professor and Head,
  PG & Research Department of Botany,
  PSG College of Arts and Science,
  Coimbatore, Tamil Nadu, India–641014.
  E-Mail: prabakaran_r@psgcas.ac.in

- **Dr. K. Kalimuthu,**
  Dean, Research & Development,
  Department of Biotechnology,
  Dr. N.G.P. Arts and Science College,
  Coimbatore, Tamil Nadu, India–641048.
  E-Mail: kalimuthu.k@drngpasc.ac.in

- **Harshini, M.,** Deepa, S., & Prabakaran, R (2025). Macro propagation and Assessment on the Anti-inflammatory potential of *Plectranthus caninus* – an in vitro approach. Research Journal of Biotechnology. 20(2), 49-53. https://doi.org/10.25303/202rjbt049053 - **Scopus Indexed.**
- **Harshini, M.,** Deepa, S., & Prabakaran, R (2024). Anti-Inflammatory Potential of *Strobilanthes cordifolia* Leaf extracts: An untapped species. African Journal of Biological Sciences. 6 (14), 335-347. https://doi.org/10.48047/AFJBS.6.14.2024 - **Scopus Indexed.**
- **Book Chapter–** Deepa, S., **Harshini, M.,** & Prabakaran, R (2024). Role of Artificial Intelligence in Soil Nutrient Management. The role of artificial intelligence in agriculture, 68-82. ISBN – 978-304-58506-6.
- **Harshini, M.,** & Prabakaran, R (2023). Effect of PGRs on Escalation and Conservation of Plants –Review. Indian Journal of Natural Sciences, 14(79),59488-59499 – **WOS Indexed.**
- Kavitha, T., Prabakaran, R., Deepa, S., & **Harshini, M** (2021). Ethnomedicinal plants survey in Kurunthamalai Hill, Coimbatore District, Tamil Nadu, India. Brazilian Journal of Biological Sciences, 8(18) 57-72.

Achievements and Awards

- Received **third prize** fora paper presentation at the 5th International Conference on "Innovative Trends and Challenges in Applied Biological Sciences," organized by Rathinam College of Arts and Science on March 16, 2023.
- Received **first prize** for paper presentation at the National Conference on "Advanced Techniques in Plant Science and Nano Science," organized by Karpagam Academy of Higher Education, Feb 13 & 14, 2020.
- **Certificate of Appreciation -** Demonstrating the Mushroom Cultivation Program in SIGARAM 2.0 (Tribal Camp 2020) conducted by the Department of Social Work, PSG College of Arts and Science.
- Achieved Centum in Science in SSLC Public Examination.

Declaration

I hereby declare that the information provided above is true to the best of my knowledge and belief