

# **Study of Correlation and Path Analyses over Environments in Sesamum (*Sesamum indicum* L.)**

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## **ABSTRACT**

Ten Sesame genotypes were evaluated during *kharif*, 2010 and *rabi*, 2010-11 over 6 environments in respect of 9 quantitative characters. Analysis of variance revealed significant differences among genotypes for all the nine characters studied. Number of capsules per plant and 1000 seed weight were positively associated with seed yield per plant in all the six environments while number of seeds per capsule was positively associated with seed yield per plant in all the environments except environment VI. The character plant height exhibited significant positive association with seed yield per plant in all environments except II and III. Path coefficient analysis showed direct positive contribution of plant height, days to 50% flowering, number of capsules per plant, number of seeds per capsule, 1000 seed weight and oil content on seed yield. These traits deserve special emphasis in selection while improvement of seed yield in sesamum.

**Key words** :Correlation, Path Analysis, Sesamum.