

at 0.5 °C ±

## Effect of Organic Oils Fumigation and Ozonized Cold Storage on Fruit Quality in Cripps Pink Apples

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Abstract:Ethylene management in organically grown apples during storage is limited and alternative organic methods are required. The objective of this investigation was to examine the effects of lemon and cinnamon oil fumigation on storage life and quality of 'Cripps Pink' apple which were kept in cold storage with and without ozone. The fruit were fumigated with 3µl L-1 lemon or cinnamon oil for 24 h and untreated

fruit were kept as a control. The fruit were stored

0.5 °C with and without ozone for 100 and 150 days. Following each storage period, ethylene production and various fruit quality parameters were determined. The rate of mean climacteric peak ethylene production was significantly lowest in both treatments as compare to the control but the difference among the ozonized cold storage as compared to cold stored without ozone was not significant in 100 and 150 days stored fruit. The climacteric ethylene peak was delayed only in 150 days cold stored fruit with ozone (8 d) as compared to without ozone (3.56 d).

**Biography:**RahilMalekipoor has studied her PhD at Curtin University. Her PhD research is about regulation of postharvest life and quality of organic apple fruits using natural ethylene antagonists.



**Publications:** 1. Renewable Energy Use in Smallholder Farming Systems: A Case Study in Tafresh Township of Iran

2.climate change and agriculture 3.sustainable agriculture and agricultural development

<u>International conference on Agriculture sciences and farming technology, August 26-27,2020, Osaka, Japan.</u>

RahilMalekipoor, Effect of Organic Oils Fumigation and Ozonized Cold Storage on Fruit Quality in Cripps Pink Apples, Agri farm 2020, August 26-27,2020, Osaka, Japan