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### **Chilling Stress In Plants Ijagcs**

Many species of plants especially those native to tropical and subtropical regions are susceptible to chilling injury. For

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instance, exposure to a temperature of 1°C to 5°C for 24 to 36 hours is fatal or markedly injurious to crop plants such as rice, velvet beans, cotton and peanut, but less injurious to maize, tomatoes, sorghums and pumpkins.

### **Cold Injury and Cold Resistance in Plants**

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Overall, onset of either drought or chilling is injurious to plants, nevertheless, plant reproductive stage is perhaps the most sensitive stage to these stress factors than pre- and post-reproductive stages.

**Frontiers | Chilling and Drought Stresses in Crop Plants ...**

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Chilling stress is a key factor limiting plant survival and distribution on earth with preharvest and post-harvest damage caused by chilling stress resulting in enormous financial losses in agriculture every year.

### **ROS Signaling Pathways in Chilling Stress**

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EFFECTS OF CHILLING STRESS ON Seedling establishment and growth  
Chilling injury is a serious problem during germination and early seedling growth and the major cause of uneven emergence and poor stand establishment • Chilling may inhibit seed metabolic processes that are responsible for the breakdown of complex

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carbohydrates into simple sugars to support growth, such as germination • During seedling (autotrophic) stage, chilling causes photoinhibition, photosynthesis inhibition, and ...

**Chilling stress and its effect in plants - LinkedIn SlideShare**  
select the useful chloroplast: a new

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approach for investigating chilling stress in plants. book chapter full text access. the useful chloroplast: a new approach for investigating chilling stress in plants. robert m. smillie. pages 187-202. select low temperature response of chloroplast thylakoids.

### **Low Temperature Stress in Crop**

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## **Plants | ScienceDirect**

Between two individual stress factors, chilling-induced reductions in seedling length and biomass of maize cultivars were more compared with drought stress alone. Greater decrease in root length and biomass under chilling stress ultimately decreased the volume and surface area of the root system, and

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restricted the shoot growth.

## **Plants | Free Full-Text | Maize Tolerance against Drought ...**

ics of chilling stress in maize have been studied ex-tensively. This paper presents an overview of re-search into chilling stress in maize during the last 30 years, with emphasis on those areas which

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have been studied most extensively. The optimal temperature for root, shoot and leaf elongation in maize is 30 to 35°C; the minimum

### **CHILLING STRESS IN MAIZE - Semantic Scholar**

Egg deposition- and chilling-induced transcriptome states wear off with

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different pace after stimulus removal. The persistence of the transcriptomic responses to either chilling or egg deposition was examined after termination of exposure to the primary stimulus by removing the egg clusters or returning the plants to 20 °C, respectively.

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### **Pre-exposure of Arabidopsis to the abiotic or biotic ...**

Temperature stress in plants is classified into three types depending on the stressor, which may be high, chilling or freezing temperature. Temperature-stressed plants show low germination rates ...

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## **Temperature Stress in Plants - ResearchGate**

Continuous chilling of crop plants has been shown to result in increased reactive oxygen species (ROS) and cell membrane peroxidation and to affect the expression of chloroplast genes, inhibiting photosynthesis .

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### **Serine hydroxymethyltransferase localised in the ...**

tural symptoms of chilling stress, focusing on the factors involved in the development of chilling injury and continu-ing with a discussion of the possible physiological bases of the injury. In order to do so, care must be taken to avoid confusing chilling injury

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with changes in plant cells that occur as a result of adaptations to repeated episodes of

### **The ultrastructure of chilling stress**

Environmental stresses in plants rarely occur individually; chilling stress is no exception. There are many factors such as light intensity, relative humidity and

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the inherent sensitivity of the plant to chilling that interact and may either enhance the effect or act as protection against injury.

### **The ultrastructure of chilling stress - Kratsch - 2000 ...**

tures around +5°C and freezing stress when temperatures are below zero. As

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an adaptation to cold stress, plants have evolved multiple mechanisms for tolerance. These mechanisms can be mediated by a number of stress phytohormones and plant growth regulators, including ABA, JA, SA, ethylene.

### **EFFECT OF CHILLING AND FREEZING**

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### **STRESSES ON JASMONATE ...**

Organized into four parts, this edition first discusses the stress concepts, particularly the stress and strain terminologies, as well as the nature of stress injury and resistance. Stresses at chilling, freezing, and high-temperatures are addressed separately.

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### **Chilling, Freezing, and High Temperature Stresses ...**

If the temperature is too cold for the plant, it can lead to cold stress, also called chilling stress. Extreme forms of cold stress can lead to freezing stress. Cold temperatures can affect the amount and rate of uptake of water and nutrients, leading to cell desiccation and

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starvation.

## **Plant Stresses: Abiotic and Biotic Stresses - ThoughtCo**

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A chiller plant is a centralized system that cools the air for a building or for a collection of buildings and provides the air-conditioning portion of HVAC systems. According to the federal government's Energy Star website, over 35 percent of buildings larger than 100,000 square feet contain chiller plants.

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## **What Is a Chiller Plant? | eHow**

Chickpea is sensitive to low temperature stress, especially during germination and stand establishment. Present study was planned to rescue the chickpea seedlings from chilling stress through seed priming with gibberellic acid. A study comprising of two chickpea

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cultivars (cv.) viz. Çağatay (a chilling tolerant cultivar: CTC) and Akçin (a chilling sensitive cultivar: CSC) in combination ...

### **Seed priming with gibberellic acid rescues chickpea ...**

The evaluation of chilling injury of young cotyledons among 74 cotton varieties

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revealed that H559 was the most tolerant and YM21 was the most sensitive. The physiological analysis found that the ROS scavenging ability was lower, and cell membrane damage was more severe in the cotyledons of YM21 than that of H559 under chilling stress.

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