

Special Issue

Taxonomy and Identification, Evolution and Comparative Fungal Genomics of Plant Pathogenic Fungi

Message from the Guest Editors

Fungi is a kingdom that includes a large number of pathogens that have an enormous impact on the production and quality of food, fiber, and biofuel crops worldwide. A fundamental aspect to all of these concerns is the accurate identification of pathogens. With the development of whole genome sequencing techniques, it is an inevitable trend to define the species concept from morphological, multigene-based, and whole genome sequence-based classification. With the increasing fungal genome sequences, a large number of candidate genes potentially related to morphological, ecological, physiological, and reproductive differences among closely related, as well as divergent, species will be revealed for application in regulatory plant health. In this Special Issue, the following topics can be presented: species concepts in fungi; identification of plant pathogenic fungi; fungal DNA barcoding and sequence-based classification and identification; and whole genome sequence-based classification and identification. In addition, potential authors are invited to submit original research articles, review articles, opinion papers, and short communications.

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