

Special Issue

Cereal Fungal Diseases: Etiology, Breeding, and Integrated Management

Message from the Guest Editors

Diseases caused by fungal pathogens contribute to a significant reduction in the yield of cereals. Effective plant protection methods require the characterization and control of fungal pathogen populations, as well as the identification and characterization of new, effective sources of resistance. Monitoring changes in pathogen populations allows us to postulate the speed of breaking down resistance genes in plants, while the genetic and molecular characteristics of resistance genes allow planning effective plant protection strategies related to, for example, gene pyramidization. We aim to approach the subject comprehensively, publishing research results in the field of:

- The etiology of individual fungal diseases
- Characteristics and dynamics of changes taking place in the population of pathogens
- The diversity of pathogen populations at different levels of genetic information
- The interaction of the plant and the pathogen during infection
- New sources of resistance; identification, characteristics, methods allowing for their identification
- Integrated disease management strategies using agricultural practices.



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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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