Title Effect of alone or combination treatment with preharvest GA<sub>3</sub> spraying, postharvest

HWD and IFW on skin browning of pear (cv. Pingguoli) during storage

**Author** Li Yc., Li H.X., Bi Y., Wang Y., Ge YH.

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## **Abstract**

Skin browning of pear was a major post-harvest physiological disease and could significantly reduce the appearance of fruit by showing many dark brown spots. Effect of alone and +::ombination treatment with pretharvrest GA<sub>3</sub> spraying at 50mg/L, postharvest hot water dipping (HWD) (45°C, 10 min) and individual film wrapping (IFW) on skin browning and storage quality of Pingguoli pear stored at ambient temperature( 15±5°C) and low temperature (0±1°C) were studied. The results showed that GA<sub>3</sub>, HWD and IFW treatment alone or combination all significantly decreased the incidence of skin browning of fruit during ambient and low temperature storage. The lowest incidence of skin browning was found after treatment with GA<sub>3</sub> +HWD, its incidence were 20.9% after 35d during ambient storage and 30.8% after 120d low temperature storage of the control. Moreover the treatments also effectively increased soluble solids content, maintained higher firmness and significantly increased soluble solids content / titratable acid.