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# Insect Resistance to Bacillus thuringiensis Toxins

Guest Editor:

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### **Message from the Guest Editor**

The insecticidal toxins (Cry and VIP proteins) produced by the bacterium *Bacillus thuringiensis* (*Bt*) have been successfully used to control some major insect pests via both Bt formulation sprays and transgenic crops. The global planting area of Bt crops increased from 1 million hectares in 1996 to 108 million hectares in 2019. However, practical resistance to Bt crops has been reported in at least nine major pest insects. The evolution of resistance to Bt toxins by target pests has been a major threat to the long-term effectiveness of Bt crops. Understanding the evolution and mechanism of Bt resistance is essential for developing sensitive resistance detection methods and adaptive resistance management strategies.

The aim of this Special Issue is to create a collection of recent advances in all aspects of insect resistance to Bt toxins, including detection and monitoring of Bt resistance, genetics and mechanisms of Bt resistance, mode of action of Bt toxins, and resistance management strategies. Both original research and review articles are welcomed.













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## **Message from the Editor-in-Chief**

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