

Dr. GAYATHRI G

Assistant Professor (Plant Breeding and Genetics), AICRP on Forage Crops and Utilisation, RARS(SZ), Vellayani

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Summary

I am undertaking research in forage legumes for yield improvement and abiotic stress tolerance.

Research Highlights

Experience

Joined Kerala Agricultural University as Assistant Professor (Plant Breeding and Genetics) in the year 2019

Education

- Graduated in Agricultural Science from Kerala Agricultural University (2002)
 - Post Graduation in Plant Breeding and Genetics from Kerala Agricultural University (2005)
 - Ph.D in Plant Breeding and Genetics from Kerala Agricultural University (2011)
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Area of Specialization

Crop Improvement, Molecular markers, Forage Crops

Research Projects

Ongoing

- Kerala State Annual Plan Project entitled Identification of *Stylosanthes* species suited for cultivation in Kerala
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Publications

Journal Articles

1. Arya S Nair and Gayathri G. 2022. Optimization of doses for Ethyl Methane Sulphonate (EMS) and analysis of M1 generation of fodder cowpea [*Vigna unguiculata* (L.) Walp]. *Pharma Innovation* 11(2):593-598
2. Amritha Varanya, Gayathri G, Arya K, Usha C Thomas, Pratheesh P Gopinath and Priyanka Hulsure.2022. Genetic variability and genetic parameters analysis of 143 fodder cowpea [*Vigna unguiculata* (L.) Walp] germplasm accessions for yield and yield attributing traits. *Pharma Innovation* 11(2):2595-2600
3. Priyanka Hulsure, Beena Thomas, Arya K, Gayathri G, Arya S Nair and Amritha Varanya.2022. Genetic analysis in grain cowpea (*Vigna unguiculata* (L.) Walp) for yield and quality. *Pharma Innovation* 11(3):

2394-2398

4. Thouseem N, Arya K, Gayathri G and Anju Mariam Joseph. 2022. Genetic variability, heritability and genetic advance for seed yield and yield associated traits in White seeded sesame (*Sesamum indicum* L.). *Pharma Innovation* 11(6): 385-388
5. Gayathri G and Dijee Bastian. 2016. Variability Studies in Sesame (*Sesamum indicum* L.). *The Andhra Agricultural Journal*. 63 (1): 75-78
6. Sani George, Dijee Bastian, Arya K, Gayathri G and Vidhu Francis Palathingal. 2010. Reproductive Biology in White Teak (*Gmelina arborea* L.). *The Andhra Agricultural Journal*. 57(3):313-315
7. Dijee Bastian, Gayathri G, Vidhu Francis Palathingal and K Arya. 2010. Combining Ability for Yield and BPH Resistance in Rice (*Oryza sativa* L.). *The Andhra Agricultural Journal*. 57(2):140-142
8. G Gayathri, K Arya, Dijee Bastian. 2009. Rapid multiplication of Fire Flamed Bush (*Woodfordia fruticosa* (L.) Kurz) through *in vitro* techniques. *Current Biotica*. 2(4): 453-460
9. P Sumarani, K Arya, Dijee Bastian, Gayathri G. and Vidhu Francis Palathingal. 2009. Genetic Variability in F2 and F3 of Bitter Gourd. *The Andhra Agricultural Journal*. 56(1):133-134
10. Achamma Oommen, M Bindu, K Arya, Dijee Bastian, G Gayathri and Vidhu Francis Palathingal. 2009. Correlation Studies in Cashew (*Anacardium occidentale* L.). *The Andhra Agricultural Journal*. 56(1):135-137
11. P Vidhu Francis, M T Kanakamany and G Gayathri. 2009. Yield Component Analysis in Diverse Rice Cultures. *The Andhra Agricultural Journal* 56(2):263-265

Student Guidance (Major Advisor/ Advisory Committee member)

M. Sc.

- Within KAU: Completed: 2 (Major advisor)
- Outside KAU: Completed : 2 (Major advisor)
- Within KAU: Completed: 3 (Advisory Committee member)
- Within KAU: Ongoing: 5 (Major advisor)
- Within KAU: Ongoing: 7 (Advisory Committee member)

Ph. D

- Within KAU: Ongoing : 1 (Major advisor)
- Within KAU: Ongoing : 6 (Advisory Committee member)

Other Institutional Responsibilities

- Currently assisting Academic Officer (UG) in day-to-academic matters of Undergraduate students at College of Agriculture, Vellayani
- Currently nodal officer for KSHEC Higher Education Survey at College of Agriculture, Vellayani
- Currently acting as Student Advisor/faculty mentor to 5 Undergraduate students.

Membership in Professional Associations

- Life member of Indian Society of Genetics and Plant Breeding
- Life member of Indian Society of Plant Genetic Resources
- Life member of Indian Society of Plant Breeders