

Dr. SREERANJINI.S  
Assistant Professor  
Department of Botany  
Sanatana Dharma College, Alappuzha  
688003, Kerala  
☎ (Mbl) 91- 9747100808  
sreeranjinis80@gmail.com

---

### **Professional Summary:**

Experience as Lecturer in the Dept of Botany, Bishop Abraham Memorial College, Thuruthicad, Mallapally, Pathanamthitta, Kerala, India from September 2006 to June 2009.

Research experience in the field of plant tissue culture and plant cell culture techniques as Research Scholar in the Dept of Botany, University of Kerala, Thiruvananthapuram, Kerala, India from July 2009 to August 2013.

Assistant Professor (AGP 6000), Department of Botany, S D College, Alappuzha, Kerala (June 9, 2014-2018)

Assistant Professor (AGP 7000), Department of Botany, S D College, Alappuzha, Kerala (June 9, 2018-till date)

### **EDUCATION**

Ph.D ( Botany)  
Department of Botany  
(University of Kerala)

### **Administrative Responsibilities**

1. Warden, Sanatana Dharma College Ladies Hostel (From June 2019 till date)

### **RESEARCH GUIDANCE/ SUPERVISION**

M.Sc project	30 (Completed)
Ph.D	03 (Ongoing)

### **PROJECTS**

#### **➤ UGC Minor Research Project**

1. Evaluation and propagation of Citron (*Citrus medica* L.). Ref No. MRP/14-15/KLKE001/UGC-SWRO, completed.

## Paper published

### Published Research Papers

1. Jayasree S, Sincy Joseph, S. Sreeranjini (2022) Ecological Study of Blue Green Algae of Canal Waters in Alappuzha, Kerala. The Journal of Plant Science Research 38(1)1-8.
2. Sreeranjini S, Siril E A (2019) Anthraquinone production in cell cultures of *morinda citrifolia* L. through co-treatment with elicitors and precursors. Journal of Cytology and Genetics. 20: 13-18.
3. Sreeranjini S, Akshaya Pradeep P S. (2019) Dyeing of cotton with natural dyes from Bluebell vine, Globe amaranth, Marigold and Shoe flower. International Journal for Scientific Research in Biological Sciences. 6:86-91
4. Sreeranjini S, Siril E A. (2015) Optimising elicitors and precursors to enhance Alizarin and Purpurin production in adventitious roots of *Morinda citrifolia* Linn. Proceedings of the National Academy of Sciences India Section-B Biological Sciences. Springer. 85:725. Impact factor- 0.396 (Thomson Reuters).
5. Sreeranjini S, Siril E A. (2014) Field Performance and genetic fidelity evaluation of Micropropagated *Morinda citrifolia* L. Indian Journal of Biotechnology 13:121-130. 0.287 (jcr 2015) H Index – 23.
6. Sreeranjini S, Siril E A (2013) Production of anthraquinones from adventitious root derived callus and suspension cultures of *Morinda citrifolia* L. in response to auxins, cytokinins and sucrose levels. Asian Journal of Plant Science and Research 3: 131-138. Impact factor 0.676 (GIF 2015).
7. Sreeranjini S, Siril E A (2011) Evaluation of anti-genotoxicity of the leaf extracts of *Morinda citrifolia* Linn. Plant Soil Environment 57: 222–227. Impact factor- 1.272 (Thomson Reuters).

### Book Chapters

1. Jose Mathew, M. Salim Pichan, S. Sreeranjini, and S. Pooja (2022) Threatened Detarioideae Members of South Western Ghats. Imperiled: The Encyclopedia of Conservation, Elsevier. 724–734.

### Paper Presentations (Oral/Poster) in National and International Symposium/ seminars

1. Presented a poster entitled on Evaluation of anti-genotoxicity of the leaf extracts of *Morinda citrifolia* L. during the Golden Jubilee National Symposium on ‘Plant Diversity, Utilization and Management’ held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram, India on May 27-29, 2010.
2. Presented a poster entitled on Preliminary studies on micropropagation of *Morinda citrifolia* L. during ‘1<sup>st</sup> Kerala Women’s Science Congress’ held at St. Theresa’s College, Ernakulam, Kerala, India on August 10-12, 2010.

3. Presented a poster entitled on *Ex vitro* rooting of micropropagated shoots of *Morinda citrifolia* L. during International Symposium on 'Genomics of Crops, Medicinal plants and Microbes' held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram, India on May 29-31, 2011.
4. Presented a paper (oral) entitled on Anthraquinone production from callus and cell suspension cultures of *Morinda citrifolia* L. during International Seminar on 'World Bioheritage Concerns Over Climate Change, With a Special Reference to Ethnic Vegetables' held at Department of Botany, Sree Narayana College, Chempazhanthy, Thiruvananthapuram, India on September 7-8, 2012.
5. Presented a paper (oral) entitled on An efficient method for the micropropagation of *Morinda citrifolia* L. and evaluation of genetic fidelity of clonal plants during International Symposium and xxii Annual Conference of Indian Association for Angiosperm Taxonomy on ' Innovative prospects in Angiosperm Taxonomy (ISIPAT-2012) held at Department of Botany, Sant Gadge Baba Amravati University, Amravati, Maharashtra, India on October 28-30, 2012.
6. Presented a paper (oral) entitled on Elicitors and precursors enhanced production of anthraquinones in cell suspension cultures of *Morinda citrifolia* L. during 16<sup>th</sup> All India Congress of Cytology and Genetics and National Symposium on Gene, Environment and Health, held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram, India on October 22-24, 2013.
7. Presented a paper (oral) entitled on Enhanced anthraquinone production in cell cultures of *Morinda citrifolia* L. through co-treatment with elicitors and precursors' in the U G C sponsored 'National Seminar on New Frontiers in Molecular Biology' held at Mar Athanasius College, Kothamangalam, Kerala on December 12-13, 2013.
8. Meera N and Sreeranjini S (2017) Studies on Germination and Antimicrobial properties of *Citrus medica* L. Paper presented in UGC sponsored national seminar on "Bioprospecting A Quest for natural solutions. Organized by Department of Botany, CMS College Kottayam. December 5 and 6, 2017.
9. Akhila K N and Sreeranjini S (2017) Antigenotoxicity and Antimicrobial activity of *Nigella sativa* L. Paper presented in UGC sponsored national seminar on "Bioprospecting A Quest for natural solutions. Organized by Department of Botany, CMS College Kottayam. December 5 and 6, 2017.
10. Neeraja S and Sreeranjini S (2019) Effect of different agar substituents in mass multiplication of *Bacopa Monnieri* (L.) Pennel., Wettst. Paper presented in National Seminar on Plant systematics : Current scenario and Future prospects. Organized by Department of Botany, Sree Neelakanta Govt.Sanskrit College, Pattambi. October 24 and 25, 2019.

11. Smridina Ramesh M V and Sreeranjini S (2020) Mutagenic action on seed germination and growth in *Abelmoschus esculentus* (L.). Paper presented in RICERIA National online student research project presentation organized by St Joseph's College for Women, Alappuzha in association with kerala Sasthra Sahithya Parishath. 18<sup>th</sup> August to 24<sup>th</sup> August 2020.
12. Athira S and Sreeranjini S (2021) Histochemical localization of secondary metabolites in *Sphenodesme involucarata var paniculate* (C B Clarke) Munir. Paper presented in International webinar on Phytochemistry- Impacts and applications. 27<sup>th</sup> to 28<sup>th</sup> October 2021.
13. Lakshmi Raj (2021) Evaluation of variations among Portulaca Species. Paper presented in RICERIA National online student research project presentation organized by St Joseph's College for Women, Alappuzha in association with kerala Sasthra Sahithya Parishath. 05<sup>th</sup> August to 11<sup>th</sup> October 2021.
14. Pooja S and Sreeranjini S (2021) Histochemical localization of secondary metabolites in *Cynometra beddomei* Prain - A Critically Endangered Legume Tree. Paper Presented in National Seminar on Biodiversity Conservation and Ecosystem restoration organized by Biodiversity Club of Department of Botany ,Vimala College (Autonomous),Thrissur. 10 December 2021.
15. Akhil Ashokan and S.Sreeranjini (2021) Histochemical localization of secondary metabolites in *Acrotrema arnottianum* wight. Paper Presented in National Seminar on Biodiversity Conservation and Ecosystem restoration organized by Biodiversity Club of Department of Botany ,Vimala College (Autonomous),Thrissur. 10 December 2021.
16. Athira S and Sreeranjini S (2023) "Phytochemical screening of *Sphenodesme involucrata var.paniculata* (C.B.Clarke) Munir, An ethnomedicinal plant." International Conference on Emerging Trends in Plant Science Research. Organized by Catholocate College Pathanamthitta March 6-7 2023
17. Akhil Ashokan and S.Sreeranjini (2024) In vitro callus culture and phytochemical screening of an ethnomedicinal plant *Acrotrema arnottianum* wight. 45 annual meeting of plant tissue culture association (india) & symposium on recent advances in plant biotechnology RAPB – 2024, Pondicherry University.

### **Workshops attended**

1. Participated and conducted laboratory demonstration in International Workshop on 'Molecular Markers and Genome Analysis in Plants' held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram on March 12-16, 2013.
2. Participated in the workshop on 'Biodiversity inventory on a selected area in the North Campus, University of Kerala' held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram on March 29, 2011.
3. Participated in the one day workshop "Digital tools in Research Methodology" organized by Research monitoring committee, Sanatana Dharma College, Alappuzha. 18<sup>th</sup> July 2019.
4. Participated in 2<sup>nd</sup> National workshop on Algal Taxonomy and culturing' organized by The post graduate and research department of Botany, Catholicate College, Pathanamthitta in association with Mahatma Gandhi University, Kottayam. 27<sup>th</sup> to 28<sup>th</sup> September 2019.
5. Participated in National workshop on Tools and techniques in Advanced Plant Science Research organized by Department of Botany, University of Kerala. 5<sup>th</sup> to 12<sup>th</sup> December 2019.

### **STUDENT INTERNSHIP PROGRAMMES**

1. JAYASREE S, Ph.D. student of MAHARAJA'S COLLEGE, ERNAKULAM has successfully completed her Aspire Scholarship Project/Internship entitled 'ECOLOGICAL STUDY OF BLUE GREEN ALGAE OF CANAL WATERS IN ALAPPUZHA, KERALA' within the stipulated month(s) from 12-08-2021 to 21-12-2021 under the guidance of Dr.S.Sreeranjini.

### **FACULTY DEVELOPMENT PROGRAMMES**

1. Successfully completed short term faculty development programme on 'How teachers can make a difference' organized by ST.Teresas College, Ernakulam and conducted by Teaching Learning Centre, Indian Institute of Technology, Madras. 3<sup>rd</sup> to 7<sup>th</sup> August 2020.
2. Faculty Development Programme on "Online Education in Higher Education Institutions" organized by the Kerala State Higher Education Council in association with Educational Multimedia Research Centre, University of Calicut through online mode from 19-23 October, 2020.

### **AWARDS**

- Best oral presentation award for the paper 'Enhanced anthraquinone production in cell cultures of *Morinda citrifolia* L. through co-treatment with elicitors and precursors' in the U G C sponsored 'National Seminar on New Frontiers in Molecular Biology' held at Mar Athanasius College, Kothamangalam, Kerala on December 12-13, 2013.

### **INVITED LECTURES**

- Invited talk on “ Plant Secondary Metabolites- *In vitro* production and its applications” on 10-02-2023 at Department of Botany, Catholicate College, Pathanamthitta.
- Acted as a resource person and delivered a lecture on the topic “ Adventitious root culture – An *in vitro* technique for secondary metabolite production” on 22-11-2016 in the National workshop on “Plant Tissue Culture, Cell Culture and Cryopreservation Technology” held at Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram.