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AN INVESTIGATION ON THE BUD-BREAK AND GROWTH OF CUTTINGS OF 420 A AND 5 BB AMERICAN VINE ROOTSTOCKS IRRADIATED WITH DIFFERENT GAMMA DOSES

Alper DARDENIZ , Şemun TAYYAR2*

1Çanakkale Onsekiz Mart University, Agriculture Faculty, Horticulture Department, Çanakkale, 17100, Turkey.

2*Çanakkale Onsekiz Mart University, Biga Vocational College, Biga-Çanakkale, 17200, Turkey, e-mail: stayyar@comu.edu.tr, Tel: 00 90 286 316 28 78, Fax: 00 90 286 316 37 33

ABSTRACT

Viticulture is an important and intensive agricultural branch in Çanakkale province and also in Turkey. Different American vine rootstocks are widely used against phylloxera in our country. Plant breeders have been using gamma radiation for creating new varieties of crops and for obtaining broad genetic diversity for years. In this study, four different doses of gamma rays were applied to 420 A and 5 BB American vine rootstocks when the buds on the cuttings were at the dormant stage. Then, effects of different gamma radiation doses on the cuttings of 420 A and 5 BB American vine rootstocks were investigated. The aim of the research was to study the effect of different gamma radiation doses on some growth parameters of cuttings of 420 A and 5 BB, and to determine the GR50 dose. The results obtained were statistically elaborated by TARIST.

Key words: American vine rootstock, nursery cutting, gamma radiation, GR50 dose.

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