

# CHARACTER ASSOCIATION FOR OIL CONTENT IN GROWING PLANTS OF PHYSIC NUT [*JATROPHA CURCAS* (L.)]

T.C. Bochalya, B.R. Ranwah, P. Chand and B.S. Jat

Department of Plant Breeding and Genetics, MPUAT, Udaipur 313001

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**Abstract:** To study variability and character association for oil content 26 characters which includes vegetative, flowering, fruit and quality characters were recorded on 3 and 4 year old plants of 56 germplasm lines in the years 2007 and 2008. Analysis of variance revealed significant differences among the genotypes for all the traits except for number of primary branches per plant in both the years. Correlation of oil content with plant height, stem girth, number of fruits per fruiting branch, petiole length, number of secondary branches per inflorescence, weight per fruit, 100-seed weight, seed yield per plant, seed content and kernel: shell ratio was significant positive in both the years. The positively correlated characters which exhibited positive direct effects on oil content were seed content, number of fruits per fruiting branch, weight per fruit and kernel: shell ratio at both the ages. Significant inter correlations were also existed among the characters associated with oil content.

**Keywords:** Genetic variability, Oil Content, Correlation, *Jatropha*

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\*Corresponding Author