# **Special Issue**

# Mechanisms and Signaling Pathways of Crop Tolerance Under Stressful Conditions

External and internal stressful conditions pose a

# Message from the Guest Editors

significant challenge to agricultural productivity. External stressors are usually categorized into abiotic and biotic factors, including salinity, drought, waterlogging, extreme temperatures, nutrient deficiencies, pathogens, pests, and weeds. However, some threats originate from plants themselves, such as seed dormancy. photoperiodic response, and aging. Stress tolerance in crops involves a complex interplay of physiological, biochemical, and molecular responses that enable plants to sense signals and responses. Understanding the mechanisms and signaling pathways that confer this tolerance is crucial for developing resilient crop varieties that can maintain yield under adverse conditions. This Special Issue will focus on the mechanisms and signaling pathways of stress tolerance in crops. We welcome original research and review articles on environmental abiotic stress, nutrient deficiencies. pathogens, pests, weeds, seed dormancy, photoperiodic response, and aging, among other topics.

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