## Gentic Variablity, Correlation and Path Analysis in Greengram (Vigna radiata)

## Namita Srivastava, Manish K Pandey and C R Kole

Department of Genetics and Plant Breeding, Allahabad Agricultural Institute
Deemed University, Allahabad-211007

## **ABSTRACT**

Genetic parameters along with association and effect of yield attributing traits on seed yield have been studied to identify a set of characters for effective selection during breeding programme. All the traits studied showed significant variation except pod length and best donors for each traits was identified. Moderate to high values for genetic parameters were recorded for plant height, pod number, cluster number, 100 seed weight, plant dry weight and harvest index. Pods per plant, plant dry weight and harvest index were found to have positive association with seed yield at both genotypic as well as phenotypic levels. Path analysis revealed plant height, number of clusters, 100-seed weight, plant dry weight and harvest index at phenotypic and genotypic level, displayed positive and direct effect on seed yield. On basis of moderate to high values for genetic parameters, positive association and direct contribution towards seed yield has been observed for cluster number, pod number, plant height, 100 seed weight, plant dry weight and harvest index. Selection for these traits in combination may enhance the seed yield in greengram effectively.

Key words: Correlation coefficient, Greengram, Path analysis, Variabilityp