Special Issue

The Molecular and Physiological Resistance Mechanisms of Maize in Response to Stress

Message from the Guest Editors

Maize which is a cornerstone of global agriculture, faces numerous abiotic stresses. Over the years, significant progress has been made in understanding maize's resistance mechanisms at the molecular and physiological levels, but there is still much to explore as environmental challenges become more complex.The aim of this Special Issue is to showcase the latest research on the molecular and physiological resistance mechanisms of maize under various stresses. This Special Issue covers a wide range of topics, including, but not limited to, stress-responsive genes and proteins, signal transduction pathways, physiological adaptations, and the interaction between maize and stress factors.Cutting-edge research in this field may involve the use of omics technologies to identify key stress-related molecules, as well as to explore epigenetic regulation in stress responses and to study how maize coordinates molecular and physiological processes to cope with multiple stresses simultaneously. We solicit original research articles and review papers that contribute to the understanding of maize stress resistance.

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