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Climate and Tree Growth Response: Advances in Plant Sciences

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Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Wood formation is controlled by biotic and abiotic factors in different temporal windows during the growing season, affecting wood structure and function, forest productivity and carbon–water relationship at a global scale. Although climate factors are the main drivers of tree growth, tree-ring formation might be affected by other non-climatic factors such as wildfires and insect outbreaks, leaving a permanent mark in the xylem structures. Thus, by analyzing tree growth from a multiparametric approach (dendroclimatology, climate reconstruction, tree growth modeling, etc.), it is possible to highlight the adjustments of trees to their environment while growing in a spatio-temporal context. In this Special Issue, we aim to compile experimental and theoretical research to get a better understanding of the environmental factors controlling tree growth and forest decay, from the regions which are most sensitive to climate change, as well as research summarizing the most recent advances in plant science research, based on different proxies considering large geographical or bioclimatic regions.



mdpi.com/si/130960

Special Issue



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Message from the Editor-in-Chief

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