Special Issue

Detection and Diagnostics of Fungal and Oomycete Plant Pathogens

Message from the Guest Editor

In agriculture and forestry the development and validation of molecular detection tools for different organisms is important for phytosanitary export certification, which relies on having methods to identify plant pathogens associated with plants, grains and seeds. Over the last decade, several genomes of plant pathogens have been made available, largely due to the development of high-throughput sequencing (HTS) technologies. Knowledge of the genome and its structure can help us better understand these organisms and is a valuable resource for the development of detection and genotyping tools. Often disease may be present in plants despite no symptoms being visible. This underscores the importance of having molecular methods for the detection of pathogens for improved sensitivity and to allow high-throughput sample processing while decreasing the dependency on time-consuming culturing methods. The development of technologies for the detection and identification of pathogenic fungi and oomycetes is continuously evolving as new and innovative tools for sequencing and analyzing genomes become available.

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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