Special Issue

Phenotypic and Genetic Diversity in Tree Species

Message from the Guest Editors

The key challenges in forest tree species research are intricately linked to the sustainable development of agroecological habitats. This includes enhancing adaptability to environmental constraints, increasing resistance to biotic stresses, and selecting novel genotypes with superior traits. The effective utilization, conservation, and sustainable management of plant genetic resources are crucial to ensure the preservation of the environment for future generations. These factors are pivotal in determining tree system adaptability to diverse conditions. In recent decades, significant progress has been made in applying molecular tools to characterize and conserve genetic diversity in forest tree species. Molecular marker technologies are increasingly used to explore genetic structure and function, providing the high-resolution profiling of DNA variation within tree germplasm collections. Advances in DNA-based data and innovative phenotyping techniques are bridging the gap between genotype and phenotype, enabling more effective selection of tree species.

Guest Editors

Dr. Chiara Catalano

Department of Agriculture, Food and Environment, University of Catania, Via Santa Sofia 100, 95123 Catania, Italy

Prof. Dr. Gaetano Distefano

Department of Agriculture, Food and Environment, University of Catania, Via Santa Sofia 100, 95123 Catania, Italy

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Forests
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
forests@mdpi.com

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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

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