

## Special Issue

# Forest Tree Breeding: Genomics and Molecular Biology

### Message from the Guest Editors

The field of forest tree breeding possesses a long history, dating back to ancient times when people cultivated tree species through natural and/or artificial selection. During its extensive history, innovative methods and techniques have frequently played a crucial role in the advancement of forest tree breeding. Techniques in genomics and molecular biology have greatly accelerated the progress of forest tree breeding, guiding it into the era of Breeding 3.0. Rapidly developing artificial intelligence (AI) technology, represented by genome selection methods, has further propelled forest tree breeding into the 4.0 era. In this Special Issue, we invite studies discussing the latest research on forest tree breeding, conducted through genomics and molecular biology approaches, as well as other related fields. Potential topics include, but are not limited to, the following:

- Genetic resources of forest trees (including genome evolution);
- Genomic selection in forest tree breeding;
- Characterization of gene functions in forest trees;
- Novel methods in genomics and molecular biology for forest tree breeding.

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### Guest Editors

Prof. Dr. Zefu Wang

Prof. Dr. Yuanzhong Jiang

Dr. Changwei Bi

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### Deadline for manuscript submissions

31 August 2025



## Forests

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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