



BIO DATA OF FACULTIES

NAME : Dr. RESHMI S
DESIGNATION : Assistant Professor
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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
Ph D	Biotechnology	Kerala University	2021
B Ed	Biological Science	Tamilnadu Teachers Education University	2022

TOTAL WORK EXPERIENCE : 4 years of research experience and 1.7 years of teaching experience

1. Worked as **Assistant Professor** (on contract basis) in the Department of Biotechnology at **Sree Narayana College, Kollam** (from 12th September 2022 to 31st March 2023)
2. Worked as **Research Associate** in **Bios Research Centre**, Pattoor, Thiruvananthapuram
3. Worked as **Teacher cum Instructor** in add on course in Biotechnology at **St. Xaviers' College**, Thumba. Thiruvananthapuram from 20-01- 2020 to 25-01-2021.
4. Worked as **Project fellow** at **Govt. College of Agriculture**, Vellayani in the network Project entitled “**Crop response studies using Open Top Chambers in selected crops**” from 07-08-2012 to 31-10-2012.
5. Worked as **Skilled Assistant** at **Govt. College of Agriculture**, Vellayani in the project entitled “**Production and distribution of quality planting materials tissue culture plants**” from 10-10-2011 to 05-04-2012.
6. Worked as **Skilled Assistant** at **Govt. College of Agriculture**, Vellayani in the Project entitled “ **Large Scale production of Tissue culture Banana**” from 01 - 01-2011 to 30-04-2012.
7. Worked as **Junior Research Fellow** at **JNTBGRI**, Palode in the Project “**Infrastructure creation for the development of a microbial culture collection**” from 03-12-2007 to 31 -03-2009
8. Worked as **Training Assistant** at **Onnattukara Regional Agriculture Research Station (ORARS)** Kayamkulam from 15-11-2006 to 26-03- 2007.

GUIDANCE EXPERIENCE : B.Sc 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, Molecular Biology and Genetics

PUBLICATION LIST:

- ✓ **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 Multidisciplinary 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).

(Attach reprints)

WORKSHOPS ATTENDED:

- **“E-Workshop on Molecular Taxonomy- DNA Barcodes”**, 25-29th October 2021 organised by Biosrishti online life science solutions.
- **“One day National Seminar on Phytochemistry”** organized by College of Pharmaceutical Sciences, Government Medical College , Thiruvananthapuram (February 2017).
- **“Training workshop on Qualitative Research and techniques using IBM SPSS”** conducted by Christ University (September 2015).

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- **“National workshop on Real Time PCR and its application”** conducted at Department of Botany, University of Kerala (August 2015).
- **“Indo-Mexican seminar on Emerging Trends in Bio-resource Utilization and Enzyme Technology”** at Jawaharlal Nehru Tropical Botanic Garden and Research Institute.

TRAININGS ATTENDED / FDP’S / REFRESHER PROGRAM:

- ✓ 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 organised by Kerala Academy of Sciences, Thiruvananthapuram.

TRAININGS CONDUCTED:

- ✓ Conducted “Hands on training on Plant Tissue Culture” at Sree Narayana College, Kollam on 24th March 2023.

AWARDS AND ACHIEVEMENTS:

- ❖ **Dr. MVN PANIKKAR AWARD** for best paper presentation (2015)