Title Study of some biochemical changes by the effect of Aspergillus flavus and A. parasiticus on

stored pistachio nuts

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## **Abstract**

Pistachio (*Pistacia vera* L.) is a important nut crop with high economic and nutritional value. Stored nuts are exposed to the common *Aspergillus* species (*A. flavus* and *A. parasiticus*) that restrict exports and these fungi can reduce the commercial value of nuts. Aflatoxin production by *Aspergillus* species decreases the nutritional and qualitative value of pistachio nuts. The objective of this study was to determine if the presence of *Aspergillus* species in nuts can change biochemical attributes including soluble carbohydrates, lipid and total protein. These attributes were measured either before or after inoculation on the "Ohadi" cultivar. *Aspergillus* spp. reduced the concentration of soluble carbohydrates and some biochemical factors and induced some nutritional disorders in pistachio.