

Heterosis in sesame (*Sesamum indicum* L.)

N.N. PRAJAPATI, C.G. PATEL^{1*}, A.B. BHATT, K.P. PRAJAPATI¹ AND K.M. PATEL

Department of Seed Technology, S. D. Agricultural University,
SARDARKRUSHINAGAR (GUJARAT) INDIA

ABSTRACT

The study of heterosis in 45 F₁s of sesame resulting from 10 x 10 diallel, excluding reciprocals in four environments indicated pronounced hybrid vigour for yield and most of the yield components. The hybrid ABT 23 x ABT 26 expressing the highest heterobeltiosis for seed yield per plant followed by Mrug 1 x PT 64 also manifested high heterobeltiosis for yield contributing traits viz., number of capsules per plant, length of main branch, number of effective branches per plant, number of seeds per capsule, capsule length and harvest index on pooled basis. None of the hybrids exhibited significant heterobeltiosis for earliness and dwarfness.

Key words : Heterosis, Heterobeltiosis, Sesame

* Author for correspondence

¹Main Castor Mustard Research Station, S.D. Agricultural University, SARDARKRUSHINAGAR (GUJARAT) INDIA