

## Special Issue

# Genomics of Growth Traits and Stress Acclimation in Forest Trees

### Message from the Guest Editors

The forest ecology and sustainable utilization of timber sources are crucial owing to the concomitant influence of a variety of stress cues. Molecular patterns of genetic resilience and resistance in correlation with favorable environments and nutrients are postulated to collectively impact survival and evolution in forest-tree species. Tree growth, stress adaptation, and defense priming are mounted concurrently with a profound deployment of genomic traits and metabolic and signaling genes underlying the transcriptional/translational mechanisms. Recent technique innovation in functional genomics, genetics, and omics accelerates optimizing growth performance and alternative strategies for stresses and quality/biomass-related traits in forest trees. Specific QTL/gene identification and experimental evaluation for major genomic traits make the molecular breeding and development of stress-resilient and high-biomass energy trees incredibly important. Thus, an in-depth perception and unveiling of cellular and metabolic processes in trees are expected to pave the way toward novel strategies based on the reorientation of growth traits and stress acclimation.

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### Guest Editors

Dr. Tao Su

Dr. Su Chen

Prof. Dr. Nan Liu

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### Deadline for manuscript submissions

closed (31 August 2023)



## Forests

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*Forests*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[forests@mdpi.com](mailto:forests@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,  
I-25121 Brescia, Italy

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