

## Biodata

### Personal Details:

- **Name:** Dr. D. Sowmiya
- **Current Position:** Assistant Professor, Department of Botany (PG), NGM College (Autonomous), Pollachi
- **Contact Information:** [7094373012]

### Academic Information:

- **Ph.D. in Botany** (2024), PSGR Krishnammal College, Coimbatore
- **M.Phil. in Botany** (2015-2016), Government Arts College, Coimbatore,
- **M.Sc. in Botany** (2013–2015), Government Arts College, Coimbatore, 88%
- **B.Sc. in Botany** (2010–2013), NGM College, Pollachi, 88%
- **HSC in Biomaths** (2008–2010), PKD Matric HSS, Pollachi, 68%
- **SSLC** (2007–2008), Krishnasamy Matriculation School, Pollachi, 81%

### Certifications and Achievements:

- **Young Researcher Award-2023**, InSc Institute of Scholars
- **Completed several courses**, including National Education Policy-2020, "Learning for a Sustainable Future," and others through platforms like Coursera and NPTEL
- **Rank Holder** in M.Sc. (Gold) and B.Sc. (Bronze)
- **Certificate of Appreciation** for acquiring external funding (TNSCST, 2023)
- **Awarded multiple honors**, including "Towards Leadership Achiever Award" by Lions Club, Pollachi

### Workshops and Training Programs Organized:

- Organized and coordinated various workshops, including on "Organic Terrace Gardening," "Plant Taxonomy" and "Scientific Writing Skills"
- Key organizer of national and international workshops and faculty development programs

### Guest Lectures, Seminars, and Conferences Attended:

- Actively participated in numerous national and international webinars and workshops on topics like **Biodiversity, Climate Change, Plant Biotechnology** and **Biotechnology Tools**
- Attended workshops hosted by leading institutions including PSGR Krishnammal College, PSG College of Arts and Science, and more.

### Skills and Expertise:

- Plant taxonomy
- Biotechnology and molecular biology

- Workshop and seminar organization
- Academic mentoring and guidance

### **Posters/Papers Presented:**

1. International Conference on Sustainable Development Goals for Environmental Conservation (ICSDGEC-2023): Paper on “Qualitative and quantitative analysis of the unexplored fern, *Thelypteris meeboldii* from Southern Western Ghats, Tamilnadu” (12.07.2023–14.07.2023).
2. XVI Conference of the Indian Fern Society and International Symposium on Research in Pteridology (2022): Paper on “Floristic diversity of the pteridophytes of Anamalai Tiger Reserve, Western Ghats” (17.03.2022–19.03.2022).
3. International Conference on Emerging Trends in Science and Technology (ETIST-2021): Paper on “Chemical profiling and antibacterial activity of essential oil from the leaves of *Artabotrys hexapetalus*” (27.10.2021).
4. International Conference on Empowerment of Rural Communities through Innovations in Science and Technology (2020): Paper on “Comparative study of Oyster mushroom cultivation on treated paddy straw” (21.02.2020–22.02.2020).
5. SERB and ISCA International Conference on Impact of Innovations in Science and Technology (IISTSD-2019): Paper on “Formulation, evaluation and comparison of polyherbal powdered shampoo” (19.09.2019–21.09.2019).
6. National Conference on Innovations in Bio-Chemical and Food Technology (IBCFT-2019):  
Paper on “Effect of silver nanoparticles of *Ulva fasciata* in germination of selected pulses” (02.02.2019).
7. Poster Presentation on Green Silver Nanoparticles Synthesis (2016):  
International Conference on Converging Biotechnological Innovations in Environmental Welfare (19.09.2016).

### **Publications:**

1. Sowmiya, D. *et al.* (2019): "Effect of silver nanoparticles of *Ulva fasciata* in germination of selected pulses." *American International Journal of Research in Science, Technology, Engineering & Mathematics*.
2. Sowmiya, D. *et al.* (2021): "Identification and quantification of phytochemicals in *Hemionitis opposita* (Kaulf.) Christenh, an unexplored fern of Valparai Hills." *World Journal of Pharmacy and Pharmaceutical Sciences*.
3. Sowmiya, D. *et al.* (2023): "Screening of phytochemicals and antimicrobial activity of Lithophytic fern *Pyrrhosia porosa* (C. presl) Hovenkamp." *Indian Journal of Natural Sciences*.
4. Sowmiya, D. *et al.* (2024): "Qualitative and Quantitative Analysis of the Unexplored Fern, *Thelypteris meeboldii* from Southern Western Ghats, Tamil Nadu." *Indian Journal of Natural Sciences*.

### **BOOK CHAPTERS**

1. **Study on carbon sequestration potential of mosses roofed green walls.**

Book name: Environment and Unsustainable Human Life, Volume-V (Environmental Issues, Climate change, Ozone, Desertification, Deforestation and other Issues)

Editors: Dr. M.Z.A. Khan, Dr. Sunil Kumar Verma. First edition: 2021.

ISBN: 978-93-91308-48-3. Published by VL Media Solutions.

**2. Study on phytochemicals and antioxidant activities of the Lichen *Prmotrema melanothrix* (Mont.)**

Book name: Recent trends of innovation in chemical and biological science. Volume-IV

Editors: Dr. Bassa Satyanarayana and Mr. Mukul Machhindra Barawnt.

Bhumi Publishing, ISBN: 978-93-91768-97-3.

**3. Ethnomedicinal importance of Pteridophytes traditionally used by Nilambur tribals, Kerala.**

Book name: Ethnobotany and Ethnozoology, Bharti publications

Editors: Dr. Debabrata Das and Dr. Pampi Ghosh

ISBN: 978-93-94779-61-7.

**PROJECTS SANCTIONED**

1. Student project proposal on “**Biosequestration of carbon by green walls using mosses**” submitted to Tamilnadu state council for science and technology, Chennai. (7500 Rs.)
2. Student project proposal on “**Bioefficacy of common ferns against some coconut pests**” submitted to Tamilnadu state council for science and technology, Chennai. (7500 Rs.)
3. Student project proposal on “**Biofortification of millets with oyster mushroom for enhanced zinc bioavailability**” submitted to Tamilnadu state council for science and technology, Chennai. (7500 Rs.)

**REFERENCE**

**Dr. R. Kannan (retired)**

Associate professor and Head

Department of Botany

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I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.