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Agrobacterium tumefaciens-Mediated Transformation of Sesame (Sesamum indicumL.)

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Abstract: Sesamum indicum L. cv. Özberk was infected with various Agrobacterium tumefaciens strains to screen susceptibility to infection by Agrobacteria. Following infection, tumorigenesis was efficient with wild type A. tumefaciens strains, A281 and A136 NC, and transgenic cells were obtained with disarmed A. tumefaciens strain LBA4404/pBI121, harbouring a reporter gene. At the wound sites, tumorigenesis induced by the succinamopine strain A281 was more extensive than by the octopine strain A136 NC.

Key Words: Sesamum indicum, Agrobacterium tumefaciens, virulence, transformation.

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