

Special Issue

Genetic Analysis of Plant Adaptation to Abiotic Stresses

Message from the Guest Editors

Genetic diversity forms the basis for plant adaptation to abiotic stresses. This diversity provides plants with the ability to dynamically adjust their physiological and biochemical processes in response to a wide range of environmental stresses. Under stress conditions, plants initiate a series of gene expressions and produce specific proteins to combat the negative effects of the external environment. These gene regulatory processes involve complex signal transduction pathways. This capability impacts plant physiology, morphology, and molecular adaptability, empowering them to effectively contend with particular environmental stresses like drought, high temperatures, and salinity. This Special Issue aims to bring together the latest research results and perspectives on the genetic adaptation of plants to abiotic stresses. We welcome articles including original research papers, perspectives, opinions, and reviews that thoroughly explore the role of genetic diversity, gene regulation, and natural selection in plant adaptation to abiotic stresses.

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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.

Editor-in-Chief

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