



Forest Physiological and Ecological Processes: Ecophysiology from Molecules to Ecosystems

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Message from the Guest Editors

Understanding how abiotic and biotic factors influence the physiology of forest organisms and how physiological mechanisms of forest organisms regulate ecosystem processes and biogeochemical cycles—in other words, the study of forest ecophysiology—is key to maintaining forest ecosystem services under intensifying natural and anthropogenic pressures. Forest organisms have a range of 22 orders of magnitude in mass, from the tiniest microbes to the largest tree, and ecophysiological techniques measure processes at spatial scales that span even more orders of magnitude in size, from tracing individual molecules to satellite imagery of regional, continental, and global landscapes. The empirical and modeling approaches used to study forest ecophysiology are similarly diverse. In this Special Issue, we broadly explore current research designed to improve our understanding of interactions between forest physiological mechanisms and ecosystem processes in both managed and unmanaged forest ecosystems worldwide. We welcome contributions reporting experimental results from a variety of techniques, including modeling, as well as theoretical results and topical reviews.





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