

Special Issue

Bt Crops and Pests Management

Message from the Guest Editors

In agro-ecosystems, insect pests cause significant economic losses, making effective pest management crucial for food security. Traditional methods, particularly chemical insecticides, have often failed to prevent extensive pest damage. Genetically engineered Bt crops have emerged as a promising alternative for pest control. This Special Issue aims to present recent research advances, prospects, and challenges related to Bt crops for pest management, as well as strategies developed to overcome these challenges. Topics covered include the development and application of novel Bt crops, their efficacy against target pests, and environmental safety assessments. The issue will explore ecological adaptability, unintended effects, and impacts on non-target organisms and biodiversity. Additionally, gene flow, Bt plant residue degradation in soil, and effects on soil ecosystems will be discussed. Resistance risks and management strategies, as well as integrating the biological and ecological characteristics of pests in resistance management, will also be addressed.

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