



Gene action in Indian mustard

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Abstract : The experiment comprising 100 treatments (10 parents + 45 F_1 s + 45 F_2 s) was laid out in a randomized block design with three replications. Analysis of the data on seed yield and its ten component characters suggested that dominant alleles were more frequent for most of the traits. Positive and negative alleles among parents were distributed symmetrically for the characters days to 50 per cent flower and number of siliquae on main raceme in both the generations and number of secondary branches per plant, days to maturity, length of main raceme, 1000-seed weight and seed yield per plant only in F_1 generation whereas, for rest of the characters asymmetrical distribution of positive and negative genes in parents were observed. Additive and non-additive gene actions were found important in the inheritance of most of the characters.

Key Words : Indian mustard, Diallel, Gene action

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