Special Issue

The Use of Secondary Metabolites from Trees in Bioprotection

Message from the Guest Editor

Because trees are nonmobile and long-living organisms, efficient defense mechanisms to fight against abiotic and biotic stresses are critical for their survival. Among the existing mechanisms, production of secondary metabolites with toxic activities towards pests and pathogens is of major importance. Purified, those metabolites have also demonstrated toxic activities, which make trees a renewable source of potential compounds for bioprotection (bioelicitors, biocontrol agents, biofertilizers, biostimulants). The field of bioprotection is a quickly expending market, which supports the zero hunger UN Sustainable Development Goal (SDG2). In addition to be sustainable, the use of forestry industry side-streams as raw material for the isolation of bioprotection agents supports circular economy. The feedstock type and quality, extraction process, formulation, application method, active concentration, targeted pests or pathogens are all key questions to solve in developing bioprotection agents. The objective of this Special Issue is to compile recent research on bioprotection strategies using trees' secondary metabolites.

Guest Editor

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