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## RESEARCH ARTICLE

# Studies on genetic divergence in brinjal (*Solanum melongena* L.) for yield attributes and shoot and fruit borer (*Leucinodes arbonalis*) incidence

■ G. SAMLINDSUJIN AND P. KARUPPAIAH

### SUMMARY

Genetic divergence study was carried out with sixty brinjal genotypes for sixteen characters in Department of Horticulture during February 2015. These genotypes were grouped into five clusters irrespective of geographic divergence, indicating no parallelism between geographic and genetic diversity. Cluster V was the largest cluster comprised of 43 genotypes followed by cluster I which consisted of eleven genotypes. Cluster II, III and IV consisted of two genotypes each. As regard to cluster means, cluster V and II performed better in most of the biometric characters studied. The maximum inter-cluster distance was observed in cluster III and V. The intra cluster distance was the maximum in cluster V followed by cluster I and cluster IV. Cluster II had the least intra cluster distance.

**Key Words :** Brinjal, Genetic divergence, D<sup>2</sup> statistics

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