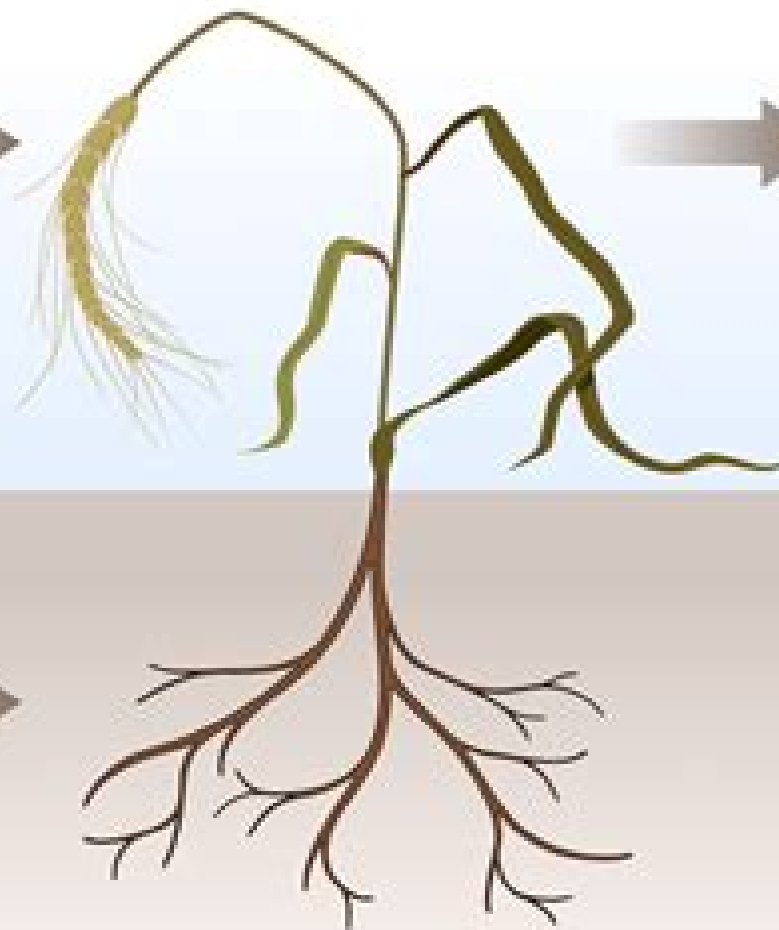


Abiotic stresses



Stress responses



Plant Abiotic Stress

Tariq Aftab, Khalid Rehman Hakeem



Plant Abiotic Stress:

Abiotic Stress Response in Plants Arun Shanker, B. Venkateswarlu, 2011-08-29 Plants unlike animals are sessile. This demands that adverse changes in their environment are quickly recognized, distinguished, and responded to with suitable reactions. 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. To cope with abiotic stresses of paramount significance is to understand plant responses to abiotic stresses that disturb the homeostatic equilibrium at cellular and molecular level in order to identify a common mechanism for multiple stress tolerance. This multi-authored, edited compilation attempts to put forth an all-inclusive biochemical and molecular picture in a systems approach wherein mechanism and adaptation aspects of abiotic stress are dealt with. The chief objective of the book hence is to deliver state-of-the-art information for comprehending the effects of abiotic stress in plants at the cellular level. Plant Abiotic Stress Tolerance Mirza Hasanuzzaman, Khalid Rehman Hakeem, Kamrun Nahar, Hesham F. Alharby, 2019-04-04 Plants have to manage a series of environmental stresses throughout their entire lifespan. Among these, abiotic stress is the most detrimental one that is responsible for nearly 50% of crop yield reduction and appears to be a potential threat to global food security in coming decades. Plant growth and development reduces drastically due to adverse effects of abiotic stresses. It has been estimated that crops can exhibit only 30% of their genetic potentiality under abiotic stress conditions. So this is a fundamental need to understand the stress responses to facilitate breeders to develop stress-resistant and stress-tolerant cultivars along with good management practices to withstand abiotic stresses. Also, a holistic approach to understanding the molecular and biochemical interactions of plants is important to implement the knowledge of resistance mechanisms under abiotic stresses. Agronomic practices like selecting cultivars that are tolerant to a wide range of climatic conditions, planting date, irrigation scheduling, fertilizer management could be some of the effective short-term adaptive tools to fight against abiotic stresses. In addition, system biology and omics approaches in recent studies offer a long-term opportunity at the molecular level in dealing with abiotic stresses. The genetic approach, for example, selection and identification of major conditioning genes by linkage mapping and quantitative trait loci (QTL) production of mutant genes and transgenic introduction of novel genes has imparted some tolerant characteristics in crop varieties from their wild ancestors. Recently, research has revealed the interactions between microRNAs (miRNAs) and plant stress responses exposed to salinity, freezing stress, and dehydration. Accordingly, transgenic approaches to generate stress-tolerant plants are one of the most interesting researches to date. This book presents the recent development of agronomic and molecular approaches in conferring plant abiotic stress tolerance in an organized way. The present volume will be of great interest among research students and teaching community and can

also be used as reference material by professional researchers

Improving Abiotic Stress Tolerance in Plants M. Iqbal R. Khan, Amarjeet Singh, Péter Poór, 2020-05-13 Abiotic stresses such as drought flooding high or low temperatures metal toxicity and salinity can hamper plant growth and development Improving Abiotic Stress Tolerance in Plants explains the physiological and molecular mechanisms plants naturally exhibit to withstand abiotic stresses and outlines the potential approaches to enhance plant abiotic stress tolerance to extreme conditions Synthesising developments in plant stress biology the book offers strategies that can be used in breeding genomic molecular physiological and biotechnological approaches that hold the potential to develop resilient plants and improve crop productivity worldwide Features Comprehensively explains molecular and physiological mechanism of multiple abiotic stress tolerance in plants Discusses recent advancements in crop abiotic stress tolerance mechanism and highlights strategies to develop abiotic stress tolerant genotypes for sustainability Stimulates synthesis of information for plant stress biology for biotechnological applications Presents essential information for large scale breeding and agricultural biotechnological programs for crop improvement Written by a team of expert scientists this book benefits researchers in the field of plant stress biology and is essential reading for graduate students and researchers generating stress tolerant crops through genetic engineering and plant breeding It appeals to individuals developing sustainable agriculture through physiological and biotechnological applications

Abiotic Stress in Plants Arun Shanker, B. Venkateswarlu, 2011-09-22 World population is growing at an alarming rate and is anticipated to reach about six billion by the end of year 2050 On the other hand agricultural productivity is not increasing at a required rate to keep up with the food demand The reasons for this are water shortages depleting soil fertility and mainly various abiotic stresses The fast pace at which developments and novel findings that are recently taking place in the cutting edge areas of molecular biology and basic genetics have reinforced and augmented the efficiency of science outputs in dealing with plant abiotic stresses In depth understanding of the stresses and their effects on plants is of paramount importance to evolve effective strategies to counter them This book is broadly divided into sections on the stresses their mechanisms and tolerance genetics and adaptation and focuses on the mechanistic aspects in addition to touching some adaptation features The chief objective of the book hence is to deliver state of the art information for comprehending the nature of abiotic stress in plants We attempted here to present a judicious mixture of outlooks in order to interest workers in all areas of plant sciences

Plant Abiotic Stress Matthew A. Jenks, Paul M. Hasegawa, 2008-04-15 Over the past decade our understanding of plant adaptation to environmental stress has grown considerably This book focuses on stress caused by the inanimate components of the environment associated with climatic edaphic and physiographic factors that substantially limit plant growth and survival Categorically these are abiotic stresses which include drought salinity non optimal temperatures and poor soil nutrition Another stress herbicides is covered in this book to highlight how plants are impacted by abiotic stress originating from anthropogenic sources The book also addresses the high degree to which plant responses to quite diverse forms of

environmental stress are interconnected describing the ways in which the plant utilizes and integrates many common signals and subsequent pathways to cope with less favorable conditions The book is directed at researchers and professionals in plant physiology cell biology and molecular biology in both the academic and industrial sectors **Abiotic**

Stress-Mediated Sensing and Signaling in Plants: An Omics Perspective Sajad Majeed Zargar, Mohammad Yousuf Zargar, 2018-02-20 The natural environment for plants is composed of a complex set of abiotic and biotic stresses plant responses to these stresses are equally complex Systems biology allows us to identify regulatory hubs in complex networks It also examines the molecular parts transcripts proteins and metabolites of an organism and attempts to combine them into functional networks or models that effectively describe and predict the dynamic activities of that organism in different environments This book focuses on research advances regarding plant responses to abiotic stresses from the physiological level to the molecular level It highlights new insights gained from the integration of omics datasets and identifies remaining gaps in our knowledge outlining additional focus areas for future crop improvement research Plants have evolved a wide range of mechanisms for coping with various abiotic stresses In many crop plants the molecular mechanisms involved in a single type of stress tolerance have since been identified however in order to arrive at a holistic understanding of major and common events concerning abiotic stresses the signaling pathways involved must also be elucidated To date several molecules like transcription factors and kinases have been identified as promising candidates that are involved in crosstalk between stress signalling pathways However there is a need to better understand the tolerance mechanisms for different abiotic stresses by thoroughly grasping the signalling and sensing mechanisms involved Accordingly this book covers a range of topics including the impacts of different abiotic stresses on plants the molecular mechanisms leading to tolerance for different abiotic stresses signaling cascades revealing cross talk among various abiotic stresses and elucidation of major candidate molecules that may provide abiotic stress tolerance in plants **Plant Abiotic Stress Physiology** Tariq

Aftab, Khalid Rehman Hakeem, 2022-02-16 This two volume set highlights the various innovative and emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology Volume 1 Responses and Adaptations focuses on the responses and adaptations of plants to stress factors at the cellular and molecular levels and offers a variety of advanced management strategies and technologies Volume 2 Molecular Advancements introduces a range of state of the art molecular advances for the mitigation of abiotic stress in plants With contributions from specialists in the field Volume 1 first discusses the physiology and defense mechanisms of plants and the various kinds of stress such as from challenging environments climate change and nutritional deficiencies It goes on to discuss trailblazing management techniques that include genetics approaches for improving abiotic stress tolerance in crop plants along with CRISPR CAS mediated genome editing technologies Volume 2 discusses how plants have developed diverse physiological and molecular adjustments to safeguard themselves under challenging conditions and how emerging new technologies can utilize these

plant adaptations to enhance plant resistance These include using plant environment interactions to develop crop species that are resilient to climate change applying genomics and phenomics approaches from the study of abiotic stress tolerance and more Agriculture today faces countless challenges to meet the rising need for sustainable food supplies and guarantees of high quality nourishment for a quickly increasing population To ensure sufficient food production it is necessary to address the difficult environmental circumstances that are causing cellular oxidative stress in plants due to abiotic factors which play a defining role in shaping yield of crop plants These two volumes help to meet these challenges by providing a rich source of information on plant abiotic stress physiology and effective management techniques

Genes for Plant Abiotic Stress

Matthew A. Jenks, Andrew J. Wood, 2009-09-17 Abiotic stresses caused by drought salinity toxic metals temperature extremes and nutrient poor soils are among the major constraints to plant growth and crop production worldwide While crop breeding strategies to improve yields have progressed a better understanding of the genetic and biological mechanisms underpinning stress adaptation is needed Genes For Plant Abiotic Stress presents the latest research on recently examined genes and alleles and guides discussion of the genetic and physiological determinants that will be important for crop improvement in the future

Abiotic Stress Tolerance Mechanisms in Plants

Gyanendra Kumar Rai, Ranjeet Ranjan Kumar, Sreshti Bagati, 2021-02-14 Since recent years the population across the globe is increasing expeditiously hence increasing the agricultural productivity to meet the food demands of the thriving population becomes a challenging task Abiotic stresses pose as a major threat to agricultural productivity Having an adequate knowledge and apprehension of the physiology and molecular biology of stress tolerance in plants is a prerequisite for counteracting the adverse effect of such stresses to a wider range This book deals with the responses and tolerance mechanisms of plants towards various abiotic stresses The advent of molecular biology and biotechnology has shifted the interest of researchers towards unraveling the genes involved in stress tolerance More effort is being made to understand and pave ways for developing stress tolerance mechanisms in crop plants Several technologies including Microarray technology functional genomics on gel and off gel proteomic approaches have proved to be of utmost importance by helping the physiologists molecular biologists and biotechnologists in identifying and exploiting various stress tolerance genes and factors for enhancing stress tolerance in plants This book would serve as an exemplary source of scientific information pertaining to abiotic stress responses and tolerance mechanisms towards various abiotic stresses Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka

Plant, Abiotic Stress and Responses to Climate Change

Violeta Andjelkovic, 2018-05-23 Climate change is a serious problem influencing agricultural production worldwide and challenging researchers to investigate plant responses and to breed crops for the changed growing conditions Abiotic stresses are the most important for crop production affecting about 96.5% of arable land worldwide These stress factors include high and low temperature water deficit drought and flooding salinity heavy metals UV radiation light chemical pollutants and so on Since some of the stresses occurred

simultaneously such as heat and water deficit causing the interactions of physiological processes novel multidisciplinary solutions are needed This book provides an overview of the present state in the research of abiotic stresses and molecular biochemical and whole plant responses helping to prevent the negative impact of global climate change

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