

Abiotic Stress Response In Plants

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Understanding abiotic stress responses in plants is critical for the development of new varieties of crops, which are better adapted to harsh climate conditions.

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As sessile organisms, plants must cope with abiotic stress such as soil salinity, drought, and extreme temperatures. Core stress-signaling pathways involve protein kinases related to the yeast SNF1 and mammalian AMPK, suggesting that stress signaling in plants evolved from energy sensing.

[Abiotic Stress Signaling and Responses in Plants: Cell](#)

Abiotic stress cause changes in soil-plant-atmosphere continuum and is responsible for reduced yield in several major crops. Therefore, the subject of abiotic stress response in plants - metabolism, productivity and sustainability - is gaining considerable significance in the contemporary world. Abiotic stress is an integral part of " climate change, " a complex phenomenon with a wide range of unpredictable impacts on the environment.

[Abiotic Stress Responses in Plants - Metabolism...](#)

Abiotic stresses and soil nutrient limitations are major environmental conditions that reduce plant growth, productivity and quality. Plants have evolved mechanisms to perceive these environmental challenges, transmit the stress signals within cells as well as between cells and tissues, and make ap ...

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Drought, heat, cold and salinity are among the major abiotic stresses that adversely affect plant growth and productivity. In general, abiotic stress often causes a series of morphological, physiological, biochemical and molecular changes that unfavorably affect plant growth, development and productivity. Drought, salinity, extreme temperatures (cold and heat) and oxidative stress are often interrelated; these conditions singularly or in combination induce cellular damage.

[Abiotic Stress Response in Plants - Physiological...](#)

Abiotic and/or biotic stress combinations (i.e. the study of how plants respond to two or more different environmental stressors that impact them simultaneously) is a rapidly developing field in plant biology (highlighted in this issue by Zandalinas et al., 2020).

[Plant signaling in biotic and abiotic stress | Journal of...](#)

Therefore, the response of plants to exogenous PAs under osmotic stress and water stress will depend on the plant species. PAs and Salt Stress Salt and drought stress are the two major abiotic stresses in agriculture, and both of them lead to reduced water potential in plants.

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The rapid activation of multiple MAPKs, including MAPK3, 4, and 6, has long been observed in plants in response to biotic as well as abiotic stimuli such as salt, drought, cold, heat, and wounding and in response to growth and developmental signals (de Zelicourt et al., 2016). The challenge in defining MAPK-signaling pathways for abiotic stress remains in the identification of upstream sensor ...

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Plants are more and more affected by environmental stresses, especially by the devastating consequences of desertification and water scarcity which can be seen and felt all over the world. About...

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Abiotic stresses such as drought and high salinity adversely affect the growth and productivity of plants, including crops. The development of stress-tolerant crops will be greatly advantageous for modern agriculture in areas that are prone to such stresses.

[NAC transcription factors in plant abiotic stress...](#)

In the end, most abiotic stresses affect the plant cells in the same manner as do water stress and temperature stress. Wind stress can either directly damage the plant through shear force; or, the wind can affect the transpiration of water through the leaf stomata and cause desiccation.

[Plant Stresses: Abiotic and Biotic Stresses - ThoughtCo](#)

Plants overcome abiotic stresses by altering structure/morphology, and in some extreme conditions, by compressing the life cycle to survive the stresses in the form of seeds. Genetic and molecular studies have uncovered complex regulatory processes that coordinate stress adaptation and tolerance in plants, which are integrated at various levels.

[Multilevel Regulation of Abiotic Stress Responses in Plants](#)

Hydrogen sulfide (H₂S) has been recently recognized as an endogenous gas transmitter alongside nitric oxide and carbon monoxide. Exposure of plants to H₂S, for example through applying H₂S donors, reveals that H₂S play important roles in plant response to abiotic stresses such as heavy metals, salinity, drought and extreme temperatures.

[Hydrogen sulfide: Roles in plant abiotic stress response...](#)

" Biotic and Abiotic Stress Responses in Crop Plants ". Contributions are from different fields including heat stress responses, stress responses during drought and salinity, as well as during flooding, and resistance and susceptibility to pathogenetic stresses and about the role of plant functional metabolites

[Biotic and Abiotic Stress Responses in Crop Plants](#)

Because abiotic stress is widely considered a detrimental effect, the research on this branch of the issue is extensive. For more information on the harmful effects of abiotic stress, see the sections below on plants and animals. In plants. A plant's first line of defense against abiotic stress is in its roots.