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Combining ability studies in tomato (Lycopersicon esculentum Mill.)

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ABSTRACT : Combining ability studies conducted using a diallel set of ten varieties of tomato (excluding reciprocal) revealed highly significant GCA and SCA effects for all characters studied. This showed that both additive and non-additive gene action were involved in the inheritance of these characters. The parental line P10 (H-29), P5 (Angoor Lata), P1 (Pusa Bahar) and P7 (Kalyanpur Tuape-1) were the best general combiners and top performing hybrid was P9XP10 (KS-16XKS-29), P7XP10 (Kalyanpur Type-1X KS-29) and P1XP9 (Pant BaharXKS-16) for most of the economic characters including yield.

KEY WORDS : Combining ability, Diallel, Epistatic, Hetrosis

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