



What Makes the Life of Stressed Plants a Little Easier? Defense Mechanisms against Adverse Conditions

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Message from the Guest Editors

Plants experience a wide array of environmental stimuli, have a negative impact on their metabolism and growth. As motionless organisms, plants require various mechanisms to recognize and cope with the circumstances. The adjustments in amino acids, proteins, and carbohydrate metabolism, the maintenance of redox balance as well as structural adaptation seem to be the basis of survival in harsh conditions. All defense require signaling involving different molecules. There is a need for intensive research into transcription factors, regulators of gene expression during growth and development. An explanation of roles in stress responses remains fragmentary. Many molecules have the potential to act as priming agents or protectants, whose application constitutes a possible method against a range of stressors and provides intracellular acclimatization. Considering the interest in the multiple approaches to stress, the concept of this Special Issue is to broaden and summarize the knowledge of the stress biology. In particular, original and review papers related to structural, transcriptomics, metabolomics, proteomics, and other integrated stress aspects and their integration



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