

## COMBINING ABILITIES STUDIES IN ANTHURIUM

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### ABSTRACT

A study was undertaken to estimate the general and specific combining ability in Anthurium lines through line x tester analysis involving six lines and three testers. The combining ability analysis revealed highly significant differences among the treatments for all the parameters studied. Among the parental lines IIHR selection A1 appeared to be best general combiner for all the component characters based on the estimates of GCA. The tester Eternity was found to be good general combiner for percent seed germination and leaf area. The most promising specific combinations based on the SCA effect was IIHR selection A1 X eternity for disease resistance and meringue white X tropical for economic characters. This indicated both additive and non additive paying a great role in the inheritance of the trait. This study could be exploited for in development of anthurium breeding programs.

**KEYWORDS:** Combining Abilities Studies in Anthurium, Line x Tester Analysis Involving Six Lines and Three Testers