



BIO DATA OF FACULTIES

NAME : Dr. RESHMI. S

DESIGNATION : ASSISTANT PROFESSOR

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HIGHEST QUALIFICATION: M Sc, Ph D, B Ed



EDUCATIONAL QUALIFICATIONS:

	COURSE	INSTITUTION/ UNIVERSITY	YEAR OF PASSING
UG	BOTANY	KERALA UNIVERSITY	2004
PG	BIOTECHNOLOGY	PERIYAR UNIVERSITY	2006
PhD	BIOTECHNOLOGY	KERALA UNIVERSITY	2020
OTHERS	B Ed in BIOLOGICAL SCIENCE	TAMILNADU TEACHERS EDUCATION UNIVERSITY	2022

TOTAL WORK EXPERIENCE: 5 Years of Research Experience and 3 years of Teaching Experience

ACADEMIC EXPERIENCE: 3 years

INDUSTRY EXPERIENCE: 6 months

RESEARCH PROFILE

Ph D Topic: *"In vitro studies on Rauwolfia hookeri S.R.Sriniv & Chithra., for ex situ conservation and production of bioactive secondary metabolites"*

GUIDANCE EXPERIENCE:

1. M Sc Biotechnology Project

- ❖ Toxicological impacts of insecticide Imidacloprid on *Euryhaline species- pseudetroplus maculatus*
- ❖ *Phytochemical analysis and pharmacological evaluation for Osteoprotective activity of Cissus quadrangularis*

2. B Sc Biotechnology Project

- ❖ Preliminary assessment of phytochemical constituents, antioxidant and antimicrobial potential of methanolic leaf and stem extracts of *Simarouba glauca* (paradise tree), a valuable medicinal plant

AREA OF INTEREST: PLANT BIOTECHNOLOGY, IMMUNOLOGY AND MOLECULAR BIOLOGY

PUBLICATION LIST :

- ✓ Sija, S. L., Reshmi, S. and Athira, T. S (2024). Phytochemical screening and pharmacological evaluation of *Nymphae pubescens* Willd: An aquatic plant resource for drug development, Pariplex – Indian Journal of Research, Vol. 13: 05
- ✓ Reshmi. S (2023) Production of Indole alkaloids in adventitious root cultures of *Rauvolfia hookeri* S.R.Sriniv & Chithra., a rare and endemic medicinal plant, Holistic Thoughts Multidiplinary Annual Research Journal (Peer Reviews) of Sree Narayana College, Kollam, Vol.XXI,1
- ✓ Fathima Firdouz. S, Ramya R Prabhu, Nisha, Reshmi.S, Dr.Mary Reena (2021) Phylogenetic analysis of Cassia species in Kerala., *International Journal of Multidisciplinary Research Review*, Vol.1, 8

- ✓ Reshmi, S. and Sudha, C.G., 2018. Qualitative and quantitative analysis of Reserpine, Ajmaline and Ajmalicine in the Leaf and Stem of *Rauvolfia hookeri* S. R. Sriniv. & Chithra., a Rare and Endemic Medicinal Plants of Southern Western Ghats. *Trends in Biosciences*, 11(45), pp.4305-4310.

BOOK CHAPTER

- ✓ Sudha, C.G. and Reshmi, S., 2017. Biotechnological approaches for *ex situ* conservation and sustainable utilisation of selected rare and heavily traded medicinal plants in India In. K.V. Peter (Ed). *Horticultural Sciences Perspectives and Applications*, pp.39-91

PAPER AND POSTER PRESENTATIONS

- ❖ Presented a paper entitled “Production of ajmaline in callus culture of *Rauvolfia hookeri* S.R.Sriniv. & Chithra., a rare and endemic medicinal plant in Southern Western Ghats” on International conference on emerging areas of Biotechnology for Human welfare and Bio-entrepreneurship (ICEHE. 2018)
- ❖ Presented a paper entitled “Local climate changes influences flowering, fruit set and seed germination of *Rauvolfia hookeri* southern western ghats for conservation” on 4th Indian Biodiversity congress (2017).
- ❖ Presented a poster entitled “Phyto-constituents and DPPH- scavenging antioxidant property of leaf derived callus cultures and leaf of field-grown plants of *Rauvolfia hookeri* S. R. Sriniv. & Chitra.,a rare and endemic medicinal plant of Southern Western Ghats” on Kerala Science Congress, 2017.
- ❖ Presented a paper entitled “Local climate changes influences flowering, fruit set and seed germination and antioxidant activity of *Rauvolfia hookeri*, a rare and endemic medicinal plant of southern western ghats” on seminar competition at JNTBGRI in connection with 103rd Birthday celebration of Prof. A. Abraham (2017).
- ❖ Presented a paper entitled “Production of indole alkaloids in callus and normal root culture of *Rauvolfia micranthahook. f.*, a rare and endemic medicinal plant”. Kerala Science Congress, 2016

- ❖ Presented a paper entitled “Production of ajmaline and ajmalicine in the callus cultures of *Rauvolfia micrantha*, a rare and endemic medicinal plant” on Botanica 2015.
- ❖ Presented a poster entitled “Establishment of *in vitro* seed germination protocol of *R. hookeri* a rare and endemic medicinal plant of southern Western Ghats” International conference on medicinal plants and herbal drugs for human welfare (ICMP-2015).

COMMUNICATED PAPERS

- Sija, S. L., Reshmi, S. and Athira, T. S (2024). Phytochemical screening , antioxidant and anticancer property of *Saraca asoca* (Roxb.)Willd. Research Journal of Biotechnology
- Ambili Savithri, Asha Sasi kumar, Reshmi Suseela and Remya Ambika Suseelans (2024), Hepatoprotective and antioxidant activity of *Garcinia mangostana* l. pericarp extract in acetaminophen induced hepatotoxicity in human hepatic hepg2 cell line, Plant Science Today Journal

WORKSHOPS ATTENDED:

- “National workshop on Real Time PCR and its application” conducted at Department of Botany, University of Kerala.
- “Training workshop on Qualitative Research and techniques using IBM SPSS” conducted by Christ University.
- “One day National Seminar on Phytochemistry” organized by College of Pharmaceutical Sciences, Government Medical College , Thiruvananthapuram.
- “Indo-Mexican seminar on Emerging Trends in Bio-resource Utilization and Enzyme Technology” at Jawaharlal Nehru Tropical Botanic Garden and Research Institute.
- “E-Workshop on Molecular Taxonomy- DNA Barcodes”, 25-29th October 2021organised by Biosrishti online life science solutions

TRAININGS ATTENDED / FDP'S / REFRESHER PROGRAM:

- ✓ **Conducted “Hands on training on Plant Tissue Culture” at Sree Narayana College, Kollam on 24th March 2023.**
- ✓ **Training on Plant Tissue Culture at Govt. College of Agriculture,Vellayani for 3 months.**
- ✓ **Training on Molecular Biology at Rajiv Gandhi Centre for Biotechnology for 3 months.**
- ✓ **Attended training on Animal and Plant Tissue Culture organized by VJ BIOTECH, Coimbatore from 01/11/2020 to 10/11/2020.**
- ✓ **Attended National Webinar on ‘Discovery and Development of Phyto- Pharmaceuticals with special reference to Reverse Pharmacology, System Biology and Nutrigenomics’ November 2nd , 2020 organisedby Kerala Academy of Sciences, Thiruvananthapuram**

AWARDS AND ACHIEVEMENTS:

- ❖ **Dr. MVN PANIKKAR AWARD for best paper presentation (2015)**
- ❖ **Qualified Kerala University PhD entrance examination (2009)**
- ❖ **Qualified Biotech Consortium India Ltd entrance examination (2010)**