



STUDY OF GENETIC RELATIONSHIP BETWEEN SOME OLIVE VARIETIES IN GELLIN GENE BANK

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ABSTRACT

Olive tree (*Olea europaea* L.) is one of the most important fruit trees, there is a lot of varieties with the possibility of mislabeling, homogenous and synonyms, which makes major troubles when having plant material for propagation and breeding programs. In this search, 12 olive varieties (Mawi Istanbuli, Khilkhali Khishen, Dan, Mniekri, Adkam, Doabli, Jlot, Khilkhali Saghir, Karamani Modabal,

Mawi abo Shokeh, Sourani, and Abo Shokeh), cultivated in ACSAD Gene bank in Gellin, were characterized by ISSR molecular markers to determine the relationship between these varieties. Depending on quantitative traits the results indicated that these varieties are so close to each other's, ranged from 60% and 85%. It was noticed that Mniekri was apart from the other varieties in its traits, (polymorphic rate was 92.94%).

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