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article(agnieszka tonkowiak, zbigniew broda, krzysztof moliski, marta moliska-glura, jzef adanczyk 2014, vol. 53, no. 3, biometrical letters; abstract: within the last twenty years studies have been conducted at many research centers with the aim of dividing breeding materials into heterotic groups based on molecular markers. molecular techniques make it possible to study the genetic purity of inbred lines, determine their genetic variability and classify breeding materials for which no information is available on their origin. this study aims to investigate relationships between coefficients of relatedness (pedigree analysis) and molecular similarity estimated on the basis of alfa and rapid molecular markers, between parental forms of f1 maize hybrids. average data were subjected to principal component analysis (pca) for each year. the first and second principal components (pc1) extracted from the data explained about 36 and 15% of the total variance, respectively. they were utilized for the subsequent analyses. hierarchical cluster analysis (hca) was performed for both pcs using sppa v 1.9. based on data from two years, a dendrogram (fig. 2) and box plot (fig. 3) for the first and second pcs were created. these analyses indicated that the genotypes from the crosses between the cultivars and lines could be distinguished. most of the lines from crosses between the cultivars were grouped together; however, the lines from crosses between the germplasm lines were scattered. the genotypes from the crosses between the cultivars and lines were placed along the line of decreasing fresh biomass of whole plants (fig. 3).

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