

# **Genetic variability studies in blackgram [*vigna mungo* (L.) Hepper] genotypes**

**D Priyanka Bai, J Sateesh babu, N Satyanarayana and V Roja**

Department of Genetics and Plant Breeding, Acharya N G Ranga Agricultural University,  
Agricultural College, Bapatla-522101, Andhra Pradesh, India

## **ABSTRACT**

The present study was undertaken to assess the magnitude of genetic variability, heritability, and genetic advance for seed yield and its associated traits in 45 blackgram genotypes during *rabi*, 2024-25 at Regional Agricultural Research Station, Lam, Guntur, Andhra Pradesh. The analysis of variance revealed significant differences among the genotypes for all characters studied, suggesting the presence of considerable genetic variation on the present study. On the present studies high heritability coupled with high genetic advance was recorded for seed yield per plant, number of branches per plant, clusters per plant, pods per plant, seeds per pod and pod length suggesting the predominance of additive gene action and the possibility of effective direct selection for these traits. These results also emphasized and suggested the potential for genetic improvement through direct selection in blackgram breeding programs.

**Keywords:** *Blackgram, Genetic advance, Heritability, PCV and GCV*