Special Issue

Molecular Mechanisms of Plant Stress Regulation

Message from the Guest Editor

Plants constantly face a variety of environmental stresses, both biotic and abiotic, which can significantly impact their growth and productivity. Understanding the molecular mechanisms underlying plant stress responses is important for developing resilient crops that can thrive under adverse conditions. This Special Issue of *Plants* aims to explore the latest research on the molecular pathways and regulatory networks involved in plant stress regulation. We invite submissions that provide insights into the roles of key genes, proteins, and metabolites in stress perception, signal transduction, and adaptive responses. Studies employing cutting-edge techniques in genomics, transcriptomics, proteomics, and metabolomics to dissect these complex mechanisms are particularly welcome. By shedding light on the intricate molecular processes that plants use to cope with both biotic and abiotic stresses, this Special Issue seeks to contribute to the advancement of sustainable agriculture and food security.

Guest Editor

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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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