

Special Issue

Strategies for Sustainable Innovative Crop Pest Management

Message from the Guest Editor

Agriculture faces pressing challenges. We need to reduce our reliance on chemical pesticides to manage new/invading/emerging pests. Addressing these issues demands innovative solutions that harmonize agricultural productivity with global health. This Special Issue invites cutting-edge and upscaling research results on sustainable pest management (all harmful organisms, pathogens, weeds, and animals), positioning plants as central components in agroecosystem resilience. We emphasize the multiple roles of plants as providers of ecosystem services or inadvertent disservices (e.g., the spread of pests). Their genetic, compositional, and ecological diversity underpins agroecological strategies such as intercropping, habitat diversification, and plant-microbe synergies, reducing reliance on chemical pesticides. Submissions should explore novel approaches and management solutions, including AI-driven monitoring, new genomic technics-based options, plant-derived biopesticides aligned with integrated pest management (IPM) frameworks, etc.

Guest Editor

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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, 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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