

## 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.

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### 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

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**Deadline for manuscript submissions**



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