

## 5<sup>th</sup> International Conference on **Biodiversity**

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### **Genetic diversity for yield, its attributes and micronutrients in black gram (*Vigna mungo* L. Hepper)**

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**B**lack gram is one of the important sources of easily digestible good quality protein and micronutrients. It fits well in diversity of cropping pattern, used as green manure. Diversity occur in both qualitative and quantitative traits, high genetic diversity builds a sound gene pool gene for future use and serves as breeding material for crop improvement. The present study aims at analyzing the genetic divergence of 120 genotypes along with 3 checks, Rashmi, DU 1 & T9 were evaluated in augmented design at University of Agricultural Sciences, Bengaluru. K mean analysis shows that high genetic diversity for yield and its attributes. After eliminating the unknown sources of variation, the accessions are grouped into 5 clusters and the range of inter-cluster distance is between 8.128 and 28.432. Cluster 1 accounts for maximum number of accessions (27) followed by cluster 2, which include 26. The clusters which accounts for least number of accessions are 5<sup>th</sup> cluster i.e., 19. The maximum inter-cluster distance is 28.432, which is observed between cluster 2 & cluster 3 and minimum inter-cluster distance is seen between cluster 4 & cluster 5 which is 8.124. Therefore, any selection made between cluster 2, cluster 3 and cluster 4, cluster 5 rewards maximum benefits for yield improvements.

#### **Biography**

Sannarangaiah Rangaiah has completed his PhD from University of Agricultural Sciences, GKVK, Bengaluru. He is the Professor and Head in the Department of Genetics and Plant Breeding, College of Agriculture, GKVK, Bengaluru, a premier university in Karnataka as well in India. He has published more than 40 papers in reputed journals and has been serving as an External Member for conducting qualifying examination for PhD students, member of interview in selection of scientists, peer reviewer in referred journals, and as a member of Board of Studies for PG Diploma course in Mysore University, India.

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