Project Title : Determination of Susceptibility Level of Some Olive Cultivars to

Olive Knot Pathogen Pseudomonas savastanoi pv. savastanoi

Disease

Start Date : 2010
Supporting Body : GDAR

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Summary : The study has been carried out in order to determine the

differences in the phenotipic characters of olive knot pathogen *Pseudomonas savastanoi* pv. *savastanoi* isolates from different olive production areas and the susceptibility of some common grown cultivars. Phenotipic characterisation and molecular identification studies of the isolates still continue. The differences in the virulence of the isolates were determined in pathogenicity tests performed in climatic room by using 1 year

old seedlings cultivar "Manzanilla".

Cultivars tested were Manzanilla, Ayvalık, Gemlik, Sarı Ulak, Memecik, Domat, Memeli, Edincik, Saurani, Kilis and Uslu. The seedlings of each cultivars were inoculated with 2 isolates evaluated as most virulent in the pathogenicity tests. Knot weights were evaluated 60 days after inoculation and the differences between the cultivars were estimated by using 0-3 scale.

At the end of the study the differences in the virulence of bacteria isolated from different olive production region of the country and susceptibility of the common cultivars tested will be determined. In the case of less susceptible (or resistant) response these cultivars will be recommended to the growers in places with high disease density. As a result an increase in success in the disease management and a contribution to national economy are expected.