Special Issue

Molecular Mechanisms and Epigenetic Regulation of Abiotic Stress Tolerance in Plants

Message from the Guest Editors

Abiotic stresses such as drought, salinity, extreme temperatures, heavy metal contamination, and nutrient deficiency/toxicity pose significant challenges to global agriculture, threatening crop productivity and food security. Understanding the molecular mechanisms and epigenetic regulations underlying plant tolerance to these environmental challenges is critical for developing resilient crop varieties and ensuring sustainable agriculture in the face of climate change. This Special Issue aims to collate cutting-edge research and reviews on the molecular pathways and epigenetic modifications that govern abiotic stress tolerance in plants. By highlighting the latest advances in this dynamic field, this Special Issue seeks to provide a platform for researchers to share their findings and foster collaborations aimed at addressing global agricultural challenges.

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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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