



Genomic Analysis of Growth and Stress Adaptation in Forest Trees

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submissions:

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Message from the Guest Editors

Dear Colleagues,

In forests, physiological and molecular patterns of stress resilience and adaptation associated with favorable environmental and phytohormone cues are postulated to collectively affect survival and evolution. This Special Issue aims to stimulate fundamental research and collect the latest discoveries within genomic and genetic regulatory mechanisms in tree growth, tolerance, and defense immunity to various stress cues. Potential topics include, but are not limited to, the following:

- Novel findings of genome sequencing (e.g., plastomes and mitogenomes), strategies in genome editing, genetic transformation, and the innovation in forest tree performance;
- Multi-omics studies to characterize candidate genes/families impacting tree growth, biomass, adapted environment;
- Development of high-efficiency transformation and genome editing systems for tree species;
- Applications of synthetic biology to generate valuable bioactive constituents in engineered plants.

All types of submissions, including original research, high-quality reviews, methodologies, perspectives, and opinion articles in this field, are welcome.





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Message from the Editorial Board

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