EVALUATION OF THE GENETIC DIVERSITY AMONG SOME OILSEED RAPE *BRASSICA NAPUS* CULTIVARS REVEALED BY RAPD MARKERS COMPARED WITH MORPHOLOGICAL TRAITS EVALUATION

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Abstract

In this study we have analyzed the genetic diversity and the relationships among 32 cultivars of oilseed rape (*Brassica napus*) using quantitative analysis and random amplified polymorphic DNA (RAPD) markers. For this purpose we analyzed four morphological traits (plant height, branch number, pod number and mean number of seeds per pod) at 32 oilseed rape cultivars provided from Center for Genetic Resources Netherlands (CGN). RAPD analysis was perfor m with 8 primers chosen after a previous screening. Significant genetic variability among those 32 cultivars was obtained both at the morphological and molecular level. We obtained a dendrogram for the morphological traits and a dendrogram for RAPD analysis and we compared them.

Key words: RAPD analysis, dendrogram, genetic similarity