

SUJITHA R

Ph.D. in Genetics and Plant Breeding



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Carrier objective

To obtain a position that challenges me and provides me the opportunity to reach my full potential professionally and personally in your organization and one in which practices collaborative, leadership, integrity and honesty.

Qualifications

Qualification	Duration	OGPA (%)	College	Univeristy
PhD in Genetics and Plant Breeding	2020- 2024	8.90 (89%)	AC & RI, Coimbatore	TNAU, Coimbatore
M.Sc in Genetics and Plant Breeding	2018 - 2020	9.32 (93.2%)	AC & RI, Killikulam	TNAU, Coimbatore
B.Sc.(Agriculture)	2014 - 2018	9.00 (90%)	AC & RI, Eachangkottai	TNAU, Coimbatore

- Qualified ASRB NET-2021 with 56.89%

1. Doctoral thesis project

- Genetic improvement and Identification of elite breeding lines in Pearl millet (*Pennisetum glaucum* R Br.) for yield and nutritional quality traits

2. Master's thesis project

- Genetic diversity and association studies for blast resistance in rice (*Oryza sativa* L.)

3. Bachelor's degree project

- Development of pre-breeding materials in blackgram (*Vigna mungo* L Hepper) for higher yield alternative to ADT 5

Experiential leaning project:

1. Micro propagation of Tube rose (*Polianthes tuberosa*) through tissue culture method
2. Commercial mushroom cultivation techniques

Publications

- Sujitha, R., Iyanar, K., Ravikesavan, R., Chitdeshwari, T., Boopathi, N. M., & Rasitha, R. (2024). "Insights into yield stability: A comparative analysis of regression, AMMI indices and Biplot Methods in pearl millet". *Electronic Journal of Plant Breeding*, 15(1), 42-52.
- Sujitha, R., Pillai, M. A., Kannan, R., & Shoba, D. (2020). "Genetic diversity and association studies in Rice (*Oryza sativa* L.)". *Journal of Pharmacognosy and Phytochemistry*, 9(6), 487-492.

Book chapter

1. “Genomic selection : An efficient tool for breeding complex traits in crop species” : Plant sciences a glance . ISBN : 978-93-5834-811-8.

Area of Excellence

- ✓ **Data analysis** - PB tools, TNAUSTAT, OPSTAT, GRAPES, R software, DARwin, QTL Ici Mapping
- ✓ **Molecular analysis** – SSR marker analysis
- ✓ **Instruments handling** – ED XRF, NIR, UV Spectrophotometry
- ✓ **Microsoft office suite** – Micro soft excel, Power point

Conferences

1. Participated and presented paper on “**Identification of rice genotypes for blast resistance under field and artificial conditions**” in the **2nd Indian Rice Congress on Transforming Rice Research: Recent Scientific Developments and Global Food Crisis**, at ICAR- NRRI, Cuttack, Odisha, India
2. Participated and presented paper on “**Characterization of rice genotypes for blast resistance by using functional SSR markers**” in **International conference on Biotechnology trends and Future prospects (BTFP)** organized by Department of Plant biotechnology, University of Agricultural Sciences, Bangalore.
3. Participated and presented paper on “**Phenotypic and genotypic dissection of Green gram genotypes for YMV resistance**” in **Corteva Plant Science Symposium Series: Crop Genomics and Data Science - Challenges and Opportunities** held at Tamil Nadu Agricultural University, Coimbatore.
4. Participated and presented paper on “**Characterization of pearl millet genotypes for grain Fe and Zn content through rapid screening method**” in **International Millets conference & Futuristic Food Expo 2023 (IMCFFE)** held at Tamilnadu Agricultural University, Coimbatore.
5. Participated and presented paper on “**GWAS: A biotech tool to unravel the novel genetic variants for biotic stresses in crop plants**” in **8th International conference on Recent advances in Bioscience** organized by KSG college of Arts and Science, Coimbatore.
6. Participated and presented paper on “**Identification of blast resistant lines in rice (Oryza sativa L.) using SSR Markers through molecular diversity analysis**” in **8th Agricultural Graduate Students Conference (AGSC 2023)** organized by School of Post Graduate studies, Tamil Nadu Agricultural University, Coimbatore.
7. Participated and presented paper on “**Biodigester – A complete solid waste management mechanism**” in **National conference on achievements, challenges, and opportunities in environmental biotechnology for sustainable livelihood security** organized by Tamilnadu scientific research organization, Pudukottai.
8. Participated and presented paper on “**Effect of explants and plant growth regulators on micro-propagation of Tuberose in National conference on enhancing entrepreneurship and innovation in biotechnology for sustainable development** organized by Tamilnadu scientific research organization, Pudukottai.

Workshops

1. **“Genomics of abiotic stress in crop plants”** organized by Centre for Plant Breeding and Genetics, TNAU, Coimbatore under United States India Educational Foundation (USIEF) program
2. **“National conference on Harnessing and strengthening value chain of millets in Tamil Nadu”** organized by The Associated Chambers of Commerce and Industry of India (ASSOCHAM) in collaboration with Ministry of Food processing, Govt of India and Govt of Tamil Nadu
3. **“BIO INNOVA 2018”** organized by AC&RI, Madurai, TNAU, India
4. **“Entrepreneurial Opportunities in Herbal Products”** organized by Entrepreneurship Development and Innovation Institute at TNAU, Coimbatore
5. **“Career Planning”** organized by AC&RI, Madurai, TNAU, India
6. **“Technical writing Skills”** organized by AC&RI, Madurai, TNAU, India
7. **“Next generation sequencing and Big Data Analytics”** organized by AC&RI, Madurai, TNAU, India
8. **“Advanced statistics for technical enhancement in Agricultural Research”** organized by AC&RI, Madurai, TNAU, India
9. **“Big data analytics for agricultural sciences”** organized by AC&RI, Madurai, TNAU, India

Technical workshops

1. **“Plant tissue culture techniques”** in GENEWIN BIOTECH, Hosur
2. **“Online training on Spectra Analyser instrument”** held at Centre for Plant Breeding and Genetics, TNAU, Coimbatore
3. **“Molecular modeling and Docking”** organized by Centre for Plant molecular biology and Biotechnology, TNAU, Coimbatore
4. **“National Workshop on Genome Wide Association Studies”** organized by ISCB-DBT Pigeonpea Network, AC&RI, Killikulam, TNAU, India
5. **“NGS for Gene Discovery and Analysis”** organized by AC&RI, Killikulam, TNAU, India

Awards

1. **Young scientist award** on “2nd International conference on modernized technologies for climate change in agriculture (ICMTCA’2024)”
2. Secured **3rd place** in Killikulam Agribusiness Incubation forum for presenting Projects related to entrepreneurship development

Membership

- ✓ Life time member in **Indian Society of Plant Breeders**

Declaration

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

Yours sincerely



(SUJITHA R)