

Evaluation of Groundnut (*Arachis hypogaea* L.) Genotypes for Multiple Diseases Resistance

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ABSTRACT

The present investigation was carried out to study the reaction to multiple diseases (*Aspergillus* seed colonization, late leaf spot and rust) and their yield potential in 18 groundnut genotypes. Significant variation existed among the genotypes, and between seasons with genotype × season interaction for diseases, yield and yield related parameters. The high heritability with high genetic advance was observed for diseases and test weight. *Aspergillus* seed colonization had highly significant desirable negative association with test weight. Popular cultivars TMV 2, JL 24 and TAG 24 were susceptible to all the three diseases whereas GPBD 4 was resistant to foliar diseases. Germplasm lines viz., ICGV 86699, ICG 8760 and ICG 13787 exhibited moderate to high level of resistance to all the three diseases but possessed undesirable agronomic features indicating a need for improvement through hybridization.

Key words : *Aspergillus*, Colonization, Groundnut, Late leaf spot, Rust, Test weight.