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Genetic Divergence in Quality Protein Maize (Zea Mays L)

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Sixty three quality protein maize genotypes were studied for divergence using D^2 technique. Wide diversity was observed among the different genotypes for various characters. Based on D^2 analysis the sixty three genotypes were grouped into eight clusters. The highest intra cluster distance was observed in cluster V. The highest inter cluster distance was observed between cluster VI and VII, followed by cluster II and V indicating wide genetic diversity between them, while least inter cluster distance was observed between cluster I and II indicating genetic closeness between the genotypes of these clusters. Diverse genotypes identified by multivariate analysis could be used in hybridization programme for getting good recombinants. Based on contribution of various characters towards divergence, it is suggested to screen more diverse QPM germplasm to identify genotypes with high protein content.

Biography

S. Madhusudhan Reddy has completed M.sc (Agriculture) from Acharya N.G. Ranga Agricultural University, College of Agriculture, Rajendranagar, Hyderabad. Now I am doing Ph.D. Agriculture (Research Scholar) in Dept of Genetics and Plant Breeding from the same university. M.sc. research papers three published and I attended some national conferences on agriculture related.

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