



The Sanitation of Olive Tree Varieties from Viral Infections Using the “In Vitro” Technique[#]

Elektra Spahiu*, Aulona Veizi

Agricultural Technology Transfer Centre (ATTC) Vlorë, Tirana, Albania

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Abstract: Identification of basic herbs for which is known the health conditions and varietal validation is very important for the qualification of the production of shoots and all ortho-fruit growing. Selection of clonal sanitary genetic guarantee the improvement to local and national varieties in the recovery of indigenous fruit-growing germoplasma. The in-vitro culture is an efficient method for multiplication and healthy forms of species and olive trees. Are studied some olive cultivars native: Kalinjot, Kruja White Olive, Bighead Olive of Portland and foreign cultivars of Frantaio, Termite di Bitetto, Cellina di Nardo, in order to define and implement the strengthening of efficient methods from viruses as ArMV, OLV-2 OLYaV, TNV. For olive healthy technique was used by previous in vitro culture in all its stages like: inoculation, propagation, anchoring, setting. After 40 days surrounding setting plant was sanitary situation assessment with molecular method RT-PCR for the presence of viral infection in olive cultivars. From the results of serological evidence of infection resulted: Bigheaded olive of Portland with ArMV virus (virus of the mosaic of Arabia) and olive termite di Bitetto, Cellina di Nardo OLV virus-2 (latent virus 2). Also were conducted the healthy form of infected olives by techniques:

-The technique of in vitro culture of meristematic yeast.

-Thermotherapy-technique in vitro and in vivo. After surrounding set plants underwent molecular testing with RT-PCR method for the presence of infection after 40 days viral conditions. The verification of photosanitary confirmed the purity of olive cultivars. Thermotherapy gave complete result in strengthening the plant.

Key words: *culture “in vitro”, sanitation, thermotherapy*

*Corresponding: E-mail: elektrakrist@yahoo.com; Tel: 00355 692542198; Fax: 00355408296

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