

## **The effect of hot water treatment and DPA on the scald of Apple cv. Grany Smith from Moghan area.**

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Scald is a physiological disease that occurs on the susceptible cultivars. It is characterized by a brown discoloration of the skin and affects the quality of infected fruits.

In this study the effect of hot water, (54°C for 30 and 60 Sec.) and DPA (0.001 and 0.002 ppm) to control scald in Granny smith cultivar was investigated. Fruits harvested two times with ten days intervals from Moghan area and transported immediately to SPII Lab in Karaj. Ten samples of each treatment was monitored for SSC., T.A., Color and firmness, before and after storage. The results of treatments indicated significant effect of DPA to control the scald. Hot water treatment reduced the scald but not as effective as DPA. The first harvested fruits showed more scald than the later one. Treatments hadn't any negative effects on the chemical compositions of the fruit.