

Variability, Heritability and Genetic Advance in Brinjal (*Solanum melongena* L.)

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ABSTRACT

Different parameters were estimated to assess the magnitude of genetic variability in 27 diverse genotypes of brinjal (*Solanum melongena* L.). The analysis of variance indicated the prevalence of sufficient genetic variation among the genotypes for all the characters studied. High phenotypic coefficient of variation (PCV) and genotypic coefficient of variation (GCV) were observed for fruit weight, fruits per plant, yield per plant, shape index, volume index, primary and secondary branches. High heritability coupled with high genetic advance was observed for plant height, number of branches, fruit length, fruit girth, fruit weight, fruits per plant and yield per plant indicating that these characters are governed by additive gene action. Hence, direct selection is effective in improving these characters of brinjal.

Key words : Brinjal, Genetic advance, Heritability, *Solanum melongena* , Variability.