



Determination of genetic variation among chickpea genotypes and their F₁ crosses with RAPD markers

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ABSTRACT. The intensity of genetic diversity amongst chickpea genotypes and their crosses is unknown. The current study investigated the genetic diversity of chickpea genotypes and their F₁ crosses by using random amplified polymorphic DNA (RAPD) markers. We assessed the variation among six chickpea genotypes and 15 F₁ crosses with the RAPD markers. The six parents and their 21 hybrids were carefully studied based on the presence or absence of bands. The level of polymorphism varied with different primers. Out 28 primers

used, 21 amplified the genomic DNA in all the varieties, 15 generated polymorphic bands among all the varieties, and six produced similar banding patterns.

Key words: RAPD markers; DNA fingerprinting; Genetic diversity; Chickpea; Hybrids