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Recent Scientific Developments in Forest Pathology

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Message from the Guest Editor

Dear Colleagues,

Plant–pathogenic fungi, phytophthoras, bacteria (including phytoplasmas) and viruses can cause serious plant diseases, affecting natural ecosystems and plant biodiversity. Furthermore, global warming introduces insects and diseases to new geographic locations. Pathogenic microbes are identified via isolation in vitro and molecular tools (PGR, phylogenetic analysis, ELISA, etc.). Recent scientific developments include metagenomic microbiome investigations via next-generation throughput sequencing and bioinformatics. Furthermore, new environmentally friendly sustainable disease control methods are being developed, including biological control agents (BCAs). However, many pathogens remain understudied, including uncultivable in vitro the Candidatus species in wild forests.

Potential topics include, but are not limited to:

Forest pathology: diseases of forest plants;

Urban forests and diseases;

Forest entomology: insect vectors;

Diseases and forest ecology, management and restoration;

Diseases and climate change impacts, adaptation and mitigation in forests.

Dr. Deividas Valiunas

Guest Editor



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Special Issue



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