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The Effects of Gamma Irradiation on the Pollen Size of *Gossypium hirsutum* L.

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Abstract: *Gossypium hirsutum* L. (cotton) is cultivated widely in the south of Turkey. In this study, seeds of the cotton cultivar Çukurova 1518 were irradiated with gamma at 50, 100, 200, 300 and 400 Gray doses in a Co⁶⁰ source. The size of morphologically normal pollen grains was measured in generation M₁ and found to be 120.35 µm in the control group, while this value was different in the irradiated groups. However, there was no significant difference in the size of pollen grains of normal morphology and shape between the irradiated and control pollens.

Key Words: *Gossypium hirsutum* L., gamma irradiation, pollen size, pollen morphology

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