

Dr. SEEJA G
Professor & Head
Genetics and Plant Breeding

Phone:

9446330968

Email:

seeja.g@kau.in

seejasreekmar@gmail.com

Summary

As a plant breeder, I have experience with breeding techniques in tomato, vegetable, and grain crops, including cowpea, snake gourd, bitter gourd, sugar cane, chilli, rice, Indigofera, orchids, and anthurium. I also have experience with tissue culture techniques in Vanilla, Cinnamon, Indigofera, and orchids. Current research interests include rice, orchid, and chilli breeding and the development of hybrids.

Research Highlights

Standardized protocol for tissue culture techniques in the tree spices like *Cinnamomum zeylanicum*

Co-Investigator in the development of two sugarcane varieties, namely Abhay and Aromal, released in 2015.

Developed breeding techniques for distant hybridization of wild orchids, standardized protocols for *in vitro* seed germination of wild orchids and their distant hybrids, and confirmed hybridity using molecular markers.

Experience

Joined Kerala Agricultural University as Assistant Professor (Plant Breeding and Genetics) in the year 1999

Education

- Graduated in Agricultural Science from Kerala Agricultural University (1992)
- Post Graduation in Plant Breeding and Genetics from Kerala Agricultural University (1995)
- Ph.D. in Plant Breeding and Genetics from Kerala Agricultural University (2018)

Area of Specialization

Plant Breeding and Genetics

Awards & Recognitions

1. KAU fellowship for doing M. Sc. and Ph. D. in Plant Breeding and Genetics
2. Qualified , ASRB, ICAR – National Eligibility Test in 1996 in Plant Breeding
3. Qualified , ASRB, ICAR – National Eligibility Test in 1997 in Plant Breeding
4. Award for poster presentation – International conference on insect science -2013
5. Award for paper presentation - in Indian Biodiversity Congress held at Pondicherry University from 10 to 12 March, 2017.

Research Projects

Ongoing

- One project
-

Completed

KAUprojects As PI and member-17

Publications latest

Journal Articles: 20

Recent publications

1. **Seeja G** and Sreekumar S (2020) A review on cybrids: An approach for plant improvement. Crop Research 55(1&2):48-56. DOI : [10.31830/2454-1761.2020.011](https://doi.org/10.31830/2454-1761.2020.011).
2. **Seeja G** and Sreekumar S (2020) Doubled haploids in genetic improvement: A review. International Journal of Recent Scientific Research 11(1):36941-36949. DOI: <http://dx.doi.org/10.24327/ijrsr.2020.1101.5029>
3. **Seeja G**, Arya K, Biju CK and Sreekumar S (2019) Evaluation of genetic variability in *Spathoglottis species*: A model orchid. Indian Journal of Agricultural Research 53(3): 263-269
4. **Seeja G**, Sreekumar S, Biju CK and Arya K (2018) Inbreeding and *in vitro* seed germination in *Spathoglottis albida* Kraenzl. IOSR JAVS 11(1-III): 14-20.
5. Nisheeda, BA, Safeer PM, Sreekumar S, Biju CK, **Seeja G**, Manivannan 2016. A review on *Plectranthus vettiveroides*: An endemic to south Indian high value aromatic medicinal plant. IOSR-JPBS 11(2): 01-11.

Popular Articles : 6

Books/Chapters in Books :2

Seminar/Conference research papers: 20

Student Guidance (Major Advisor/ Advisory Committee member)

M. Sc.

Within KAU: Completed: 5

Ongoing : 20

B Sc (M Sc) Integrated Biotechnology : Completed: 2

Ph. D

Within KAU: Completed: 1

Ongoing: 19

Other Institutional Responsibilities

Currently acting as a student advisor for 10 undergraduate students

Other Activities

Reviewer of research articles in different journals.