

Special Issue

Molecular Regulation of Maize Abiotic Stress Resilience

Message from the Guest Editors

Maize (*Zea mays* L.) is a globally significant staple crop, supporting food security, animal feed, and bioenergy production. However, its productivity is increasingly threatened by various abiotic stresses, including drought, salinity, extreme temperatures, and nutrient deficiencies, that are further intensified by ongoing climate change. Understanding the molecular mechanisms underlying maize resilience to these stresses is essential to guide the development of stress-tolerant varieties and ensure sustainable agriculture.

This special issue aims to showcase cutting-edge research on the molecular basis of maize abiotic stress resilience, integrating multi-omics, functional genetics, and biotechnological approaches to bridge fundamental discovery and translational applications. We warmly welcome submissions of original research articles, reviews, and short communications focusing on (but not limited to) the following themes: genes and regulatory networks, metabolic and physiological responses, as well as evolutionary and adaptive mechanisms.

Guest Editors

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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.

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