Special Issue

Genomics and High-Throughput Phenotyping to Characterize Forest Genetic Resources for Conservation and Breeding

Message from the Guest Editors

The advancements of technology in genomic and high-throughput phenotyping tools is creating new opportunities and challenges for the characterization of forest genetic resources (FGR). The information obtained by the use of these tools separately, but most preferably in an integrated manner, will constitute a basis for assessing the genetic and adaptive variation levels of FGR, the representativeness of their conservation efforts so far, their in situ and ex situ conservation needs, their resilience to biotic and abiotic factors, as well as their potential for use in forest tree breeding programs.

The aim of the Special Issue is to compile and present cutting-edge studies which focus on the use of genetic/genomic and high-throughput phenotyping methods in order to monitor and characterize FGR in terms of distinctiveness and genetic/adaptive variation. The development of such techniques will allow the detection of conservation gaps, as well as the identification of genetic resources that could be of significance for conservation and/or breeding programs.

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