

## Correlation and path co-efficient analysis of some quantitative traits in linseed (*Linum usitatissimum* L.)

■ RAJA R. KANWAR, RITU R. SAXENA AND RUTH ELIZABETH EKKA

### SUMMARY

Correlation and path co-efficient analysis was studied in 36 genotypes of linseed. The correlation studies indicated that seed yield per plant had significant positive correlation with days to maturity, number of primary branches per plant, number of capsules per plant, number of seeds per capsule and biological yield. Hence, improvement of seed yield per plant can be achieved by improving these characters. Path co-efficient analysis revealed that harvest index, plant height, number of primary branches per plant, number of capsules per plant and biological yield showed high positive direct effect on seed yield per plant and selection for these characters would lead to increase in yield.

**Key Words :** Correlation, Path co-efficient analysis, Association analysis, Linseed

**How to cite this article :** Kanwar, Raja R., Saxena, Ritu R. and Ekka, Ruth Elizabeth (2013). Correlation and path co-efficient analysis of some quantitative traits in linseed (*Linum usitatissimum* L.). *Internat. J. Plant Sci.*, **8** (2) : 395-397.

**Article chronicle : Received :** 11.05.2013; **Accepted :** 17.06.2013

### MEMBERS OF THE RESEARCH FORUM

**Author to be contacted :**

**RAJA R. KANWAR**, Department of Genetics and Plant Breeding,  
R.M.D. College of Agriculture and Research Station, Ambikapur, SURGUJA  
(C.G.) INDIA  
Email: raja\_07oct@yahoo.co.in

**Address of the Co-authors:**

**RITU R. SAXENA**, Department of Genetics and Plant Breeding, Indira  
Gandhi Krishi Vishwavidyalaya, RAIPUR (C.G.) INDIA

**RUTH ELIZABETH EKKA**, Department of Genetics and Plant Breeding,  
R.M.D. College of Agriculture and Research Station, Ambikapur, SURGUJA  
(C.G.) INDIA  
Email: elizabeth\_06r@yahoo.co.in