Where To Download Abiotic Stress Tolerance In Crop Plants Breeding and Biotechnology

Approaches for Enhancing Stress Tolerance in Plants and Crop Plants Breeding and Biotechnology: A Review. This book covers various aspects of stress tolerance in plants, including the molecular mechanisms of stress tolerance, stress signaling, and stress response strategies. It also provides an overview of different breeding strategies for improving stress tolerance in crops. The book includes chapters on the role of genetics, genomics, and proteomics in stress tolerance and discusses the use of molecular markers and transgenic technologies to enhance stress tolerance in crops.

Plant Abiotic Stress Tolerance: Challenges and Opportunities. This book provides an overview of the challenges and opportunities in the field of abiotic stress tolerance in plants, including the molecular mechanisms of stress tolerance, stress signaling, and stress response strategies. It also discusses the use of molecular markers and transgenic technologies to enhance stress tolerance in crops.


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Advances in Research for Abiotic Stress Tolerance. This book provides an overview of the challenges and opportunities in the field of abiotic stress tolerance in plants, including the molecular mechanisms of stress tolerance, stress signaling, and stress response strategies. It also discusses the use of molecular markers and transgenic technologies to enhance stress tolerance in crops.

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Abiotic Stress Tolerance in Crop Plants

The impact of global climate change on crop production has emerged as a major research priority during the past decade. Understanding abiotic stress factors such as temperature and drought tolerance and the underlying biochemical, physiological and molecular mechanisms is crucial for developing stress resistant and stress tolerant crop cultivars. The book provides a comprehensive overview of the latest research advances in crop abiotic stress adaptation, with detailed discussions of the basic as well as applied research outlooks so as to interest workers in all areas of plant science. We trust that the content of this book will benefit 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 Tolerance in Crop Plants

The book highlights some of the most important biophysical, physiological and biochemical aspects of stress tolerance in crop plants, with a focus on the latest updates. It is divided into chapters written by experts from around the globe and covering the effects of stress on plants (stress and abiotic stress) and the approaches to assess plant stress tolerance in terms of abiotic stresses affecting crops. The book provides a comprehensive overview of the latest research advances in crop abiotic stress adaptation, with detailed discussions of the basic as well as applied research outlooks so as to interest workers in all areas of plant science. We trust that the content of this book will benefit 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.

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Plant Nutrition and Abiotic Stress Tolerance: Environmental insults such as extremes of temperature, extremes of water status as well as deteriorating soil conditions pose major threats to agriculture and food security. Employing contemporary tools and techniques from all branches of science, attempts are being made worldwide to understand how plants respond to abiotic stresses with the aim to help manipulate plant performance that will be better suited to withstand these stresses. This book and abiotic stress attempts to search for possible answers to several basic questions related to plant responses towards abiotic stresses. Presented in this book is a holistic view of the general principles of stress perception, signal transduction and regulation of gene expression. Further, chapters analyze not only model systems but also practical interpretations obtained from models in crops. Lastly, discuss how stress-tolerant crop or model plants have been or are being bred through plant breeding and genetic engineering approaches. Twenty three chapters, written by international authorities, integrate molecular details with overall plant structure and physiology, in a text-book style, including key references.

Climate Change and Plant Abiotic Stress Tolerance: Environmental stresses, such as heavy metals, drought, radiation, salts, pesticides, temperature, etc. are major factors collectively called abiotic stresses, which limit agricultural productivity. Abiotic stress factors negatively influence the survival, biomass production, and yield of staple food crops of up to 70%. In recent years, much attention has been given for developing strategies to alleviate the adverse effects of abiotic stresses on crops in order to fulfill the food demand of increasing population. Chemical application and agronomic crop management practices have been used to alleviate abiotic stresses with some success. During the last decade, extensive work has been carried out to understand plant hormone-mediated enhancement in abiotic stress tolerance using physiological, biochemical, genetic, molecular, and genomic approaches for crop breeding and management. This book has compiled recent research on plant hormone mediated regulation of abiotic stress tolerance in plants with special emphasis on crops. This book consists of fourteen chapters dealing with recent research made in the direction of plant hormone and abiotic stress tolerance in crop plants. Chapter One deals with abiotic stress and crop productivity. Chapters Two and Three deal with the role of polyamines, 80%, and salicylates in the regulation of abiotic stress. Chapter Four extensively elaborates the significance of the multiple family to the improvement of crops under stress conditions. Chapter Five and Six dealt with the interaction of plant hormones and their subsequent impact on plant abiotic stress tolerance. Chapter Seven, Eight and Nine comprehensively dealt with the role of abiotic stress and gibberellic acid signaling in the regulation of abiotic stress tolerance in crops. Chapters Ten through Thirteen describe the role of brassinosteroids cross talk, interaction and signaling in the regulation of abiotic stress tolerance in crops. Chapter Fourteen deals with the emerging role of oxylipins in the regulation of abiotic stress in crops. Chapter Fifteen deals with the role of jasmonic acid and salicylic acid signaling in the regulation of abiotic stress tolerance. This book has gathered recent information of plant hormone research and abiotic stress tolerance in crops. We hope that this book will be very useful for graduate and post graduate students and researchers.

Advances in Plant Breeding Strategies: Agronomic, Abiotic and Biotic Stress Tapes A guide to the chemical agents that protect plants from various environmental stressors. Protective Chemical Agents in the Amelioration of Plant Abiotic Stresses offers a guide to the abiotic chemical agents that have the potential to mitigate different forms of abiotic stresses in plants. Edited by two experts on the topic, the book explores the role of novel chemicals and shows how using such unique chemical agents can tackle the adverse damages caused by environmental stressors. Exposure application of different chemical agents or chemical priming of seeds presents opportunities for crop stress management. The use of chemical compounds as protective agents has been found to improve plant tolerance significantly in various crop and non-crop species against a range of different individually applied abiotic stresses by regulating the endogenous levels of the protective agents within plants. This important book: Explores the efficacy of various chemical agents to eliminate abiotic stress Offers a groundbreaking look at the topic and reviews the most recent advances in the field Includes information from noted authorities on the subject Presents information on abiotic stress management with special emphasis on crops. Written for researchers, academicians, and scientists, Protective Chemical Agents in the Amelioration of Plant Abiotic Stresses details the wide range of protective chemical agents, their applications, and their intrinsic biochemical and molecular mechanism of action within the plant systems during adverse situations.

Plant Breeding for Abiotic Stress Tolerance: A better understanding of the genetic and physiological bases of stress response and stress tolerance as part of crop improvement programs. Abiotic Stress: Plant Resistance Through Breeding and Molecular Approaches explores innovative methods of breeding new varieties of major crops with resistance to environmental stress that limit crop production worldwide. Experts provide you with basic principles and techniques of plant breeding as well as work done in relation to improving resistance in specific important world food crops. This book supplies extensive bibliographies at the end of each chapter, as well as tables and figures that illustrate the research findings. Abiotic Stress is divided into two sections. In the first section, you will find the general principles of breeding crops for stress resistance genetic engineering and molecular biology procedures for crop improvement for stress environments data on genome mapping and its implications for improving stress resistance in plants. A section on breeding for resistance/tolerance to salinity, drought, flooding, metals, low nutrient availability, high/low temperatures. The second section of this timely resource focuses on the efforts of acknowledged specialists who concentrated their efforts on important individual crops, such as, wheat, barley rice maize allowed crops cotton tobacco. This book fills a niche in the available literature as it deals with all of the major stresses from a perspective of crop breeding, covering the latest advances in molecular breeding technology. Abiotic Stress will help scientists and academicians in botany, plant breeding, plant environmental stress studies, agriculture, and horticulture modify and improve breeding programs globally.

Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality: The basic concept of this book is to examine the use of innovative methods augmenting traditional plant breeding towards the development of new crop varieties under different environmental conditions to achieve sustainable food production. This book consists of two volumes: Volume One dedicated Breeding, Biotechnology and Molecular Tools and Volume Two dedicated Agronomic, Abiotic and Biotic Stress Traits. This is a volume which contains 16 chapters highlighting breeding strategies for specific plant traits including improved nutritional and pharmaceutical properties as well as enhanced tolerance to insects, diseases, drought, salinity and temperature extremes expected under predicted global climate change. Copyright code : f9882a56-7624-11df-b59d-a553b6d342ab Page 3/3