

Special Issue

Omics in Forest Trees Ecology and Its Applications to Genetic Resources Conservation and Breeding

Message from the Guest Editor

Genome diversity is the result of complex interplay between demographic history and adaptation to ever-changing environments. Understanding the relationships between the (epi)-genomic level and higher levels of organization with the environment is of paramount importance in order to understand, or even predict and anticipate, the impact of environmental change on forest trees and therefore protect the resource they represent. The development of next-generation sequencing technologies has opened a wealth of new perspectives with both theoretical and practical implications. To name a few, it is now possible to i) quantify genome-wide responses to natural selection, ii) describe the genetic architecture of adaptations and, to some extent, iii) predict population/species responses to climate change based on current genetic diversity. In this issue, we welcome studies investigating such questions using -omics data (e.g., SNPs, structural variants, epigenetics, RNA), possibly coupled with phenotypic or ecological data. Simulation, modeling-based, and methods-focused studies are also welcome.

Guest Editor

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Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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