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Susceptibility of Different Lentil (*Lens culinaris Medik.*) Cultivars to *Agrobacterium tumefaciens* (Smith & Townsend) Conn

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Abstract: *Agrobacterium tumefaciens* (Smith& Townsend) Conn is commonly used in gene transfer to plants. The effectiveness of bacterial strains and suitable plant genotypes facilitate this process. In this study, 8 lentil cultivars grown in Turkey were assessed for their susceptibility to two wild-type *A. tumefaciens* strains, A281 and A136NC. Both strains induced tumors in lentil cultivars, while differing in the ability to form tumors. Although most of the cultivars had some degree of susceptibility to *A. tumefaciens* infection, cultivars Yesil 21 and Pul 11 had higher frequencies of tumor formation in both strains than the other cultivars tested.

Key Words: *Agrobacterium tumefaciens*, tumor formation, lentil

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