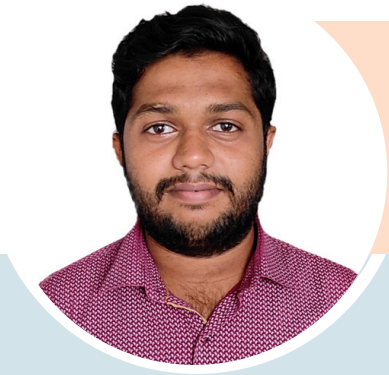

UMABALAN J

CONTACT

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166 B, Nehru Nagar,
Thiruthuraipoondi, Thiruvarur Dt

SKILLS

- Genetics and Plant Breeding (Molecular breeding, Quantitativa genetics and Tissue culture)
- Data analysis (R-studio, STAR, PB tools and DosBox)
- Experimental Designs and Field experience
- Crop improvement strategies

REFERENCES

- Dr. S. Thirumeni, Professor (Plant Breeding and Genetics), Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal.
  s_thirumeni@rediffmail.com
  9443573371
- Dr. S. Nadaradjan, Professor (Crop Physiology), Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal.
  nadaradjans@gmail.com
  9944015690

QUALITIES

- Team worker
- Adaptability
- Leadership
- Patience

01 PROFESSIONAL PROFILE

"Motivated and detail-oriented postgraduate in Genetics and Plant Breeding with a strong foundation in plant breeding, genetic analysis, and statistical computing. Statistical analysis using R, and specialized tools like STAR, DosBox, and PB Tools. Skilled in research methodologies and data interpretation. Passionate about teaching, mentoring, and contributing to academic and research excellence in plant sciences."

02 EDUCATION

M. Sc. (Agri.) Genetics and Plant Breeding

Pandit Jawaharlal Nehru College of Agriculture & Research Institute, Karaikal.
Thesis submitted

B. Sc. (Hons.) Agriculture

Mother Terasa College of Agriculture, Pudukkotai
OGPA - 8.23

03 ACHIEVEMENTS

- Received two gold medals for exceptional performance in B.Sc. (Hons.) Agriculture, highlighting dedication and proficiency in the field.
- Participated in various agricultural workshops, Training programme and conferences to enhance knowledge in Genetics and Plant Breeding.
- Hands on experience in hybridization program in various crops species (Black gram, Rice and Sesame)
- Conducted a comprehensive thesis project on the genetic diversity in black gram genotypes for salt tolerance, contributing valuable insights to the field of Plant Breeding.

04 AWARDS

- Best poster presentation received during National Seminar on Barnyard Millet - A Promising Crop for Future Needs by TNAU, Madurai on November 10, 2021
- Young Researcher Award at International Conference on Climate Resilient Agriculture for Sustainable Agricultural Productivity at Mother Teresa college of Agriculture, Pudukkottai during March 31, 2023
- Emerging Scientist Award at international conference on current innovation and technological advances in agriculture and allied sciences at GKU, Punjab during august 29- 31, 2024.

TRAINING

- DST-FIST sponsored Training programme on "Molecular Technique: From Basics of Applications" held on February 27, 2025
- 21 days international training on Agriculture in Future & Future in Agriculture organized by Rajmata vijayraje scindia krishi vishwavidyalaya Gwailor in collaboration Junagadh Agricultural University Gujarat, ICRISAT Hyderabad, ICAR-ATARI Jabalpur & AGRI MEET foundation U. P. from 20 November to 10 December, 2023
- One week virtual professional development programme on "Statistical Data Analysis using R and R studio" organised by Department of Statistics, Muthayammal College of Arts and Science (Autonomous) Rasipuram on 16-22 October, 2023

LANGUAGE

Tamil ●●●●●●

English ●●●●●●

05 PUBLICATION

- **Book chapter on Doubled Haploid Rice breeding**

This chapter discusses the application of doubled haploid (DH) technology in rice breeding to address challenges posed by climate change and resource depletion. DH technology accelerates the development of stable, homozygous lines by inducing haploids through methods like anther, microspore, or ovary culture, followed by chromosome doubling. This approach shortens breeding cycles, facilitates gene mapping, and aids in developing stress-tolerant rice varieties. Advancements in genome editing and in vivo haploid induction methods are enhancing the efficiency and applicability of DH technology in rice improvement.

- **Popular article on Glory of Guinea grass**

Since a demand for animal derivan products are increasing, guinea grass will play a remarkable forage plant that has been gaining recognition for its exceptional qualities in feeding livestock. As they are grasses, it was grown round the year under assured irrigation. It is highly palatable and excellent quality tropical grass used as fodder for ruminants in grazed pastures and its impressive nutritional profile popularize this fodder.

- **Popular article on Jubliant Johnson grass**

Though Johnson grass is the most prominent weed species affecting growth and cultivation of maize and sorghum, Johnson grass is high-quality forage and cattle tend to select it in pastures to graze.

06 CONFERENCES ATTENDED WITH PAPERS

- An overview of plant genetic resources: A treasure for crop improvement at "International Conference on Climate Resilient Agriculture for Sustainable Agricultural Productivity" held at Mother Teresa College of Agriculture, Pudukkottai on March 31, 2023.
- Genetic variation for drought tolerance in Kodo millet on "International seminar on Millets - Sensitizing millet farming, consumption and nutritional security" held at PAJANCOA & RI, Karaikal on November 9 & 10, 2023. Standardization of Protocol for Micropropagation of the local banana variety ' Rasthali' at "National Symposium on Recent Advances in Plant Biotechnology" held at Pondicherry University, Pondicherry during 23-25 January, 2024.
- Screening for seedling stage salt tolerance in Black gram (Vigna mungo L.) at 14th NABS National conference on "Innovation in biology and technology for their application in agriculture and animal science for food security during 28 and 29 January 2025.
- Assessment of Black gram (Vigna mungo L.) Accessions for Seedling Stage Salt Tolerance under Hydroponic System at International Conference on Advances in Plant Health Improvement for Sustainable Agriculture (APHISA 2025) held at VOC AC & RI, Killikulam during February 14-16, 2025

UMABALAN J