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Phytohormones to combat drought. The hormone abscisic acid (ABA) regulates plant responses to dehydration and optimizes water use. Dehydration signals stimulate local production of ABA in different...

The physiology of plant responses to drought | Science

Abstract. At the whole plant level, the effect of stress is usually perceived as a decrease in photosynthesis and growth. That is why this review is focused mainly

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Botanical Research

On the effect of drought on photosynthesis, its injury, and mechanisms of adaptation. The analysed literature shows that plants have evolved a number of adaptive mechanisms that allow the photochemical and biochemical systems to cope with negative changes in environment, including increased water deficit.

Plant Responses to Drought, Acclimation, and Stress ...

Plant would response to water stress by dramatically complex mechanisms from genetic molecular express, biochemical metabolism through individual plant physiological processes to ecosystem levels^{2,5,6} which may mainly includes six aspects: (1) drought escape via completing plant life cycle before severe water deficit.

Plant responses to drought and rewatering

To adapt to moisture gradients in soil, plants alter their physiology, modify root growth and architecture, and close stomata on their aboveground segments. These tissue-specific responses modify the flux of cellular signals, resulting in early flowering or stunted growth and, often, reduced yield. Physiological and molecular analyses of the model plant *Arabidopsis thaliana* have identified phytohormone signaling as key for regulating the response to drought or water insufficiency.

The physiology of plant responses to drought

Therefore, breeding for drought and salinity stress tolerance in crop plants (for food supply) and in forest trees (a central component of the global ecosystem) should be given high research priority in plant biotechnology programs.

Plant responses to drought, salinity and extreme ...

However, the combined responses to drought and rewatering and its mechanism are relatively scant. As we known, plant growth, photosynthesis and stomatal aperture may be limited under water deficit, which would be regulated by physical and chemical signals. Under severe drought, while peroxidation may be provoked, the relevant antioxidant metabolism would be involved to annihilate the damage of reactive oxygen species.

Plant Responses to Drought and Rewatering

Many of the traits that explain plant adaptation to drought — such as phenology, root size and depth, hydraulic conductivity and the storage of reserves — are those associated with plant development and structure, and are constitutive rather than stress induced.

Understanding plant responses to drought — from genes to ...

Plants have evolved to respond and adapt properly to drought stress conditions through spatiotemporal and stepwise signals in tissues throughout the whole plant to acquire drought stress resistance. The phytohormone ABA regulates drought stress responses and resistance at the cellular and intercellular levels in plants.

Drought Stress Responses and Resistance in Plants: From ...

Molecular Mechanisms Regulating Plant's Response toward Drought Stress. The response of any crop to drought stress depends primarily on the growth stage and WUE (Pareek et al., 2010). For example, reproductive stage is considered critically susceptible to drought stress in various crops (Moumeni et al., 2015; Farooq et al.,

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2016). As sessile organisms, plants have evolved several defense mechanisms involving various molecular, physiological and biochemical alterations in response to low ...

Transcription Factors and Plants Response to Drought ...

1. Plant Signal Behav. 2010 Jun;5(6):649-54. Epub 2010 Jun 1. Plant responses to drought and rewatering. Xu Z(1), Zhou G, Shimizu H. Author information: (1)State Key Laboratory of Vegetation and Environmental Change, Institute of Botany, Chinese Academy of Science, Xiangshan, Haidian District, Beijing, PR China. xuzz@ibcas.ac.cn Plants would be more vulnerable to water stress and thereafter ...

Plant responses to drought and rewatering.

Drought affects plants wildly from their cell structure to growth. It causes higher plastoglobuli, lower starch grain, distortion of thylakoids, disrupted grana and swelling of chloroplast.

Plants' responses to drought and shade environments

The stressed plants exhibit striking responses by producing plant hormone abscisic acid (ABA), which plays an important role in tolerance against drought. Abscisic acid can induce the expression of stress relieving genes. More than half of the drought-inducible genes are also induced by abscisic acid.

Plant Responses to Drought Stress | Genetics

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Plant Responses to drought and Salinity stress ...

Reviews: The physiology of plant responses to drought, and forests and drought (\$) (Science) April 24, 2020 / in Plant Science Research Weekly / by Mary Williams The increasing global population causes an increasing need for food, but the changing climate means increasing drought occurrences.

Reviews: The physiology of plant responses to drought, and ...

· Physiological responses · Biochemical and molecular responses · Ecophysiological responses · Responses to drought under field conditions. The contributions will serve as an invaluable source of information for researchers and advanced students in the fields of plant sciences, agriculture, ecophysiology, biochemistry and molecular biology.

Plant Responses to Drought Stress: From Morphological to ...

Drought limits plant growth and development mainly due to photosynthetic decline, osmotic stress-imposed constraints on plant processes, and interference with nutrient availability [15]. Therefore, the osmotic stress and the associated oxidative stress appear to be common consequences of exposure to drought and salinity.

Identification and expression analysis of genes in ...

To evaluate the expression level of both Osgrx genes against drought stress, total

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RNA was isolated from the leaves of Arabidopsis plants of T 3 generation, treated and untreated wild-type control by using Spectrum plant total RNA kit (Sigma-Aldrich, USA). cDNA was synthesized from isolated total RNA by using the Enhanced Avian HS RT-PCR kit (Sigma-Aldrich, USA).

Overexpression of rice glutaredoxin genes LOC_Os02g40500 ...

By using different molecular and physiological approaches, we provide compelling evidence that, in Arabidopsis, SL acts as positive regulator of plant responses to drought and salt stress, which was associated with shoot- rather than root-related traits.

Positive regulatory role of strigolactone in plant ...

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