

Special Issue

Specialized Metabolites and Structure of Woody Plants

Message from the Guest Editors

Morpho-anatomical characteristics of leaves, twigs, wood, bark, and roots of woody plants directly affect their resilience, nutrient absorption, and growth. Furthermore, particular isolated cells (idioblasts), tissues, and superficial glands are responsible for the synthesis of specialized metabolites, such as wax compounds, terpenes, alkaloids, and flavonoids, which are vital not only for the plant's own defense against pests and diseases but also hold significant pharmaceutical potential. This Special Issue aims to provide new data on the correlation between the variability of the quantitative characteristics of certain epidermal structures, idioblasts, tissues, or organs of woody plants, on the one hand, and the variability of the chemical composition of the specialized metabolites synthesized by these structures, on the other. Furthermore, studies of trees and shrubs as potentially viable sources of bioactive molecules are expected. Finally, cutting-edge research on extraction techniques developed to intensify the extraction of specialized metabolites from particular epicuticular structures, idioblasts, tissues, or organs of woody plants is also welcome.

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