

Special Issue

Wheat–Pest Interaction: From Biology to Integrated Management

Message from the Guest Editors

Wheat (*Triticum aestivum* L.) is one of the most important crops worldwide and provides almost 20% of the calories consumed by humans. Wheat insect pests, including cereal aphids, wheat midges, and underground pests, threaten wheat yield and quality. Conventional chemical pesticide application contributes to increasing wheat yields, but it causes a severe negative impact on the environment and human health. It is necessary to establish effective and environmentally friendly management strategies for wheat insect pest control through ecological and behavioral regulations and biological control, which need to understand the wheat–insect pest interactions. Therefore, this Special Issue will highlight the identification of wheat plant resistance germplasms and their mechanisms, induced plant defense, effectors involved in modulating plant immunity, potential uses and mechanisms of plant volatiles for push–pull technology, and wheat and other plant intercropping and biodiversity strategies for pest control. This Special Issue will also focus on the effects of global climate change on wheat–pest–natural enemy interactions in wheat ecosystems.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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