



## The Adaptation of Forest Trees under Climate Change

Guest Editor:

**Dr. Āris Jansons**

Latvian State Forest Research  
Institute Silava, Rigas Street 111,  
2169 Salaspils, Latvia

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### Message from the Guest Editor

The adaptation of forests to ongoing climate change is essential to ensure the long-term vitality of these ecosystems. There are gaps in our knowledge on the adaptation of forests to meteorological extremes (which are predicted to become more common in future), as well as their adaptation to various direct and indirect interacting effects of climate change. Measures to enhance adaptation and the perception of such measures among forest managers and society at large need to be enacted to ensure the vitality of this ecosystem in future. Potential topics include, but are not limited to, the following:

Direct and carry-over effects of weather extremes on growth, vitality, and wood traits;

Adaptive forest management from plot to landscape scales;

Genetic determination of traits essential to adaptation (from clone to provenance level);

Effect of single and multi-layer tree species mixtures on traits essential to adaptation;

Enhancement of forest resistance against and/or resilience to effects of climate change;

Measures to enhance adaptation as part of biodiversity maintenance strategies;

Social perception of forest adaptation, maladaptation, and measures to enhance.





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Forests Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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