

# Character Association and Selection Indices in Sesame

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## ABSTRACT

Investigations on extent of character association, path coefficient analysis and selection indices were conducted in sesame during *kharif* 2008 and *rabi* 2008-09. Correlation studies showed that, the seed yield per plant had significant positive association with days to 50% flowering, number of primaries, capsules per plant, seeds per capsule and oil content. Path coefficient analysis revealed that seeds per capsule, capsules per plant and oil content had high positive direct effect on seed yield per plant. Selection indices studies by using discriminant function technique revealed that the function including number of seeds per capsules as one of the components recorded high expected genetic advance and relative efficiency. The index which includes all the ten characters were showed maximum genetic advance and relative efficiency suggesting that simultaneous selection for all these characters would be better over straight selection for seed yield.

**Key words :** Correlation, Genetic Advance, Path Coefficient Analysis, Selection indices, Sesame.