

植物保护

## 西花蓟马(*Frankliniella occidentalis*)研究进展\*

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**摘要** 西花蓟马(*Frankliniella occidentalis*)属于缨翅目(Thysanoptera)昆虫,最初分布于美国西部,20世纪80年代开始迅速扩散至全球各大洲,目前已在69个国家和地区有报道,成为世界性害虫。*F. occidentalis*可以以持久性的方式传播番茄斑萎病毒属(*Tospovirus*)病毒,如番茄斑萎病毒(*tomato spotted wilt virus*, TSWV);并且,*F. occidentalis*传播的病毒所造成的经济损失远远大于其本身所造成的损失。因此控制*F. occidentalis*的种群以及它的扩散是控制Tospoviruses的关键所在,有鉴于此,各国对*F. occidentalis*进行了深入的研究。主要论述了近年来*F. occidentalis*在生物学特征、室内饲养以及它和TSWV的互作关系等方面的进展。

**关键词** [西花蓟马](#) [番茄斑萎病毒\(TSWV\)](#) [研究进展](#)

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## Advances on the Western Flower Thrips(*Frankliniella occidentalis*)

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### Abstract

The western flower thrips (*F. occidentalis*) within the order of Thysanoptera, distributes in the western of the United States natively. Since the 1980s, it spreads to all continents rapidly, by now has been reported in more than 69 countries and area, and became a headache insect of the whole world. *F. occidentalis* transmits Tospoviruses, such as *tomato spotted wilt virus* (TSWV), in a persistent manner, and the losses caused by the viruses are much more severely than losses caused by itself. Controlling *F. occidentalis*'s population and its spreading is the key of controlling Tospoviruses, and many researches have been taken on it. In this paper, we summarized the latest advances on *F. occidentalis*'s biology, rear methods, and its relationship with Tospoviruses.

**Key words** [Western flower thrips](#) [Tomato spotted wilt virus \(TSWV\)](#) [research advances](#)

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