

Correlation and Path Coefficient Analysis in F₃ Generation of Rice (*Oryza sativa* L.)

**J N V V Manohar Krishna, M Lal Ahamed, B Vijaya Lakshmi, K V Seetha
Ramaiah**

and G L N Reddy

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

ABSTRACT

Correlation and path coefficient analysis were computed to assess the association for yield, yield contributing characters and physico-chemical quality characteristics in sixteen F₃ population of rice. The results of phenotypic and genotypic correlation analysis revealed that plant height, productive tillers per plant, panicle length, kernel breadth and elongation ratio were significantly and positively correlated with grain yield per plant. Path analysis indicated that plant height, productive tillers per plant and panicle length had high direct positive effect on grain yield per plant signifying the importance of these traits in improvement of grain yield per plant.

Key words : Correlation, Path analysis, Rice.