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genetic and physiological bases of stress response and stress tolerance as part of crop improvement programs 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 l

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Through Breeding and Molecular  
Approaches: NHBS - Edited By: M Ashraf  
and PJC Harris, Food Products Press

**Abiotic Stresses: Plant Resistance  
Through Breeding and ...**

Plant breeding is seen as an attractive approach to the problem of abiotic stress because it is seen as an efficient and economic means to increase crop yield. It also has the potential to increase productivity by extending growing seasons, allowing marginal land to be brought into cultivation, and allowing more productive crops to be chosen for difficult environments.

**Abiotic stresses: plant resistance  
through breeding and ...**

Chapter 1. Stress Environments and

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Through Breeding And Molecular Approaches Crop Science  
Their Impact on Crop Production (Shafiqur-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 ...**

Get this from a library! Abiotic stresses : plant resistance through breeding and molecular approaches. [M Ashraf; P J C Harris;] -- 'Abiotic Stress' explores innovative methods of breeding new varieties of major crops with resistance to environmental stresses that limit crop production worldwide, such as drought, salinity, ...

## **Abiotic stresses : plant resistance through breeding and ...**

A. Wijerathna-Yapa: Transgenic plants: resistance to abiotic and biotic stresses 270 Journal of Agriculture and

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Environment for International Development - JAEID - 2017 , 111 (1)

## **Transgenic plants: resistance to abiotic and biotic stresses**

Abiotic stresses, especially hypersalinity and drought, are the primary causes of crop loss worldwide. In contrast to plant resistance to biotic stresses, which mostly depends on monogenic traits, the genetically complex responses to abiotic stresses are multigenic and thus more difficult to identify, control, and manipulate.

## **Abiotic Stress - an overview | ScienceDirect Topics**

The present chapter focuses on understanding the different responses of the plants involved in abiotic stress adaptation and strategies employed to date for achieving stress resistance in plants. Exposure to abiotic stresses has become a major threatening factor that hurdles the sustainable growth in agriculture for fulfilling the growing food

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### **Abiotic Stress Responses in Plants: Current Knowledge 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.

### **Abiotic Stresses: Plant Resistance Through Breeding 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.

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

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International Journal of Molecular Sciences Article Maize microRNA166 Inactivation Confers Plant Development and Abiotic Stress Resistance Na Li 1,y, Tianxiao Yang 1,2,y, Zhanyong Guo 1, Qiusheng Wang 1, Mao Chai 1, Mingbo Wu 1, Xiaoqi Li 1, Weiya Li 1, Guangxian Li 1, Jihua Tang 1, Guiliang Tang 3,\* and Zhanhui Zhang 1,\* 1 National Key Laboratory of Wheat and Maize Crop Science ...

## **Maize microRNA166 Inactivation Confers Plant Development ...**

Abiotic stresses, such as low or high temperature, deficient or excessive water, high salinity, heavy metals, and ultraviolet radiation, are hostile to plant growth and development, leading to great crop yield penalty worldwide.

## **Abiotic Stresses: General Defenses of Land Plants and ...**

Plants, as sessile organisms, survive environmental changes by prioritizing their responses to the most life-



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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 ...**

Plant hormones, such as ABA and auxin, regulate many aspects of plant development and stress response. In Arabidopsis, miR165/166 was suggested to confer multiple abiotic stress resistance through an ABA-dependent pathway [25,31]. Of which, miR165/166 triggers the ABA homeostasis through the regulation of its targets and BG1 expression levels.

## **Maize microRNA166 Inactivation Confers Plant Development ...**

abiotic stress (mostly drought and salinity) affecting pathogen resistance, which is indicative of interaction between abiotic and biotic stress. There

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are reports of disease resistance attenuation by high humidity and high temperature (Wang et al., 2005, 2009). In most cases, abiotic stress predisposes plants to subse-

## **Enhancing crop resilience to combined abiotic and biotic ...**

Plants are exposed to conflicting stresses simultaneously in nature. As stress responses are costly, plants likely coordinate these responses to minimize fitness costs. The nature and extent to which plants employ inducible mechanisms to cope with combined physical and biological stresses remains unknown. We identify a genetic mechanism by which leaves of distinct ages differentially control ...

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