

Special Issue

Genetic Mechanisms of Environmental Adaptability of Forest Tree Species

Message from the Guest Editors

This Special Issue "Genetic Mechanisms of Environmental Adaptability of Forest Tree Species" of *Forests* focuses on the genetic basis of environmental adaptability in forest trees. We invite articles that delve into the genome-wide identification and analysis of genes and genetic pathways that enable forest trees to withstand various environmental stresses, including drought, temperature extremes, pathogens, and soil nutrient deficiencies. Studies that leverage cutting-edge techniques such as genome-wide association studies, quantitative trait locus mapping, and next-generation sequencing are particularly welcome. We aim to showcase research that enhances our understanding of how genetic variation, gene expression, and epigenetic modifications contribute to the resilience of forest trees. Contributions that improve identification methods, analyze population-level genetic diversity, or provide the functional verification of key adaptive genes are highly encouraged. This Special Issue seeks both theoretical insights and empirical findings that will guide future conservation efforts, breeding programs, and the development of climate-resilient forest tree populations.

Guest Editors

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Deadline for manuscript submissions

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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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