



## Forest Genomics and Transcriptomics

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### Message from the Guest Editor

Genome analyses of tree populations have uncovered genes involved in traits of economic importance, primarily growth and wood quality, pest and diseases resistance, and adaptation and response to biotic and abiotic stress. Genes that regulate growth and development have been identified, and in many cases their mechanisms of action have been described. Genomics is now making it possible to rapidly improve knowledge and develop tools to accelerate breeding programs. However, in contrast to many annual crops that have benefited from centuries of domestication and extensive genomic and biotechnology research, in forestry, the field is still in its infancy. Bioinformatic analyses derived from RNA-seq of forest trees are particularly challenging because of the massive genome length and the absence of annotated reference genomes. Thus, tremendous opportunities remain unexplored.

The present Special Issue in the journal *Forests*, entitled "Forest Genomics and Transcriptomics" encourages the submission of research as well as review papers dealing with new advances in tree genomics and transcriptomics that could be related to new perspectives in tree breeding and management.





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