

# Variability, Correlation and Path Analysis in Slender Grain Genotypes of Rice (*Oryza sativa* L.)

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## ABSTRACT

The present investigation was undertaken with 30 slender grain genotypes in rice to study variability, character association between yield and yield components and their direct and indirect effects on grain yield. The results revealed high GCV, PCV, heritability and genetic advance as per cent mean for ear bearing tillers per plant, panicle length, grains per panicle, test weight, grain yield per plant, protein content and zinc content. Significant positive correlation and high positive direct effect on grain yield was recorded for the yield contributing characters, namely, ear bearing tillers per plant, panicle length, grains per panicle, test weight, protein and zinc content indicating the effectiveness of these traits in improvement of yield in slender grain genotypes with good nutritional quality.

**Keywords:** *Character association, path analysis, slender grain rice, grain yield, nutritional quality*