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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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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