

HETEROSIS FOR YIELD COMPONENTS AND FRUIT CHARACTERS IN BRINJAL (*SOLANUM MELONGENA* L.)

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Abstract: Heterosis for yield components and fruit characters was studied using Line x Tester analysis between twelve parents consisted of nine lines (local genotypes of Chhattisgarh) viz., IGB 35, IGB 43, IGB 44, IGB 52, IGB 54, IGB 55, IGB 65, IC 31, IC35 and three testers (improved varieties) viz., DBR 8, KS 224 and JBR 03 16 and a commercial check, PH-6. A high degree of heterosis was observed for all the characters studied. High level of heterosis for fruit yield per plant was shown by the hybrids, IGB-44 x JBR-03-16 (41.19%) followed by IGB-65 x KS-224 (39.79%), IC-31 x JBR-03-16 (25.21%), IC-31 x JBR-03-16 (25.21%) and IGB-55 x JBR-03-16 (24.43%).

Keywords: Brinjal, heterobeltiosis, relative heterosis, yield

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