

## Genetic variability and correlation studies in castor (*Ricinus communis* L.)

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### **ABSTRACT**

The experimental material comprised of 41 castor genotypes were evaluated for assessment of genetic variability and correlation in respect of 9 characters. The GCV and PCV were of high magnitude for the character number of capsules on primary raceme followed by plant height, seed yield per plant and number of effective branches per plant. The magnitude of PCV was higher than GCV for all the characters, suggesting the role of environmental variance. High genetic variability coupled with high heritability and high genetic advance was recorded for plant height, number of capsules on primary raceme, number of effective branches per plant and seed yield per plant indicating that direct selection for these traits could be effective. Seed yield per plant showed highly significant and positive correlation with plant height, length of primary raceme, number of capsules on primary raceme and number of effective branches per plant.

**Key words :** Correlation, Genetic variability, Genetic advance, Heritability, Castor

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