

Special Issue

Phytohormones as Regulators of Plant Stress Tolerance

Message from the Guest Editors

Over time, plants have evolved to adapt to the environment. Plant hormones are synthesized via different metabolic routes as part of the secondary metabolism and are small molecules. The classical phytohormones are auxins, gibberellins, cytokinins, abscisic acid, ethylene, and brassinosteroids. In the last few years, compounds such as jasmonates and strigolactones have been added to the list because they function as plant hormones. Plant hormones allow plants to develop in different environments because they regulate many cellular and developmental processes. Food production from agricultural activity has been affected by the desertification of large cultivation areas, water availability, increased soil salinity, and climate change. As a result, studies about the role of phytohormones in the plant response to abiotic stress have advanced significantly in recent years. This Special Issue plans to provide an overview of the most recent advances in the mechanisms and processes regulated by plant hormones in plants under abiotic stress.

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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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