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Recent Advances in the Effects of Biotic and Abiotic Stressors on Plant Secondary Metabolites

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Plant secondary metabolites are key sources of active medicinal and cosmetic compounds, food flavors and additives, and other biochemicals used in industry. Such metabolite accumulation is common in plants exposed to stresses, including various biotic and abiotic elicitors. Secondary metabolites, such as phenolic compounds, alkaloids and terpenoids, play a major role in the adaptation of plants to their surroundings and help them to cope with stress. Plant cell culture technologies have proven to be effective tools for studying and producing plant secondary metabolites, and for plant improvement.

This Special Issue of *International Journal of Plant Biology*, will be dedicated not only to the physiological aspects of the accumulation and metabolism of biologically active plant compounds under stress factors in plant tissue culture, but also to the influence of biotic and abiotic factors on the phytochemical profile of aromatic and medicinal plant species in in vivo conditions. This Special Issue encourages review and research papers, as well as short communications, on plant secondary metabolites and their regulation under stress conditions.