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## STUDY OF BIODIESEL PRODUCTION FROM OILSEED PLANTS I. EVALUATION OF THE GENETIC SIMILARITY OF SOME *Brassica Napus* CULTIVARS USING RAPD MARKERS

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### Abstract

Rapeseed (*Brassica napus*) is an important oilseed crop worldwide. In order to get the genetic similarity present in a set of oilseed rape cultivars, 32 cultivars have been analyzed at the DNA level by Random Amplified Polymorphic (RAPD) technique. RAPD analysis was performed with 8 decamer primers to produce reliable polymorphic DNA bands ranging in molecular weight from 238 - 961 bp. A total of 72 polymorphic bands from 96 reproducible bands were obtained. Based on these data, genetic similarity (GS) was estimated between 0.608 (“Uspek” versus “Libritta”) and 0.731 (“Libritta” versus “Uspek”). UPGMA cluster analysis carried out on these data indicates a good fit of the respective clusters to genetic similarity data. The correlation of cluster analyses to pedigree information and the impact on parental genotype selection has been taken into discussion.

*Key words:* *Brassica napus*, genetic similarity, RAPD, UPGMA

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