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Author:		<u>ADVANCED</u>	Volume	Page
Keyword:		Search		
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<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > Abstract

Horticultural Research (Japan)

Vol. 9 (2010), No. 4 427-431

Causes of Sprout Unevenness in *Lilium* × *formolong*. High Temperature

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(Received January 4, 2010) (Accepted March 17, 2010)

We examined the physiological factors causing reduction of seed get temperature of 24°C in *Lilium* × *formolongi* hort.. High temperature saccharification of storage starch to glucose in the seed during germ of α -amylase activity. Ethylene production and abscisic acid (ABA) seed increased under a high temperature condition. Ethylene inhibit thiosulfate complex) and 1-MCP (1-methylcyclopropene), and wink recovered the germination reduction at a high temperature. Furtherr during seeding in the soil was also effective in that recovering of ger high temperature. We concluded a decrease in a-amylase activity w and ethylene is related to the inhibition of seed germination under high \times formolongi hort.

Key Words: <u>abscisic acid</u>, <u>α-amylase</u>, <u>ethylene</u>, <u>germination rate</u>

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To cite this article:

Kazuhiro Matsumoto, Noboru Nakata, Toshihiko Takami and Fur of Sprout Unevenness in *Lilium* \times *formolongi* hort. Seeds under F Res. (Japan) 9: 427-431.

doi:10.2503/hrj.9.427