

Transcriptome analysis of Meloidogyne graminicola infected roots of resistant mutant rice

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Location: New Delhi, India Time Zone: UTC+05:30



- In a previous study, an activation tagged mutant rice line (line-9) developed on a susceptible landrace JBT 36/14 showed high degree of resistance as compared to other mutants (Hatzade et al., 2019)
- Minimum to no galling was observed in line-9 upon M. graminicola inoculation
- RNA-Sequencing was performed to identify pathways responsible for early defence response observed in line-9 as compare to wildtype JBT 36/14



Root tissue 1 cm from root tip harvested from infected seedlings 24 h post inoculation Isolation of Total RNA from infected root tissue RNA extraction and sequencing through Illumina X ten platform Analysis of generated RNA-seq data Profiling Differentially expressed genes (DEGs)





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Reference: Hatzade et al., https://doi.org/10.2478/s11756-019-00281-4 Biologia.

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