



RESEARCH PAPER

Studies on genetic variability and character association in brinjal (*Solanum melongena* L.)

Chetna Shaktawat*, S. K. Pandey¹ and Shankar Lal Kumawat²

Department of Horticulture (Vegetable Science), Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) India (Email : Chetnashaktawat91@gmail.com)

Abstract : The present investigation entitled with studies on genetic variability and character association in brinjal (*Solanum melongena* L.). The experiment was carried at Horticulture complex, Department of Horticulture, College of Agriculture, Jabalpur (Madhya Pradesh). The experiment was laid out in Randomized Complete Block Design with three replications and each replication consisted of 20 genotypes. The results revealed that the Genotype 2013/BRBWRES-4 recorded the maximum plant height. The maximum branches per plant (9.24) were recorded in genotype SM-6-7. Early flowering was observed in Kashi Tarun (C) (26.33 days). Genotype Kashi Tarun was earliest for days to first picking. Maximum length of fruiting period was observed in genotype 2013/BRLVAR-2 (105.00 days). Genotype 2013/BRLVAR-4 produced considerably more 3.11 flowers per cluster. Maximum number of fruits per cluster was observed in 2013/BRLVAR-4 (2.88), The maximum number of fruits per plant was observed in 2013/BRLVAR-5, Genotype 2013/BRBWRES-2 produced considerably long fruit (25.52), Genotype 2013/BRBWRES-2 produced considerably long fruit (25.52), Fruit width was recorded maximum in 2013/BRLVAR-3 (6.51 cm), The heaviest fruit were observed in genotype 2013/BRBWES-4 (168.46 g). Highest days were observed in genotype Arka Nidhi (RC) (185). Highest days were observed in genotype Arka Kusumkar (SC) (235.00), Maximum fruit yield per plant was recorded in genotype 2013/BRBWRES-1 (1235.00 g), The maximum fruit yield was recorded in genotype 2013/BRBWRES-1 (458.49 q/ha).

Key Words : Brinjal genetic variability, Character

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*** Author for correspondence:**

¹Department of Horticulture (Fruit Science), Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) India

²Department of Fruit Science, College of Horticulture and Forestry, Jhalawar (Rajasthan) India (Email: kumawatshankarla1516@gmail.com)