

Dr. Subhadeva Das
Assistant Professor
Department of Horticulture
College of Agriculture, TNAU

Abiotic Stress Physiology of Horticultural Crops

Dr. Subhadeva Das

Library Of Abiotic Stress Physiology Horticultural Crops

Gyana Ranjan Rout, K.V. Peter



Library Of Abiotic Stress Physiology Horticultural Crops:

Abiotic Stress Physiology of Horticultural Crops N.K. Srinivasa Rao,K.S. Shivashankara,R.H. Laxman,2016-04-08

This book brings together recent advances in the area of abiotic stress tolerance in various vegetables fruit crops plantation crops and tuber crops The main challenges to improving the productivity of horticultural crops are the different types of abiotic stresses generally caused by climate change at the regional and global level Heat drought cold and salinity are the major abiotic stresses that adversely affect growth and productivity and can trigger a series of morphological physiological biochemical and molecular changes in various horticultural crops To date there are no books covering horticultural crop specific abiotic stress tolerance mechanisms and their management Addressing that gap the book is divided into 2 sections the first of which highlights recent advances in the general aspects of abiotic stress tolerance like the role of hormones reactive oxygen species seed treatments molecular mechanisms of heat tolerance and heavy metal toxicity while the second focuses on the abiotic stress tolerance mechanisms of various vegetables fruit crops plantation crops and tuber crops It includes comprehensive discussions of fruit crops like mango grapes banana litchi and arid zone fruits vegetables crops like tomato capsicum onion and tuber crops and plantation crops like coconut areca nut oil palm and black pepper Among the strategies for plant stress survival examples of both avoidance and tolerance relevant to particular crops are examined in detail supported by selected comprehensive case studies of progress As such the book offers a valuable resource suited for scientists and graduate students working in the fields of crop improvement genetic engineering and the abiotic stress tolerance of horticultural crops

Abiotic and Biotic Stress in Horticultural Crops: Insight into Recent Advances in the Underlying Tolerance Mechanism Milan Kumar Lal,Rahul Kumar Tiwari,Muhammad Ahsan Altaf,Awadhesh Kumar,Ravinder Kumar,2023-06-21

Physiological and Molecular Characterization of Crop Resistance to Abiotic Stresses Monica Boscaiu,Ana Fita,2020-12-02 Abiotic stress represents the main constraint for agriculture affecting plant growth and productivity worldwide Yield losses in agriculture will be potentiated in the future by global warming increasing contamination and reduced availability of fertile land The challenge for agriculture of the present and future is that of increasing the food supply for a continuously growing human population under environmental conditions that are deteriorating in many areas of the world Minimizing the effects of diverse types of abiotic stresses represents a matter of general concern Research on all topics related to abiotic stress tolerance from understanding the stress response mechanisms of plants to developing cultivars and crops tolerant to stress is a priority This Special Issue is focused on the physiological and molecular characterization of crop resistance to abiotic stresses including novel research reviews and opinion articles covering all aspects of the responses and mechanisms of plant tolerance to abiotic Contributions on physiological biochemical and molecular studies of crop responses to abiotic stresses the description and role of stress responsive genes marker assisted screening of stress tolerant genotypes genetic engineering and other biotechnological

approaches to improve crop tolerance were considered

Legumes: Physiology and Molecular Biology of Abiotic Stress Tolerance Prakash Muthu Arjuna Samy, Anandan Ramasamy, Viswanathan Chinnusamy, B. Sunil Kumar, 2023-02-02 This edited volume provides state of the art overview of abiotic stress responses and tolerance mechanisms of different legume crops viz chickpea mung bean lentil black gram cowpea cluster bean soybean and groundnut Legumes play an important role in human nutrition and soil health through fixation of nitrogen Legume production and productivity are vulnerable to different abiotic stresses A proper understanding about the physiological and molecular basis of the legume crops is essential for genetic improvement of abiotic stress tolerance This book consists of 15 chapters covering physiological and biochemical basis molecular physiology molecular breeding genetics genomics transgenics epigenetics of drought saline high temperature and nutrient deficiency stresses and the role of microRNAs in abiotic stress tolerance This volume offers new perspectives in legume crop abiotic stress management and is useful for various stakeholders including post graduates students scientists environmentalists and policymakers

Omics in Horticultural Crops Gyana Ranjan Rout, K.V. Peter, 2022-07-16 Omics in Horticulture Crops presents a comprehensive view of germplasm diversity genetic evolution genomics proteomics and transcriptomics of fruit crops temperate tropical and subtropical fruits fruit nuts berries vegetables tuberous crops ornamental and floricultural crops and medicinal aromatic plants Information covering phenomics genetic diversity phylogenetic studies genome sequencing and genome barcoding through the utilization of molecular markers plays an imperative role in the characterization and effective utilization of diverse germplasm are included in the book This is a valuable reference for researchers and academics seeking to improve cultivar productivity through enhanced genetic diversity while also retaining optimal traits and protecting the growing environment Highlights perspectives progress and promises of omics application Provides a systematic overview of origin progenitor and domestication process as well as genetic insights Includes full range of horticultural crops

Novel Approach to Sustainable Temperate Horticulture Gulzar Ahmad Nayik, Sajad H. Wani, Vajahat Khursheed, Mohammad Javed Ansari, 2024-08-27 In the current scenario marked by a continual improvement in living standards it becomes imperative to boost the productivity as well as the efficiency of agriculture especially horticulture which holds the potential for significant economic prosperity aligning with Sustainable Development Goal number 8 Decent Work and Economic Growth Modern technological interventions such as geospatial technology and geographic information system GIS technology can be harnessed to yield effective results in addressing challenges and providing enhanced decision support particularly in the planning of horticultural resource management Cultivation and production of fresh produce face several challenges including prolonged juvenile phases and reproductive cycles with extended breeding periods creating bottlenecks in the process The evolving trends in biotechnology offer promising solutions for improving the selection of desirable traits Biotechnological techniques aimed at improving fruit efficiency encompass tissue culture induction of genetic variability germplasm conservation and molecular breeding

genomics These methods involve the study of genetic diversity DNA fingerprinting and Quantitative Trait Loci QTL analysis for marker assisted selection Over the past few decades the global population has consistently risen raising concerns about the ability of the current food system to adequately feed the anticipated 10 billion people in the next 30 years While this challenge is deemed achievable certain changes in both food production and consumption systems are essential to ensure sustainability reduce food loss and waste and contribute to a global shift toward healthier and more sustainable diets Implementing sustainable models of crop production represents a significant undertaking To address the growing food demand amid deteriorating production environments there is a need for promising technologies and effective management options to enhance productivity This book is poised to be a valuable resource for horticultural scientists operating in universities government agencies and research centers offering insights into achieving sustainable cultivation practices for fruits It stands out as the first of its kind providing in depth knowledge on environmentally friendly methods for cultivating temperate fruit crops to reduce harmful emissions and pollution This book will delve into the application of geographic information system GIS for estimating horticulture area expansion and crop yield Additionally it will encompass recent biotechnological interventions in horticulture circular agriculture models and emerging non thermal food preservation techniques as significant components Features Aims to provide a comprehensive and integrated overview of current technological statistical techniques employed in horticulture delving into the associated livelihood benefits derived from the practice Explores the novel geographical trends to identify the site suitability indices of several temperate fruits Offers a comprehensive and integrated exploration of recent trends in biotechnological approaches aimed at enhancing food production quality and safety

Abiotic Stress Physiology of Horticultural Crops N.K. Srinivasa Rao,K.S.

Shivashankara,R.H. Laxman,2016-04-18 This book brings together recent advances in the area of abiotic stress tolerance in various vegetables fruit crops plantation crops and tuber crops The main challenges to improving the productivity of horticultural crops are the different types of abiotic stresses generally caused by climate change at the regional and global level Heat drought cold and salinity are the major abiotic stresses that adversely affect growth and productivity and can trigger a series of morphological physiological biochemical and molecular changes in various horticultural crops To date there are no books covering horticultural crop specific abiotic stress tolerance mechanisms and their management Addressing that gap the book is divided into 2 sections the first of which highlights recent advances in the general aspects of abiotic stress tolerance like the role of hormones reactive oxygen species seed treatments molecular mechanisms of heat tolerance and heavy metal toxicity while the second focuses on the abiotic stress tolerance mechanisms of various vegetables fruit crops plantation crops and tuber crops It includes comprehensive discussions of fruit crops like mango grapes banana litchi and arid zone fruits vegetables crops like tomato capsicum onion and tuber crops and plantation crops like coconut areca nut oil palm and black pepper Among the strategies for plant stress survival examples of both avoidance and tolerance

relevant to particular crops are examined in detail supported by selected comprehensive case studies of progress As such the book offers a valuable resource suited for scientists and graduate students working in the fields of crop improvement genetic engineering and the abiotic stress tolerance of horticultural crops

Genomic Designing for Abiotic Stress Resistant Vegetable Crops Chittaranjan Kole, 2022-08-21 This book presents deliberations on molecular and genomic mechanisms underlying the interactions of crop plants to the abiotic stresses caused by heat cold drought flooding submergence salinity acidity etc important to develop resistant crop varieties Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding transgenics genomic assisted breeding and the recently emerging genome editing for developing resistant varieties in vegetable crops is imperative for addressing FHNEE food health nutrition energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing has provided precise information regarding the genes conferring resistance useful for gene discovery allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to abiotic stresses The nine chapters each dedicated to a vegetable crop or crop group in this volume elucidate on different types of abiotic stresses and their effects on and interaction with the crop enumerate on the available genetic diversity with regard to abiotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer present brief on classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts depict the success stories of genetic engineering for developing abiotic stress resistant crop varieties discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker assisted introgression into elite varieties enunciate on different genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing adaptive crop varieties with higher quantity and quality of yields and also elaborate some case studies on genome editing focusing on specific genes for generating abiotic stress resistant crops

Oilseed Crops Under Abiotic Stress Arafat Abdel Hamed Abdel Latef, 2025-07-18 This book discusses the physiological biochemical and molecular strategies employed by oilseed crops to alleviate the effects of abiotic stress It also covers the positive role of exogenous stimulants in enhancing oilseed crop production under these conditions Strategies for improving tolerance in oilseed crops to various abiotic stressors including salinity drought waterlogging flooding extreme temperatures nutrient deficiency heavy metal toxicity and UV radiation are discussed in detail Additionally the book includes a section on omics approaches and nanotechnological strategies for building resilience Focusing on oilseed crops under abiotic stress this book provides new and updated information for plant scientists researchers and scholars Covering various stress related topics it is a unique and valuable resource

Quality of Horticultural Crops: A Recurrent/New Challenge for Plant Scientists in a Changing World Nadia Bertin, Michel Génard, Maarten Hertog, 2018-10-11 Besides increasing crop yield to feed the growing population improving crop quality is a challenging and key issue Indeed quality determines consumer acceptability and increases the

attractivity of fresh and processed products In this respect fruit and vegetables which represent a main source of vitamins and other health compounds play a major role in human diet This is the case in developing countries where populations are prone to nutritional deficiencies but this is also a pending issue worldwide where the growing middle class is increasingly aware and in search of healthy food So a future challenge for the global horticultural industry will be to answer the demand for better quality food in a changing environment where many resources will be limited This e collection collates state of the art research on the quality of horticultural crops covering the underlying physiological processes the genetic and environmental controls during plant and organ development and the postharvest evolution of quality during storage and processing

Multi-omics and Computational Biology in Horticultural Plants: From Genotype to Phenotype, Volume II Yunpeng Cao,Hui Song,Muhammad Abdullah,Xiaoxu Li,Muhammad Aamir Manzoor,2024-02-13 This Research Topic is part of the article collection series Multi omics and Computational Biology in Horticultural Plants From Genotype to Phenotype Horticultural plants play an important role for humans by providing herbal medicines beverages vegetables fruits and ornamentals High throughput technologies have revolutionised the time scale and power of detecting insights into physiological changes and biological mechanisms in plants All sequencing data and tools have helped us better understand the evolutionary histories of horticultural plants and provide genotype and phenotype resources for molecular studies on economically important traits The integration of these omics technologies e g genomics transcriptomics proteomics metabolomics lipidomics ionomics and redoxomics is currently at the forefront of plant research The genomes of horticultural plants are highly diverse and complex often with a high degree of heterozygosity and polyploidy Novel computational methods need to be developed to take advantage of state of the art genomic technologies As a result the mining of multi omics data and the development of new computational biology approaches for the reliable and efficient analysis of plant traits is necessary

Molecular and Biotechnological Tools for Plant Disease Management Jen-Tsung Chen,Masudulla Khan,Aiman Parveen,Jayanta Kumar Patra,2024-12-10 This book aims to present the latest advances in the application of plant biotechnology and molecular biology in disease management Among these molecular techniques can be used to accelerate the detection and identification of pests and pathogens in plants Also the identification of resistance genes characterization of desired resistance genes and transfer of resistance gene s into plants have been performed by applying molecular techniques The book will collect chapters exploring emerging areas of plant biotechnology including RNAi technology genetic engineering GWAS CRISPR and nanobiotechnology and their applications in plant disease management and provides the latest concepts and advances in the field of plant pathology including detection identification characterization classification and diagnosis host resistance disease forecasting management of plant pests and pathogens and plant biotechnological approaches This book offers a valuable reference for educators students and researchers in all disciplines of the agricultural sciences life sciences and biotechnology at universities research institutions and biotechnology

companies **Salt tolerance: Molecular and physiological mechanisms and breeding applications, volume II**

Loredana F. Ciarmiello, Pasqualina Woodrow, 2023-01-27 *Contemporary Suitability of Nanobionics in Agriculture* Vishnu D. Rajput, Arti Goel, Ram Prasad, Tatiana Minkina, 2025-04-23 Attempts to apply nanotechnology in agriculture began with the growing realization that conventional farming technologies would neither be able to increase productivity any further nor restore ecosystems damaged by existing technologies back to their pristine state in particular because the long term effects of farming with miracle seeds in conjunction with irrigation fertilizers and pesticides have been questioned both at the scientific and policy levels and must be gradually phased out Nanotechnology in agriculture has gained momentum in the last decade with an abundance of public funding but the pace of development is modest even though many disciplines fall under the umbrella of agriculture One reason this may be is due to the fact that not much information about the safe use of nanomaterials in agriculture system has been accessible in recent years Contemporary Suitability of Nanobionics in Agriculture provides insight into the uses of nanomaterials in agriculture which will be of particular use for agriculture personnel beyond The book includes an overview of nanobionics in agriculture while also focusing on specific subjects such as recent advances future outlook biosafety regulatory aspects etc Nanotechnologic intervention in farming has bright prospects for improving the efficiency of nutrient use through nanoformulations of fertilizers breaking yield barriers through bionanotechnology surveillance and control of pests and diseases understanding mechanisms of host parasite interactions at the molecular level development of new generation pesticides and their carriers preservation and packaging of food and food additives strengthening of natural fibers removal of contaminants from soil and water improving the shelf life of vegetables and flowers clay based nano resources for precision water management reclamation of salt affected soils and stabilization of erosion prone surfaces to name a few *Gene Expression in Horticultural Crops* Robert D. Warmbrodt, 1992

Physiological and Molecular Aspects of Plant Rootstock-Scion Interactions Rosario Paolo Mauro, Francisco Perez-Alfocea, Sarah Jane Cookson, Nathalie Ollat, Alessandro Vitale, 2022-02-11 *Multi-omics and computational biology in horticultural plants: From genotype to phenotype* Yunpeng Cao, Hui Song, Liangsheng Zhang, Suwendu Mondal, 2023-02-28

Biostimulants in Agriculture II: Towards a Sustainable Future Maurizio Ruzzi, Giuseppe Colla, Youssef Roupheal, 2024-06-11 Modern agriculture needs to review and broaden its practices and business models by integrating opportunities coming from different adjacent sectors and value chains including the bio based industry in a fully circular economy strategy Searching for new tools and technologies to increase crop productivity under optimal and sub optimal conditions and to improve resources use efficiency is crucial to ensure food security while preserving soil quality microbial biodiversity and providing business opportunities for farmers Biostimulants based on microorganisms or organic substances obtained from renewable materials represent a sustainable efficient technology or complement to synthetic counterparts to improve nutrient use efficiency and secure crop yield stability Under the new European Union Regulation 2019 1009 plant

biostimulants were defined based on four agricultural functional claims as follows Plant biostimulants are products that stimulate plant nutrition processes independently of the product s nutrient content with the sole aim of improving one or more of the following characteristics of the plant and or the plant rhizosphere 1 nutrient use efficiency 2 tolerance resistance to a biotic stress 3 quality characteristics or 4 availability of confined nutrients in the soil or rhizosphere Many diverse natural substances and chemical derivatives of natural or synthetic compounds as well as beneficial microorganisms are cataloged as plant biostimulants including i humic substances ii plant or animal based protein hydrolysates iii macro and micro algal extracts iv silicon v arbuscular mycorrhizal fungi AMF and vi plant growth promoting rhizobacteria PGPR belonging to the Azotobacter Azospirillum and Rhizobium genera

Genetic Engineering of Vegetable Crops Pritam Kalia,2024-12-20 Conventional plant breeding alone can no longer sustain the rising global demand for food Genetic engineering technology makes it possible to develop new crop varieties with improved yield performance specific quality attributes external and internal in vegetable crops resistance to diseases and insect pests and environmental stresses Genetic engineering technology for developing GM crops is complementary to genome editing and other breeding technologies In addition to food requirements transgenic crops have the possibility to carry edible vaccines and therapeutic proteins to help combat human disease and malnutrition This book reviews the importance and safety of transgenic vegetable crops and covers a wide variety of crops and different technologies This book is suitable for researchers in horticulture plant science and agricultural biotechnology as well as practitioners in vegetable breeding and seed production

OMICS Applications in Crop Science Debmalya Barh,2013-12-16 Merging topical data from recently published review and research articles as well as the knowledge and insight of industry experts Omics Applications in Crop Science delves into plant science and various technologies that use omics in agriculture This book concentrates on crop breeding and environmental applications and examines the applicatio

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