

R MANJUNATHA

Plant Genomics | Molecular breeding | Molecular Biologist

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SUMMARY

An enthusiastic, result oriented and fast-learning person with a broad interest in the Agricultural research with 6+ years of experience in plant genomics & experimentation to drive innovation in breeding and genomics R&D. I enjoy collaborating with scientists from different disciplines & have proven ability to handle cross functional projects & teams. This results in efficient process, faster development cycles, and cost savings. My skills contain the following:

Molecular breeding: Designing & conducting field trials, Phenotyping, Trait introgression activities, Expert in Crop agronomy on R&D sites, Handling seed inventory, large phenotypic data collection & analysis of data using statistical tools, Preparation of reports & interpretation.

Molecular Biology & Bioinformatics: Nucleic acid extraction, qPCR, ELISA, SDS Page, Micro propagation, knowledge about Library Preparation & Sanger sequencing. Basic sequence alignment and analysis, Primer designing, data retrieval from databases likes Ensemble, NCBI and GenBank.

Leadership: Quick Learner, Collaboration, Result driven work approach, Decision making, Skillful time management, Strong interpersonal & communication skills, Independent handling of tasks & Mentoring.

PROFESSIONAL EXPERIENCE

LEAD RESEARCH ASSOCIATE | RALLIS INDIA LIMITED

11/2020 - Till date

- > Responsible for development of different mapping populations & its phenotyping.
- > Experienced in handling Trait Introgression programs.
- > Design and implement Cereal crops (Cotton, Maize & Paddy) trial programs at designated locations
- > Hybrid seed production for field evaluation & Seed multiplication for HSP & PSM.
- > Validation and Characterization of tissue samples using PCR, ELISA and qPCR.
- > Agronomy & physiological knowledge of Crops & life cycle of associated pests, technical knowledge of crop protection solutions, statistical knowledge of experimental designs & report preparation.
- > Functioning as an integral member responsible for planting, plot maintenance, spraying, phenotyping & harvest.
- > Manage and maintaining Seed Inventory (working samples and storage).
- > Monitor & ensuring adherence to protocols & analyze data to draw meaningful conclusions & provide insights.
- > Regularly communicating with peers regarding work related activities, quality and timeliness of data collected.

SCIENTIST-I | STRAND LIFE SCIENCES PVT. LTD

02/2019 - 11/2020

- > Nucleic Acid isolation from all types of samples (Body fluids, Liquid biopsy, Saliva, Swab, Blood, DBS, FFPE, Fresh tissue) and Quality Check of DNA.
- > Primer Designing and Optimization of PCR, performing PCR (Mutation specific PCR, qPCR) on a regular basis.
- > Performing Sanger sequencing & running them on capillary electrophoresis machine (Genetic Analyser-3500DX).
- > Data analysis using Finch TV Software, Coffalyser.Net software and Gene Mapper.
- > Generation of reports in Laboratory Information Management System (LIMS), writing SOP's & protocols.
- > Robotics - Liquid handlers (Biomek 4000, Beckman coulter).
- > Performing daily Laboratory operations according to International and National standards (CAP and NABL).

- > DNA/RNA extraction and quantification by spectrophotometry.
- > Data compilation & analysis, documentation of generated data in lab records.
- > Curating literature data relevant to on-going research projects.
- > Maintaining plants under Greenhouse & Lab controlled Conditions.

IN-PLANT TRAINING

- > Genome assembly and annotation of genes for medicinally important Secondary metabolites of *Ocimum* at National Centre for Biological Sciences (NCBS), Bengaluru.
 - Analyzing genome sequences, studying protein structural- similarities, Gene annotation & development of tools to aid such analyses

EDUCATION

M.Sc. | UAS GKVK, BENGALURU | Plant Biotechnology **2018**

B.Sc. (Hons.) | UAS GKVK, BENGALURU | Agri. Biotechnology **2016**

WORKSHOP/PARTICIPATIONS

- > Participated in the DBT-HRD sponsored Training programme on “Advanced Techniques in Proteomics & Molecular Markers” in 2017.
- > Participated in XIII Agricultural science congress held at UAS, GKVK Bengaluru.
- > Participated in DBT-HRD sponsored Training programme on “Omics Gateway – Tools & Techniques for Modern Agriculture” in 2018.
- > Presented poster entitled “Effect of vitamin B12 priming on alleviating salinity stress in chickpea” in post graduate science week, UAS, GKVK, Bengaluru 2018.
- > Assisted in conducting workshop on Role of Endophytes in Modulating Crop Growth & Productivity in 2018.

REFERENCES

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