

Diallel analysis in mungbean (*Vigna radiata* (L.) Wilczek)

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ABSTRACT : The 8x8 diallel analysis experiment was conducted in 13 quantitative characters in mungbean. The general combining ability and specific combining ability were highly significant for all the characters studied. Better combining parents were Pusa Bold (Vishal), Pusa Baisakhi. Best combination were Pusa Baisakhi x Pusa Bold (Vishal) x Pant Mung-2 x ML-613, Pant M-3 x PS-16 and Pusa Bold (Vishal) x ML-613. Both additive and non additive gene effects were found contributing the inheritance of plant height, number of clusters per plant, number of pods per plant and seed yield per plant. The additive gene effects appeared to be more important for number of seeds per pod and non additive effects for primary branches per plant and protein content in seeds.

Key Words : Mungbean, diallel analysis, combining ability analysis.