

MAHESH. H. B.,

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Research Interest

- Crop Improvement through application of Novel High Throughput technologies
- Genome, and Transcriptome sequencing
- Sequencing of Phytopathogens
- Discovery of antimicrobial peptides and metabolites and their deployment in control of major crop diseases
- MicroRNA sequencing
- Marker Assisted Selection for agriculturally important traits in Rice, Finger millet, and Horsegram
- Metagenome sequencing of soil and plant samples

Personal Achievements/Awards

- Recipient of prestigious “**Monsanto’s Beachell-Borlaug International Fellowship** for Ph.D degree program and received a grant of **\$1,44,239 (INR 90.00 Lakhs)** for Ph.D research. **I was one among 12 students in the world** to receive this fellowship.
- Received **INSPIRE** fellowship for 1st year Ph.D from DST, Govt. of India.
- Recipient of **UAS Gold Medal** for M.Sc (Agri.) in GPB from UAS(B).
- Recipient of **Sri. R. M. Radhakrishna Memorial Gold Medal** for M.Sc (Agri) in GPB from UAS(B).
- Recipient of **Dr. G. Shivashankar Memorial Gold Medal** for M.Sc (Agri) in GPB from UAS(B).
- Recipient of **UAS Gold Medal** for B. Sc (Agri.) from UAS(B).
- Recipient of **Natasarvabhoma Rajkumar Sanmana Samithi Gold Medal** for B.Sc (Agri.) from UAS(B).
- Recipient of **Sri Ragi Lakshmanaiah Gold Medal** for B.Sc (Agri.) from UAS(B).
- Recipient of **K. K Avadhani Student Award** for outstanding performance in B.Sc (Agri.) from Sri Ragi Lakshmanaiah Smaraka Samiti, Mandya
- Conferred three times a **Rapid Recognition Award (RRA)** for outstanding contribution to Corn Breeding in Monsanto, India.
- Received **Monsanto Emerging Star Award** for two times.

Recent Awards:

- **Young Scientist Award-NPDF** from DST, Govt. of India
- Received **Biotechnology Ignition Grant (INR 50 Lakhs)** from BIRAC, DBT, Govt. of India.

Research Achievements

- Sequenced **227 rice landraces** and mapped several ‘R’ genes for rice blast disease
- Whole genome sequence of highly resistant and susceptible rice landraces to blast disease
- **Ragi genome (ML-365 variety)** sequenced and published first time in the World
- **Rice sheath rot pathogen (*Sarocladium oryzae*)** sequenced and published first time in the World
- **Indica Rice genome (HR-12 variety)** sequenced and published first time in the Country in collaboration with C-CAMP
- Rice blast pathogen (*Magnaporthe oryzae*) sequenced and published first time in the Country in collaboration with C-CAMP
- Sequenced **217 Rice landraces** using Next Generation Sequencing and mapped 45 blast disease resistance genes