



Wood Formation and Environmental Constraints: Multiscale Approach

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Message from the Guest Editors

The combination of a multidisciplinary approach integrating the analysis of xylogenesis with the retrospective reconstruction of past plant growth behaviour through the quantification of functional anatomical and isotopic traits in long-term tree-ring series has already proven to be a powerful tool to provide invaluable information on plant responses to environmental changes. However, given the large variability of involved factors in plant–environment interactions, it is necessary to apply combined multiscale approaches to achieve a better understanding of the complex wood formation process.

This Special Issue of *Forests* invites contributions in line with a multiscale approach covering a range of different disciplines from the cellular level (genetic, xylogenesis) to individuals (dendrochronology, maximum latewood density, blue intensity, wood anatomy, photosynthesis and flow measurements) and population (modeling).

Keywords: xylogenesis; dendrochronology; quantitative wood anatomy; functional anatomical traits; isotopic analysis; blue intensity; environment–growth relationships





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