

Special Issue

Diagnosis of Plant Pathogenic Fungi and Oomycetes and Plant Breeding for Disease Resistance, 3rd Edition

Message from the Guest Editors

DNA sequencing technology has revolutionized the taxonomy and diagnostics of true fungi and oomycetes, here referred to as fungi in a broad sense. Whole-genome sequencing of plant pathogens made the targeted design of primers for molecular diagnosis possible, next-generation sequencing proved to be a powerful tool to study the plant-associated microbiomes and the multi-locus sequence phylogeny resulted in a substantial taxonomic and nomenclatural revision of families and genera, including those of important plant pathogens. However, defining species boundaries is still challenging, and plant pathologists feel the need for a more stable molecular taxonomy. The aim of this Special Issue is to stimulate the debate on the implications of molecular taxonomy for both plant pathology and crop breeding for disease resistance. This Special Issue welcomes reviews addressing these general topics and scientific contributions demonstrating the usefulness of molecular techniques in identifying fungi associated with agricultural and forestry plants.

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Message from the Editor-in-Chief

The *Journal of Fungi* (JoF, ISSN 2309-608X) is an international, peer-reviewed, scientific, open access journal that provides an advanced forum for studies related to pathogenic fungi, fungal biology, and all other aspects of fungal research. Research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. David S. Perlin

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