

عنوان مقاله:

Evaluation of Erythromycin – resistant on *Agrobacterium vitis* Among Environmental Isolates in Urmia of Iran

محل انتشار:

کنفرانس بین المللی توسعه با محوریت کشاورزی ، محیط زیست و گردشگری (سال: 1394)

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خلاصه مقاله:

Agrobacterium vitis is III biovar of *Agrobacterium tumefaciens* and making Gall on grapes bulk. Grape is one of the most important fruits in Azerbaijan and spatially in Urmia so finding the best way for controlling and contrasting with grape diseases is very necessary for microbiologists and farmers. Gall is one of these diseases that can make a lot of damages. The plasmid of these pathogens can code growth hormones genes and cause tumors. Aims: the purpose of this study was to determine the prevalence of erythromycin – resistant *Agrobacterium vitis* isolated from environmental samples in Urmia vineyards. Research method: From May to June 2014, 20 samples isolated from Vineyards of five grape cultures in Urmia, west of Iran. After identification of *Agrobacterium vitis* by biochemical, microbiological and molecular methods, antibiotic susceptibility testing was performed by Kirby-Bauer disk diffusion test for this antibiotic. Results: the highest resistance was seen on all samples of *Agrobacterium vitis* cultures. The results showed that the frequency of erythromycin resistance is very high in *Agrobacterium vitis* strains isolated from vineyards that had crown Gall in west of Urmia. Thus, urgent interventions are needed to keep the emergence and transmission of these isolates to a minimum.

کلمات کلیدی:

Agrobacterium vitis, Erythromycin, Urmia, Iran

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