

## 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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### Guest Editors

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### Deadline for manuscript submissions

closed (20 October 2022)



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### Editor-in-Chief

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