



Palanisamy Veeraya

Researcher

Professional biology researcher with 4 years of experience, improving accurate research and problem-solving skills. Highly adaptive to diverse working conditions. Top teamwork and leadership capabilities. Organized and nicely-spoken, capable of work as member of go-practical group

Contact

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Address

WZ249A, Third Floor,
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Education

2013

M.Sc.Plant Biotechnology

Bharathidasan University,
Secured Marks- 64 %

2011

B.Sc.Botany

National college and
Secured total marks -66%

Language

English

Tamil

Hindi

Summary of skills

- Proficient in molecular techniques such as DNA/RNA extraction, Gel electrophoresis, PCR, Real Time- PCR, DNA sequencing, and Bacterial and Plant transformation
- Proficient in biopesticide and biofertilizers analysis, spore counting, bacterial and fungal mass production
- Experienced in soil analysis (NPK estimation)
- Experienced in analyzing biological/analytical chemical entities by chromatography (HPLC,GC) and spectrophotometric methods
- Have expertise in sample collection, screening, documentation and analyzing data results
- Experienced in protein extraction and quantification of protein using spectrophotometer, ELISA and western blotting
- Skilled in molecular breeding, marker assisted selection, heterosis breeding, and plant tissue culture
- Proficient in using MS office tools

Work Experience

Sept 2021 to till date

National Institute for Plant Biotechnology

Junior Research fellow

- Engineering of new constructs for plant transformation
- Optimizing plant tissue culture for the development of transgenic mustard
- Performed real-time PCR and Data analysis
- Sample collection and fieldwork
- Performing DNA cloning tests
- Running PCR and sequencing analysis
- Synthesizing and cloning of desired SgrNA and Cas9 for CRISPR Cas9-based genome editing
- Performed protein expression studies using Western blotting

Junior Research fellow

Indian Agricultural Research Institute, New Delhi, India

Sep 2018 - June 2021

- Optimized hydroponic system for the evaluation of nitrogen use efficiency in maize
- Performed Real-time PCR and data analysis
- Performed physiological and Biochemical assays
- Report writing
- Performed Maize crossing experiments
- Provided training and technical support to the interns, research fellows and Ph.D. Scholar

Lab Technician

Biocontrol lab, Indian Agricultural Research Institute, New Delhi, India

September 2014 to June 2015

- Assessed Biocontrol activity of *Trichoderma harzianum* against *Rhizoctonia solani* in Rice field
- Maintenance of bacterial and fungal culture like *Pseudomonas* and *Trichoderma*
- Testing of biopesticide and biofertilizers quality parameters like CFU, pH, contamination level
- Colony and spore counting of bacterial and fungal culture

Academic Achievements

- Qualified CSIR-UGC-NET (Life Science) in 2018 (All India Rank -77)
- Received Summer Research Fellowship (2012) from the Indian Academy of Sciences

Publications

- Mallikarjuna, M.G., Sharma, R., Palanisamy, V., Tyagi, A., RaoA.R., Lohithaswa H. C., Chinnusamy, V.,(2022),Next-Generation Breeding Approaches for Stress Resilience in Cereals: Current Status and Future Prospects,Heat Stress In Food Grain Crops: Plant breeding
- Mallikarjuna, M.G., Sharma, R., Palanisamy, V., Tyagi, A., RaoA.R., Lohithaswa H. C., Chinnusamy, V.,(2022), Evolutionary and functional characterization of glutathione peroxidase showed splicing mediated stress responses in Maize, Plant Physiology and Biochemistry <https://doi.org/10.1016/j.plaphy.2022.02.024>.
- Mallikarjuna, M.G., Bhat, J.S., Hossain, F., Veeraya, P., Tyagi, A., Karjagi, C.G.,Chandappa, L., (2020), Genetic Enhancement of Heat Tolerance in Maize Through Conventional and Modern Strategies, Heat Stress In Food Grain Crops: Plant breeding

References

- DR. M.G.MALIKARAJUNA,
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Indian Agricultural Research Institute (IARI),
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