

# Genetic Variability, Character Association and Path Coefficient Analysis in *Gossypium hirsutum*

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## ABSTRACT

Sixty genotypes of cotton (*Gossypium hirsutum* L.) of diverse origin were studied for their genetic variability, character association and path analysis. Wider variability was observed for number of monopodia plant<sup>-1</sup>, plant height, number of bolls plant<sup>-1</sup> and seed cotton yield plant<sup>-1</sup> among 15 characters studied. High heritability coupled with high genetic advance was observed for plant height, number of monopodia plant<sup>-1</sup>, number of bolls plant<sup>-1</sup>, boll weight, lint index and seed cotton yield plant<sup>-1</sup>. The correlation and path coefficient analyses together indicated that number of monopodia plant<sup>-1</sup>, number of bolls plant<sup>-1</sup>, boll weight and ginning out turn had significant positive association with seed cotton yield plant<sup>-1</sup> and these traits may be given due weightage in selection programme for crop improvement.

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