

Title The ethylene biosynthesis is affected by 1-MCP in carnations

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

Keyword Carnation; 1-MCP; ethylene

Abstract

1-Methylcyclopropene (1-MCP) is an antagonist of ethylene for receptor binding sites. Carnation (*Dianthus caryophyllus* L. Amelia and Natila) plants were incubated with 1-MCP (500 nl L⁻¹ and 1000 nl L⁻¹) for 24h at 20°C and respiration rate, fresh weight, petal leaf's diameter and colour together with ETR1 and CTR1 gene expression patterns were assessed throughout the post-treatment phase. CTR1 and ETR1 gene activities which are responsible from ethylene biosynthesis determined by using Real Time PCR.