

# Special Issue

## Recent Advances in Tree Genetics and Genomics

### Message from the Guest Editor

This Special Issue, *Recent Advances in Tree Genetics and Genomics*, highlights cutting-edge research in forest tree biology. It focuses on genetics, genomics, and molecular breeding, integrating modern tools such as CRISPR-Cas9, GWAS, and multi-omics to optimize traits critical for forestry and ecosystem resilience. Key topics include gene function in adaptive traits (e.g., drought tolerance, nutrient use efficiency), stress resilience to abiotic pressures (e.g., salinity, heavy metal toxicity, extreme temperatures), and climate adaptation to enhance species survival, biodiversity conservation, and carbon sequestration. We also encourage studies on nutrient enrichment in trees to restore soil health, promote sustainable agroforestry, and improve ecosystem services. We welcome contributions on both model (e.g., *Populus*, *Eucalyptus*) and non-model tree species, covering fundamental discoveries and biotechnological innovations. This Special Issue provides valuable insights into the latest advancements in tree genetics and their impact on forestry, conservation, and sustainability.

### Guest Editor

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### Deadline for manuscript submissions

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## Forests

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## 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.

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### Editor-in-Chief

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