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Plant Metabolomics: Metabolite Responses to Stress

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Message from the Guest Editors

Plants are constantly exposed to environmental constraints during their development. These stresses are classified as biotic when they involve living organisms (fungi, bacteria, viruses, nematodes, etc.) or as abiotic when induced by the physico-chemical environment (water deficiency, extreme temperatures, excessive salinity, nutrient deficiency, heavy metals, UV, etc.). Exposure to these different constraints negatively affects plant growth and development and often leads to metabolism reconfigurations that reflect either plant adaptation responses or the detrimental effects of stress.

This Special Issue, “Plant Metabolomics: Metabolite Responses to Stress”, welcomes papers exploring the plasticity of the metabolome in response to stress. We welcome the submission of research on plant responses to stress at the metabolite level (non-targeted or targeted approaches) aiming to identify biomarkers of stress tolerance or to better understand the adaptive response of plants under stress conditions.



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Special issue



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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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