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Forest Genetics and Forest-Tree Breeding

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Message from the Guest Editors

Forest trees represent the main body of terrestrial ecosystems. It is widely accepted that accelerating the process of forest tree breeding and enhancing forest biomass production will be helpful in responding to climate change.

The forthcoming Special Issue aims to outline the latest topics of forest genetics and tree breeding research, focusing on the molecular mechanisms of the formation of important traits, such as forest yield, quality and resistance, by using multi-omics methods. Priority will also be given to works that elucidate the changes in plant growth, development and yield induced by environmental stress, or that report on the molecular basis of the plastic phenotypic response of plants to the environment. Studies on the genetic and epigenetic regulatory networks that underpin plant responses to single or combined stresses, including abiotic stress, are also welcome. Topics also include the phenotypic and molecular evaluation of forest tree germplasm in relation to biotic stress, and breeding efforts to increase tolerance or resistance that also use biotechnological and genomic approaches.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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