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Selecting Climate Resilient Tree Species for Forest Restoration – What Is Necessary and What Is Possible?

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Message from the Guest Editors

Upcoming forestry decisions on the choice of the most suitable tree species and adequate management concepts in a future warmer world require bringing biological knowledge, silvicultural experience, and economic expertise together and interlocking theory and practice.

(1) Insufficient knowledge: We invite contributions that improve our knowledge of the influence of climatic factors on the growth and vitality of indigenous tree species and their stress tolerance in order to enable science-based predictions about their performance in a warmer and drier climate.
(2) Inadequate consideration of research results: Existing knowledge on the stress tolerance and growth physiology of tree species is still not sufficiently used in forestry planning or not adequately transferred to forestry practitioners.
(3) Gaps in existing forest research capacities and strategies for the future: Interdisciplinarity and the link between basic and applied research are often not well developed, and not much capacity exists to develop innovative concepts beyond the beaten track.

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Message from the Editor-in-Chief

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