Principal Component and Cluster Analyses in Desi chickpea (*Cicer arietinum* L.)

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ABSTRACT

Forty genotypes of *Desi* chickpea were evaluated to study genetic divergence by using principal component analysis and cluster analysis. These genotypes were grouped into 7 clusters. Principal component analysis identified five principal components with eigen values more than one which contributed 92.14 per cent of the cumulative variance. The genotypes selected from the above analysis were K-850, ICC 927, ICC -7425, SAKI 9516, DCP 92-3, and L-550 which appear to be desirable for inclusion in crossing programme aimed for improvement of *Desi* chickpea

Key words : Cluster Analysis, *Desi* Chickpea, Genetic Divergence, Principal Component Analysis.