

Special Issue

Genetic and Molecular Basis and Development Under Environmental Adaptation

Message from the Guest Editors

The understanding of the genetic and molecular basis of the establishment, growth, development, and reproduction of conifer tree species, contributes to: the protection or management of forest germplasm resources based on genetic analysis, the rapid breeding of new varieties with desirable traits based on marker-assisted selection, gene editing, or transgenesis, the production of tree seed orchards or the breeding of superior seedlings based on hormone or nutrient regulation, and also provides a basis for forest management under climate change scenarios.

Therefore, the purpose of this special issue is to attract introductions of genetic or molecular advances in plants, mainly conifer tree species, focusing on: the discovery of new genes/new loci, morphogenesis of tree organs, the functional analysis of important trait genes and regulatory mechanisms, the root formation molecular mechanisms of hard-to-root trees, the mechanism of fruit or seed formation, the formation molecular mechanisms or genetics of hybrid vigor and polyploidy advantage, and the genetic or molecular basis of tree molecular assistance and designed breeding. We look forward to receiving your contributions.

Guest Editors

Dr. Yunhui Xie

Dr. Ermei Chang

Prof. Dr. Jinhui Chen

Dr. Hao Chen

Deadline for manuscript submissions

closed (31 January 2026)



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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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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.

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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