

研究简报

外源茉莉酸诱导植物反应对小菜蛾生长发育的影响

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收稿日期 2003-11-7 修回日期 2004-2-16 网络版发布日期 接受日期

摘要

关键词

分类号

Effects of exogenous jasmonic acid induced plant responses on development and growth of *Plutella xylostella*

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Abstract

Jasmonic acid (JA) is a naturally occurred growth regulator found in higher plants and a main signal molecule carrying information about injury. Its increased concentration in plants infested by herbivores can induce the wounded plants to produce defense responses which will affect herbivores. The application of exogenous JA to plants could imitate the effects of herbivores infestation. This study showed that applying exogenous JA on cabbage plants did not affect the survival of *Plutella xylostella* larvae, but retarded their development and reduced the pupal weight and female fecundity.

Key words

[Exogenous jasmonic acid](#) [Cabbage](#) [Induced response](#) [Plutella xylostella](#)
[Development and growth](#)

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