

Special Issue

Diapause, Adaptation, Phenotypic Plasticity and Control Strategies of Crop Pests

Message from the Guest Editor

The study of insect diapause, adaptation, phenotypic plasticity, and these genetically determined evolutionary behaviors has long been the cornerstone of entomology, providing fundamental insights into how crop pests survive adverse conditions. More recently, this field has converged with the study of diverse and profound adaptive phenotypes underpinning pest resilience and geographic expansion in the face of climate change and management pressures, providing a theoretical basis for the formulation of pest control strategies.

This Special Issue welcomes the submission of cutting-edge research at the interplay between diapause, adaptation, phenotypic plasticity behaviors, and ecological environments in major crop pests. We seek contributions that leverage advanced tools to unravel the physiological and genetic regulatory mechanisms of diapause, adaptation, and phenotypic plasticity behaviors of crop pests in rapidly changing agroecosystems and at the same time propose innovative pest control strategies.

Guest Editor

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