

## Special Issue

# Strategies for Tree Improvement under Stress Conditions – 2nd Edition

### Message from the Guest Editors

Perennial woody plants are usually faced with multifactorial adverse conditions during their long lifespan, which impairs their growth and productivity. To cope with these adverse conditions, trees deploy morphological, physiological, and molecular responses to adapt to the environmental constraints. By using high-throughput sequencing and bioinformatic approaches, many hub genes involved in stress responses were identified. In recent years, with the advantages of transgenic technology in woody plants, many candidate genes participating in stress responses were functionally characterized and showed great potential for tree improvement under different stresses. On the other hand, cultivation strategies (including beneficial microorganism investigation, beneficial microorganism inoculation, mixed forest, etc.) also play crucial roles in tree improvement under abiotic and biotic stress. This Special Issue focuses on the strategies for tree improvement under stress conditions; all original research findings and perspectives relative to tree improvement in coping with environmental constraints are welcomed.

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### Deadline for manuscript submissions

closed (31 August 2024)



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Impact Factor 2.5  
CiteScore 4.6



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