

Special Issue

Leaf Diseases and Management

Message from the Guest Editors

Leaves are the primary plant organ used for photosynthesis. Leaf diseases caused by fungal, bacterial, viral, and oomycete pathogens, such as spots, blights, rusts, powdery mildew, downy mildew, curls, mosaics, and necrosis, are major threats to crop yield and grain quality worldwide. Management tools for leaf disease control include, but are not limited to, exclusion and/or eradication of pathogens, vectors, and infected plants, physical barrier protection, application of fungicides and bactericides, adoption of biocontrol agents, cultural practices that help avoid the potential for infection, and development of disease-resistant cultivars. To improve the efficacy of these tools, we need to deepen our understanding of plant–pathogen interaction mechanisms and come up with novel disease-management strategies. This Special Issue focuses on the current advancements in leaf disease mechanisms and management ideas. All relevant contributions, including those at molecular, genetic, genomic, population, microbiome, and field levels, are welcome.

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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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