



Current Applications of Genetics to Forestry

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Message from the Guest Editors

Genetics is a rapidly progressing area of biological sciences with increasing economic and ecologic relevance in Forestry and Conservation during the last years. Traditional selection procedures have driven the collection and production of forest reproductive materials, obtaining significant improvements.

Knowledge of inter- and intraspecific genetic diversity, gene flow, and migrations, as well as genetic breeding focused on production and resistance to abiotic threats, diseases, plagues, and pests, facing global change, will play an increasingly key role in forestry activities and policies in the future.

This Special Issue of Forests is aimed an overview of the currently ongoing applications of genetics to forestry, including diversity studies, common garden experiments, advances in the comprehension of the life-term plastic response and genetic/epigenetic adaptations of usually long-living forest tree species, as well and genetic breeding, especially those taking advantage of the most recent techniques (massive sequencing, bioinformatics, new phenotyping and analysis techniques, clonal propagation of elite genotypes, etc.), as well as future prospects in these areas.





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Message from the Editor-in-Chief

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