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Forest Tree Diseases Genomics: Growing Resources and Applications

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Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editors

A large number of fungi and oomycetes are of Tree Pathology. On one hand, fungi and oomycetes are among the dominant causal agents of plant diseases; on the other hand, fungi or oomycetes are also biological control agents of pathogens. Our understanding of the diversity, host range and specificity of fungi and oomycetes has improved with the enrichment of knowledge surrounding taxonomy and phylogeny over the years; however, many unknowns remain.

Fungi and oomycetes genomes are easily obtained, and have been used as models for genome evolution and the reconstruction of the phylogenetic relationship using genome-scale data. In these models, groundbreaking comparative genomic studies making use of these features have already been published.

The aim of this research topic is to collect articles focusing on the biodiversity, molecular systematics, and taxonomy of fungi and oomycetes all over the world. Additionally, approaches to the diagnosis of fungal and oomycete plant diseases, including advances in the field of molecular diagnosis of fungi and oomycetes, are welcome. Research involving diagnostic techniques should demonstrate improvements in diagnostic accuracy and time.



mdpi.com/si/173725

Special Issue



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