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Genetic and Genomic Perspective to Understand Drought Response in Forest Trees

Guest Editor:

Dr. Claire Depardieu
1. Canada Research Chair for Forest Genomics, Institute for Systems and Integrative Biology, Université Laval, Quebec City, QC, Canada
2. Forest Research Center, Département des Sciences du Bois et de la Forêt, Université Laval, Quebec City, QC, Canada

Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

The increase in frequency and intensity of drought stress induced by climate change represents a serious risk to forest health and ecosystem services. Intraspecific genetic variation is expected to play an important role in (1) determining the adaptive capacity of tree populations in the face of rapid climate change, (2) enabling the integration of drought-related traits into tree breeding and (3) supporting assisted climate-based seed transfer. Knowledge of local adaptation, genetic diversity, and genetic control of drought-related traits is crucial to better predict the vulnerability and resilience of tree populations to future climatic conditions. Increasingly, genomic approaches are being used to study such adaptations of wild populations or populations from common garden field trials.

With this Special Issue of the journal *Forests*, special attention will be given to the genetic influence of drought response and resilience of tree species. Common garden studies, gene expression/transcriptome studies, as well as studies using quantitative trait locus (QTL), genome scan, and genotype association approaches will be considered for publication.

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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editor-in-Chief

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Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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