

Special Issue

Plant–Insect Interactions in the Agroecosystem

Message from the Guest Editors

Plant–insect interactions lie at the core of agroecosystem function, shaping crop health, productivity and ecological balance. Such interactions are complex, involving behavioral, chemical and physiological processes that influence both pest outbreaks and the effectiveness of natural enemies. With rapid environmental change, the need to deepen our understanding of these relationships has never been more urgent. This Special Issue aims to highlight advances in the ecology, mechanisms and management of plant–insect interactions, focusing on both fundamental insights and applied innovations. We welcome cutting-edge research exploring plant defense responses, insect behavior and sensory ecology, volatile-mediated communication, biological control and integrated pest management strategies. Contributions may include original research articles, short communications and comprehensive reviews addressing crop protection challenges and sustainable solutions. By bringing together studies from diverse agricultural systems, this Special Issue seeks to promote knowledge that supports ecologically grounded pest management in modern agriculture.

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