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**Abstracts**

## **A 2-year field study of *Coccinella septempunctata* in peach orchards treated with chemically modified and normal Bt-based insecticide**

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In order to improve the stability of Bt-based insecticide, the parasporal crystal of *Bacillus thuringiensis* (Bt) was modified chemically with para-Aminobenzoic acid. The study took place during the vegetation seasons of 2005 – 2006 in peach yards in Pinggu country, North China. Chemically modified Bt-based insecticide and normal Bt-based insecticide were sprayed respectively in peach yards. The test peach yards were colonized by a typical beneficial organism *Coccinella septempunctata* assemblage. *Coccinella septempunctata* abundance was higher in the peach yard where chemically modified Bt-based insecticide was used than in that where the normal Bt-based insecticide was used. The results show that the chemically modified Bt-based insecticide is more beneficial to *Coccinella septempunctata* than normal Bt-based insecticide.

**Keywords:** *Coccinella septempunctata*, chemically modified Bt-based insecticide, peach orchard, field monitoring