Special Issue

Advances in Tree Germplasm Innovation and High-Efficiency Propagation

Message from the Guest Editors

Tree germplasm innovation and high-efficiency propagation are closely related to human living conditions and economic interests. The long breeding cycle and shortage of germplasm resources are the main factors limiting tree germplasm innovation. CRISPR/Cas9 technology provides an opportunity for genetic improvement. Somatic embryogenesis technology is not only an important transformation system of genetic engineering but can also enable the excellent genotypes of trees to reach the level of commercial production. Cryopreservation can preserve germplasm resources stably for a long time. Cutting, grafting, and seedling nursing with equipment reduce the cost of propagation and cultivation of excellent genotypes of trees. This Special Issue is planned to give an overview of the most recent advances in the field of tree germplasm innovation and high-efficiency propagation, potential topics include but are not limited to:

- Micropropagation;
- Genome breeding;
- Protoplast fusion;
- Haploid generation;
- Cryopreservation of germplasm;
- Sexual reproduction (seed development, seed germination, embryology);
- Seedling nursing with equipment;
- Multi-varietal forestry, MVF.

Guest Editors

Prof. Dr. Ling Yang

1. College of Forestry, Beijing Forestry University, Beijing 100091, China
2. Department of Biology, Shenzhen MSU-BIT University, Shenzhen 518172, China
3. State Key Laboratory of Tree Genetics and Breeding, Northeast Forestry University, Harbin 150040, China

Prof. Dr. Iraida Nikolaevna Tret'yakova

V.N. Sukachev Institute of Forest, Federal Research Center "Krasnoyarsk Science Center", Siberian Branch of RAS, Krasnoyarsk, Russia

Deadline for manuscript submissions

Forests

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 4.4

mdpi.com/si/147188

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

mdpi.com/journal/forests

Forests

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 4.4

mdpi.com/journal/forests

MDPI

About the Journal

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank:

JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2024).