



Abiotic Stress in Tree Species

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Message from the Guest Editors

Most terrestrial biodiversity is built on the living foundations of trees. Trees are unique with their woody bodies, which requires water and nutrient uptake from underground to tens of meters elevated photosynthetic canopies. The growth and development of trees are susceptible to environmental changes such as drought, soil salinity, heavy metal ion stress and extreme temperatures. Therefore, abiotic stress signaling and physiological response might distinct with herb plants. This Special Issue plans to give an overview of the most recent advances in the research field of abiotic stress in tree species. This Special Issue is aimed at providing selected contributions on advances in the stress sensing, signal transduction, physiological response of tree species under water deficit, salinity, cold, heat, heavy metal stress and other environmental changes.

Potential topics include, but are not limited to:

- Drought stress signaling and responses;
- Cold and heat stress signaling and responses;
- Ionic stress signaling;
- Ca^{2+} and ROS signaling;
- ER stress;
- ABA response and signaling;
- Stomata movement regulation;
- Organelle interaction in abiotic stress.





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