

园艺—研究报告

不同药剂对打破玫瑰香葡萄芽休眠的效果研究

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摘要:

以日光温室内葡萄品种‘玫瑰香’(Vitis vinifera ‘Muscat Hamburg’)为试材,选择不同化学药剂对其进行破眠试验,探讨单氰胺等外源生长调节剂打破休眠的效应以及休眠过程中抗性物质含量的变化。结果表明:2.5%单氰胺打破葡萄的休眠效果最好,可使萌芽期提前15天左右,萌芽整齐度及萌芽速率高,显著提高了SOD、POD酶的活性,对CAT酶活性有一定的抑制作用,对丙二醛含量的影响不显著;200 mg/LGA3对打破休眠基本无效甚至有抑制作用,处理后萌芽率低于对照,但可促进芽体形成新梢;150 mg/L 6-BA对打破休眠亦有一定的效果,但对终萌芽率影响甚微。

关键词: 破除休眠

Effect of Different chemicals on Dormancy Release of Muscat Hamburg Grape

Abstract:

Vitis vinifera ‘Muscat Hamburg’ was used in this experiment to do break dormancy experiment with different chemicals, investigating the effect of breaking dormancy and the changes of the resistant materials during dormancy by using exogenous growth regulators such as cyanamide. The results showed that cyanamide (2.5%) could break dormancy steadily, sprout around ahead of 15 d, raise germination uniformity and rate, significantly improve the SOD, POD activity and inhibition the CAT activity, and have no significant effect on the content of MDA; GA3 (200 mg/L) was largely ineffective or even inhibit in breaking dormancy while significantly promote the formation of shoot buds. The germination rate was lower than the control after treatments; 6-BA (150 mg/L) had a certain effect on breaking dormancy, but had little effect on the germination rate.

Keywords: breaking dormancy

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