

Correlation and Path Coefficient Analysis in Sesame (*Sesamum Indicum* L.)

**K Vijaya Kumar, P V Rama Kumar, J S V Sambamurthy, K V M Krishna Murthy and
V Srinivasa Rao**

Department of Genetic and Plant Breeding, Agricultural College, Bapatla 522 101, Andhra Pradesh

ABSTRACT

Fourteen parents were crossed in half-diallel fashion to generate 91 F_1 s and were evaluated in four environments *viz.*, Bapatla (*kharif*), Bapatla (*rabi*), Peddapuram (*kharif*) and Peddapuram (*rabi*). The studies of character association on pooled basis revealed highest contribution was made by number of capsules/plant towards seed yield per plant. Only days to 50% flowering was found to be negatively associated at genotypic level. A higher positive direct effect was recorded by number of capsules/plant towards seed yield per plant at both phenotypic and genotypic levels. The present correlation and path coefficient analysis studies on the whole adds to the established complementary relationship of plant height, number of primary branches, number of secondary branches, number of seeds/capsule and number of capsules/plant towards high seed yield in sesame.

Key words : Analysis in sesame, Correlation, Path coefficient