SANDEEP N

Ph.D. in Genetics and Plant Breeding

Plant breeder with a Ph.D. in Genetics and Plant Breeding. Skilled in traditional plant breeding, molecular biology and statistical data analysis. Proficient in handling male sterility lines in cereals. Strong communication skills and published research articles in peer reviewed journals. Seeking a challenging position in an innovative organization to develop new and improved plant varieties.

sandeepgowda.n@gmail.com +91-9591055650 Kolar, Karnataka github.com/sandeepgowdan linkedin.com/in/sandeepgowdan

EXPERTISE ACQUIRED

Expertise in a variety of plant breeding techniques, including traditional plant breeding, inbred / hybrid development, marker-assisted selection and molecular biology.

Familiar with hybrid seed production techniques and combining ability studies

Proficient in multi-environment trail data analysis (BLUPs, BLUEs and Spatial Analysis), Extensive experience in conducting controlled crosses and well versed in handling Male sterility lines.

Familiar with various statistical software and Skilled in using statistical software such as R, GAPIT, TASSEL, BLAST, META-R, QTL IciMapping and SPSS to perform data analysis.

Passionate about expanding my skillset in breeding simulation by actively seeking opportunities to learn ASReml-R and AlphaSimR.

ACHIEVEMENTS

Secured all India 8th rank in ICAR-SRF Ph.D. entrance examination and selected for ICAR-SRF fellowship.

Cleared UGC-CSIR NET and qualified for JRF fellowship

Awarded the University Medal for achieving the highest academic distinction in Ph.D.

EDUCATION

Ph. D. (Agri.) Genetics and Plant Breeding
College of Agriculture, Shivamogga,
KSNUAHS, Shivamogga.
2019-2022 ***9.57***

M.Sc. (Agri.), Genetics and Plant Breeding
College of Agriculture Dharwad,
University of Agricultural of Dharwad.
2017-2019 ***8.63***

B.Sc. (Agri.), Agriculture
College of Agriculture, GKVK, Bangalore,
University of Agricultural of Bangalore.
2013-2017 **8.50**

PROJECTS

Ph.D. Thesis: Assessment of Variability Generated Through Multiparent Cross and Wide Hybridization Studies in Okra (Abelmoschus spp. L. Moench).

M.Sc. (Agri.) Thesis: Genetic Studies Involving Maldandi and milo source of male sterility in Rabi Sorghum.

LANGUAGES

English Kannada Telugu

EXPERINCE

(Intern: R and D, Plant Genomics)- Piatrika Biosystems
March-2023 to June-2023

Design and analysis of agricultural field experiments (RCBD, Augmented and alpha lattice designs).

Familiar with statistical modelling techniques involving fixed and random effects (linear mixed models and generalized versions of it., *lme4*).

Proficiency in utilizing the R programming language for effective data manipulation, computation, visualization and Univariate/multivariate data analysis

Knowledge of techniques like estimation of genetic gain and estimation of GEBVs and Proficient in implementing genomic selection/genomic prediction (BGLR-R), GWAS analysis using GAPIT.

Knowledge of Machine Leaning techniques used for predictive model development for genomic selection.

TECHNICAL SKILLS

- R Programming language
- Git and GitHub
- Python (Basics)
- Linux (Basics)

PUBLICATIONS

Characterization of Okra Species, Their Hybrids and Crossability Relationships among Abelmoschus Species of the Western Ghats Region. *Horticulturae. 8(7): 587* Sandeep, N., Dushyanthakumar, B.M., Sridhara, S., Dasaiah, L., Mahadevappa Satish, K., M et al.
2022

Identification of stable restorers for diverse cytoplasmic source in Sorghum [Sorghum bicolor (L.) Moench.]. *Indian J. Genet., 80 (2): 1-3*
N. Sandeep and B. D. Biradar.
2020

An Approach to Identify Stable Genotypes based on MTSI and MGDII Indexes in Okra (Abelmoschus esculentus [L.] Moench) (Under Review)
N. Sandeep., B M Dushyanthakumar. Lakshmana, D., Sridhara S., and Satish K. M.
2023

Genetic variability studies involving maintainers on maldandi and milo source of male sterility in rabi sorghum [Sorghum bicolor (L.) Moench]. Electron. J. Plant Breed. 11(2):645-649
N. Sandeep and B. D. Biradar.
2020

TRAINING/WORKSHOPS

2024 **Ensembl Plants Browser and REST API Workshop (Virtual)** (Ensembl)

2023 **Next Generation Sequencing and Data Analysis (Virtual)** (NAARM, Hyderabad)

2023 **Advanced Genetics and Plant Breeding Data Analysis Workshop** (Agriculture University, Jodhpur, Rajasthan)

REFERENCES

Dr. R. C. Jagadeesha
Vice-Chancellor
Keladi Shivappa Nayaka University
of Agricultural and Horticultural Science Shivamogga
Ph: 9449411434

Dr. Mohan Rao, A.
Professor and Head
Dept. of Genetics and Plant Breeding
GKVK, UAS, Bangalore
Ph:9035983240

Dr. Dushyantha Kumar B M
Dean (Agri.) and Rice Breeder
Keladi Shivappa Nayaka University
of Agricultural and Horticultural Science Shivamogga
Ph: 9448657675

Dr. R. Lokesha
Registrar
Keladi Shivappa Nayaka University of
Agricultural and Horticultural Sciences Shivamogga
Ph:9986161021