Special Issue

Plant Secondary Metabolites Biosynthesis, Biological Activities and Transcriptional Regulation in Response to Abiotic/Biotic Stresses

Message from the Guest Editor

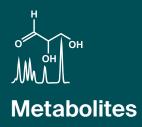
In the diversification of plants, tens of thousands of plant secondary metabolites (PSMs) evolve, which adapt to their changing surroundings. These metabolites play dominant roles in the interactions between plants and other organisms and endow plants with resistance to pathogens, insects, other herbivores, and abiotic stresses, such as cold/freeze, heavy metal, drought, salt, highlight, ultraviolet, heat, etc. The biological functions and transcriptional regulation of these PSMs have been investigated in model plants; however, fewer advancements have been achieved in cultivated crops. These are worthy of more attention as PSMs usually confer color, smell, taste, and tolerance to abiotic and biotic stresses and enhance the nutritional and health values to grains, fruits, vegetables, teas, herbs, and medicinal and ornamental plants. This Special Issue is aimed at providing the latest research on plant secondary metabolites and advances in the biosynthesis, transcriptional regulation, and characterization, including new technologies, methods, and their interaction with abjotic and biotic tolerance.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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