

Special Issue

Forest Tree Genetics, Breeding and Environmental Adaption

Message from the Guest Editors

Forest tree species are increasingly threatened by the impacts of climate change, including drought, extreme high and low temperatures, heavy metal contamination, soil salinity, and the spread of pests and diseases. Recent advancements in genomics, marker-assisted selection, genomic prediction, and genome editing provide powerful tools to effectively harness the genetic diversity of trees. These technologies enable molecular breeding, facilitating precise early selection, enhancing efficiency, and reducing the time and costs involved in forest tree breeding. Consequently, these improvements will enhance our ability to respond to or mitigate the emergence of new abiotic and biotic environmental stressors.

This Special Issue will focus on the genetic breeding of forest trees and their adaptation to rapidly changing environments. It will explore the genetic and molecular mechanisms underlying stress resistance traits in trees, aiming to identify innovative breeding strategies that enhance their resilience to environmental stressors. Original research articles and reviews in this area are also welcome.

Guest Editors

Dr. Jingli Yang

State Key Laboratory of Forest Genetics and Tree Breeding, Northeast Forestry University, Harbin 150040, China

Dr. Huiyu Li

State Key Laboratory of Forest Genetics and Tree Breeding, Northeast Forestry University, Harbin 150040, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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