

Special Issue

The Biology, Ecology, and Management of Plant Pests

Message from the Guest Editors

Plant pests have significant impacts on agricultural productivity and ecosystem stability. Understanding the biology and ecology of these pests is essential to develop effective and sustainable pest management strategies. This Special Issue seeks to highlight research on the complex ecological relationships between pests and their surroundings. This type of research includes investigating the pivotal role of natural enemies in regulating pest populations, studying the mechanisms and potential of host plant resistance as a defensive strategy, and analyzing how various environmental factors interact to influence pest population dynamics and community structures. We encourage submissions that showcase innovative biological control methods and integrated pest management (IPM) programs, such as biomathematical modeling, remote sensing and multispectral technologies, and the introduction of natural predators or pathogens; advances in ecological engineering approaches that modify the environment to suppress pest populations; and other novel management tactics that offer environmentally friendly alternatives to conventional chemical control.

Guest Editors

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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