

Title Effect of ultra violet (UV) on mycelial growth and postharvest infection of peach fruits by *Botrytis cinerea* until *Rhizopus stolonifer*

Author Azzeddin M. Alawami, Ibrahim A. El-samra, Awad M. Hussein and Saad M. Shama

Citation Abstracts Book, 6th International Postharvest symposium, 8-12 April 2009, Antalya, Turkey. 256 pages.

Keyword UV; postharvest; peach

Abstract

The effect of UV radiation at 360 nm on mycelial growth of *B. cinerea* and *R. stolonifer* and their postharvest decay on peach fruits was investigated. Data proved that exposing for 5-6 min. was significantly the most effective dose in decreasing the mycelial growth of both tested fungi as compared with the other exposure doses. Exposing peach fruits to UV-light significantly decreased decay of inoculated peach fruits. As regards, exposure time for 6 min gave the best results in suppressing the postharvest decay of peaches. Slight differences in weight loss values were detected in fruits inoculated with *R. stolonifer* and exposed to UV at different exposure periods compared with uninoculated fruits or those inoculated with *B. cinerea*. Exposing inoculated fruits with each of the tested fungi to UV-irradiation slightly affected the percentage of soluble solids content. On the other hand, exposing healthy fruits for 2-4 min. significantly decreased soluble solids content as compared with untreated fruit or those exposed for 6 min.