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Abiotic Stresses: Plant Resistance Through Breeding and ...

Abiotic Stresses: Plant Resistance Through Breeding and Molecular Approaches explores innovative methods for breeding new varieties of major crops with resistance to environmental stresses that limit crop production worldwide.

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Chapter 1. Stress Environments and Their Impact on Crop Production (Shafiq-ur-Rehman, P. J. C. Harris, and M. Ashraf) Introduction Biotic and Abiotic Stresses Multiple and Variable Stresses and Tolerance Abiotic Stress Symptoms Major Abiotic Stresses Limiting Crop Yield Crop Production in Stressful Conditions Future Prospects; Chapter 2.

Abiotic stresses : plant resistance through breeding and ...

In plants exposed to abiotic stresses, the expression of genes encoding for WAK proteins is up-regulated hinting towards the perception of stress at the cell wall or plasma membrane interface through the detection of released plant cell wall fragments [24, 30]. Thus, it can be concluded that modulation of the cell wall architecture is often a direct response that plays a vital role in the sensitization of the plant against abiotic stress stimuli.

Abiotic Stress Responses in Plants: Current Knowledge and ...

One of the most important abiotic stresses affecting plants is water stress. A plant requires a certain amount of water for its optimal survival; too much water (flooding stress) can cause plant cells to swell and burst; whereas drought stress (too little water) can cause the plant to dry up, a condition called desiccation.

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Plant Stresses: Abiotic and Biotic Stresses - ThoughtCo

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Abiotic Stresses - Taylor & Francis Group

Abiotic stress is defined as the negative impact of non-living factors on living organisms in a specific environment. The stresses include drought, salinity, low or high temperatures, and other environmental extremes. Abiotic stresses, especially hypersalinity and drought, are the primary causes of crop loss worldwide.

Abiotic Stress - an overview | ScienceDirect Topics

Some common examples of the abiotic stresses a plant may encounter include a decreased availability of water, extremes of temperature including freezing, decreased availability of essential nutrients from the soil (or conversely the build-up of toxic ions during salt stress), excess light (especially when photosynthesis is restricted) or increased hardness of the soil that restricts root growth.

Methods and concepts in quantifying resistance to drought ...

Therefore, it is necessary to develop more stress-resilient crop alternatives by both breeding new varieties and promoting underutilized crop species (orphan crops). The articles in this special issue cover responses of staple crops and orphan crops to abiotic stresses relevant under the climate breakdown, such as heat, water, high salinity, nitrogen, and heavy metal stresses.

Plants | Free Full-Text | Plant Resistance to Abiotic Stresses

By binding specifically to cis-elements in the promoter region of stress related genes, they can regulate the transcriptional expressions of target genes, thereby regulating stress resistance of plants. This article comprehensively reviews the structural characteristics of bZIPs and their regulation mechanisms on target genes under various abiotic stresses.

Frontiers | Regulation Mechanisms of Plant Basic Leucine ...

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Breeding and Molecular Approaches

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Abiotic Stresses: Plant Resistance Through Breeding and ...

Abiotic stresses are major constraints limiting crop growth and production. Heat shock factors (Hsfs) play significant roles in mediating plant resistance to various environmental stresses, including heat, drought and salinity. In this study, we explored the biological functions and underlying mechanisms of wheat [...]

Special Issue "Abiotic Stress and Gene Networks in Plants ...

Abiotic stress adversely inhibits the growth and development of plants, by changing the expression of multiple genes. Circular RNAs (circRNAs), as a class of non-coding RNAs, function in transcriptional and posttranscriptional regulation. Yet, the involvement of circRNAs in abiotic stress response is rarely reported. In this study, the participation and function of circRNAs in low-temperature ...

Frontiers | Genome-Wide Identification of Circular RNAs in ...

Plants, as sessile organisms, survive environmental changes by prioritizing their responses to the most life-threatening stress by allocating limited resources. Previous studies showed that pathogen resistance was suppressed under abiotic stresses. Here, we show the mechanism underlying this phenomenon.

Abiotic Stresses Antagonize the Rice Defence Pathway ...

Abscisic acid (ABA) signalling is mainly involved in plant responses to abiotic stresses, such as the cold, drought, and high salinity [16] [17]. However, ABA also acts as a modulator of defence responses against pathogens, both positively and negatively, with its negative role being more prevalent [18] [3] [19] [20] [4] [21] [5] [22].