



[Available Issues](#) | [Japanese](#)

Author: [ADVANCED](#) | Volume Page

Keyword:



[TOP](#) > [Available Issues](#) > [Table of Contents](#) > **Abstract**

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Cultivar Variation in the Vase Life of Unpollinated Associated with Ethylene

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To clarify factor contributing to cultivar variations in the vase life of
vase life, ethylene production and sensitivity to ethylene were investi
six cultivars of *Eustoma*. There was cultivar variation in flower vase
18.5 days. In all cultivars, ethylene production by flowers increased
There was no significant correlation between the maximum amount
until the petals wilted and the days of flower vase life. We tried to es
ethylene by the degree of flower diameter reduction after ethylene tr

relative flower diameter was either temporarily or continuously reduced with ethylene treatment. The flower diameter tended to be reduced more in short-lived cultivars following exposure to ethylene. These findings suggest that the reduction of flower diameter by ethylene, which is indicated by a reduction of flower diameter, appears to be involved in cultivar variation in the vase life of cut unpollinated *Eustoma* flowers.

Key Words: [flower diameter](#), [sensitivity](#)

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