

Special Issue

Recent Advances in *Bacillus thuringiensis* (Bt) Insecticides and Bt Crops: Challenges and Opportunities

Message from the Guest Editors

This Special Issue is dedicated to the multifaceted role of *Bacillus thuringiensis* (Bt) in sustainable agriculture, emphasizing its significance as a biological insecticide and a cornerstone of modern pest control strategies. Bt is renowned for its high specificity, primarily due to its insecticidal toxins, which effectively target a broad range of agricultural pests without harming beneficial organisms or natural predators. Additionally, Bt crops—genetically modified plants that express Bt toxins—are the most widely grown GM crop in agriculture, underscoring their importance in conventional farming systems. This Special Issue covers the latest advancements in Bt research, including the development of new Bt strains and Bt crops, the molecular mechanisms underlying the mode of action of Bt toxins, Bt resistance management, and the ecological impact of Bt applications. By bringing together the most recent studies and expert insights, this Special Issue aims to provide a comprehensive overview of the current status and future directions of Bt technology in global agriculture.

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