

Special Issue

Molecular Mechanism of Secondary Metabolic Pathways in Forest Trees

Message from the Guest Editors

Over the years, secondary compounds have been known to be associated with many photochemical processes in forest plants, such as improving the resistance of conifer xylem to insects and fungi, mediating plant responses to biotic or abiotic environmental stresses, and contributing to fruits' flavor and flower colors. The production and distribution of secondary metabolites are usually specific to plant species, organs, tissues, and growth stages. In many forest trees, the biosynthetic pathways of secondary metabolites are complex and diverse, and the discovery of regulatory genes and enzymes involved in the accumulation of their secondary metabolites is still very limited. Research on improving important biological traits of forest trees through genetic improvement is lagging behind. Therefore, this Special Issue plans to provide an overview of the most recent advances in the discovery and characterization of secondary metabolic pathways in forest trees. This Special Issue is aimed at providing selected contributions on advances in the synthesis, characterization, and applications of secondary metabolites in different forest trees.

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