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
RAPD Analysis of Genetic Variation in Barley

Gülruh ALBAYRAK

Istanbul University, Faculty of Science, Biology Department, 34459 Vezneciler,  
Istanbul-TURKEY

Nermin GÖZÜKIRMIZI

Istanbul University, Faculty of Science, Biology Department, 34459 Vezneciler,  
Istanbul-TURKEY

 [Keywords](#)  
 [Authors](#)



[agric@tubitak.gov.tr](mailto:agric@tubitak.gov.tr)

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**Abstract:** The variation between wild barley lines ( *Hordeum murinum*, *Hordeum bulbosum* and *Hordeum vulgare spontaneum*) orig-inated from Turkey were investigated comparatively at the molecular level with the Random Amplified Polymorphic DNA (RAPD) technique. Leaf DNAs extracted from different barley lines were amplified with randomly chosen primers in a Polymerase Chain Reaction (PCR). Rates of polymorphisms between the 23 lines were determined in pairwise comparisons. The lowest value of poly-morphism was determined to be 0.3% between wild barley lines numbered 50327 and 50354, and between 48101 and 50365 while the highest polymorphism value was determined to be 60% between wild barley lines numbered 40659 and 49047. The results can be used in the selection of commercially important traits (such as resistance against disease, drought etc.) present in wild barley lines. Thus, development of high quality barley cultivars will be possible.

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