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Genetic analysis of yield and its contributing traits in brinjal (*Solanum melongena* L.)

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ABSTRACT : Analysis of variance showed highly significant differences for all the characters among the treatments. The orthogonal partitioning of treatment of parents, F_1 s, F_2 s, parents vs F_1 s, parents vs F_2 s and F_1 s vs F_2 s were also highly significant for all the characters except for parents vs F_2 s (Number of branches per plant) and significant for parents vs F_2 s (fruit yield per plant). Wide range of variability was observed for all the characters for parents, F_1 s and F_2 s population. The analysis of variance showed highly significant differences among genotypes for all the ten characters, viz., days to flowering, height of plant, number of branches per plant, length of leaf, width of leaf, length of fruit, width of fruit, number of fruit per plant, weight of per fruit and fruit yield per plant, indicating sufficient variability for undertaking the present investigation.

KEY WORDS : Analysis of variance, (ANOVA), Analysis of the variance for combining ability

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