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Abiotic Stress-Induced Secondary Metabolites Regulating Plant Metabolism

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Message from the Guest Editor

When plants are exposed to adverse conditions such as mechanical damage, drought, waterlogging, salinity, ultraviolet radiation, heavy metal pollution, etc., its body produces a series of complex biochemical reactions to activate its own defense system in response to environmental stress. At the same time, the plant is often accompanied by the synthesis and accumulation of secondary metabolites with strong antioxidant capacities, such as flavonoids, phenolic acids, and gamma-aminobutyric acid. Besides, the secondary metabolite presents in plants with one or more aromatic rings containing one or more hydroxyl groups, which have a wide spectrum of biological activities, including antioxidant, antibiosis, etc. Therefore, the synthesis and accumulation of plant secondary metabolites have received extensive attention. The plant organism realizes the synthesis and metabolism of specific compounds by regulating the genes, protein expression levels and signaling of key enzymes in its anabolic pathway. This Special Issue of *Plants* will highlight the function, synthesis, and diversity of plant secondary metabolites in plants and their accumulation under abiotic stress.



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Special Issue



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Message from the Editor-in-Chief

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