

Special Issue

Forest Fungal Diseases Detection, Diagnosis and Control

Message from the Guest Editors

Forests play a vital role in maintaining global biodiversity, carbon sequestration, and ecosystem stability.

However, fungal diseases pose a significant threat to forest health, leading to economic losses, ecological degradation, and reduced resilience to climate change.

Early detection, accurate diagnosis, and effective control strategies are essential for mitigating these impacts and ensuring sustainable forest management.

This Special Issue aims to bring together cutting-edge research on forest fungal diseases, focusing on innovative approaches in detection, diagnosis, and control. We welcome original research articles, reviews, and case studies that address (but are not limited to) the following topics:

- Advanced detection techniques (e.g., remote sensing, molecular diagnostics, AI-based image analysis);
- Pathogen identification and genomic characterization;
- Epidemiology and ecological impacts of forest fungal diseases;
- Biological, chemical, and integrated management strategies;
- Climate change and emerging fungal threats;
- Resistance breeding and host–pathogen interactions;
- Policy and management frameworks for disease mitigation.

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About the Journal

Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).