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RICE BIOTECHNOLOGY: IMPROVING YIELD, STRESS TOLERANCE AND GRAIN QUALITY



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Rice Biotechnology Improving Yield Stress Tolerance And Grain Quality

**Gyanendra Kumar Rai, Ranjeet Ranjan
Kumar, Sreshti Bagati**



Rice Biotechnology Improving Yield Stress Tolerance And Grain Quality:

Rice Biotechnology Jamie A. Goode, Derek J. Chadwick, 2008-04-30 Rice is the most important food crop for half the world's population. Over the last three decades the improvement in human nutrition and health in Asia has largely been attributable to a relatively stable and affordable rice supply. The challenge to produce enough rice for the future however remains daunting as the current rate of population growth outpaces that of increases in rice production. Science has a central role to play in raising rice productivity and this book highlights areas of plant science that are particularly relevant to solving the major constraints on rice production. Examining molecular genetic and cellular techniques it considers recent advances in four research approaches for increasing yields and improving the nutritional quality of rice. Plant genomics: knowing the identity and location of each gene in the rice genome is of immense value in all aspects of rice science and cultivar improvement. Molecular biological approaches to increase yield to produce more biomass by increasing photosynthetic rate and duration and by improving grain filling. Enhancing tolerance to biotic and abiotic stresses with new DNA array technologies it is now possible to assess global genomic response to stresses. Understanding the relationships among stress pathways may create new opportunities for gene manipulation to enhance tolerance to multiple biotic and abiotic stresses. Improving nutritional quality in the grain: knowledge of the biosynthesis of micronutrients in plants permits genetic engineering of metabolic pathways to enhance the availability of micronutrients. Improving Water and Nutrient-Use Efficiency in Food Production Systems Zed Rengel, 2013-04-01 Improving Water and Nutrient Use Efficiency in Food Production Systems provides professionals, students and policy makers with an in depth view of various aspects of water and nutrient use in crop production. The book covers topics related to global economic, political and social issues related to food production and distribution, describes various strategies and mechanisms that increase water and nutrient use efficiency and reviews the current situation and potential improvements in major food producing systems on each continent. The book also deals with problems experienced by developed countries separately from problems facing developing countries. Improving Water and Nutrient Use Efficiency emphasizes judicious water and nutrient management which is aimed at maximising water and nutrient utilisation in the agricultural landscape and minimising undesirable nutrient losses to the environment. Crop Stress and its Management: Perspectives and Strategies B. Venkateswarlu, Arun K. Shanker, Chitra Shanker, M. Maheswari, 2011-11-22 Crops experience an assortment of environmental stresses which include abiotic viz drought, water logging, salinity, extremes of temperature, high variability in radiation, subtle but perceptible changes in atmospheric gases and biotic viz insects, birds, other pests, weeds, pathogens, viruses and other microbes. The ability to tolerate or adapt and overwinter by effectively countering these stresses is a very multifaceted phenomenon. In addition, the inability to do so which renders the crops susceptible is again the result of various exogenous and endogenous interactions in the ecosystem. Both biotic and abiotic stresses occur at various stages of plant development and frequently more than one stress concurrently.

affects the crop Stresses result in both universal and definite effects on plant growth and development One of the imposing tasks for the crop researchers globally is to distinguish and to diminish effects of these stress factors on the performance of crop plants especially with respect to yield and quality of harvested products This is of special significance in view of the impending climate change with complex consequences for economically profitable and ecologically and environmentally sound global agriculture The challenge at the hands of the crop scientist in such a scenario is to promote a competitive and multifunctional agriculture leading to the production of highly nourishing healthy and secure food and animal feed as well as raw materials for a wide variety of industrial applications In order to successfully meet this challenge researchers have to understand the various aspects of these stresses in view of the current development from molecules to ecosystems The book will focus on broad research areas in relation to these stresses which are in the forefront in contemporary crop stress research

Climate Change and Crop Production Matthew P. Reynolds, 2010 Agricultural botanical and social scientists from the four quarters of the world address the impact of climate change on crop productivity some approaches to adapt plants to both biotic and abiotic stresses and measures to reduce greenhouse gases They cover predictions of climate change within the context of agriculture adapting to biotic and abiotic stresses through crop breeding sustainable and resource conserving technologies for adapting to and mitigating climate change and new tools for enhancing crop adaptation to climate change Specific topics include economic impacts of climate change on agriculture to 2030 breeding for adaptation to heat and drought stress managing resident soil microbial community structure and function to suppress the development of soil borne diseases and applying geographical information systems GIS and crop simulation modeling in climate change research

Plant Genetic Resources Newsletter, 1995

Rice Genetics IV Gurdev S. Khush, D. S. Brar, Bill Hardy, International Rice Research Institute, 2001 Geneticists contribute on a wide range of topics in this book from classical genetics to the most advanced research on sequencing of the rice genome and functional genomics They review advances in rice research and discuss molecular markers genome organization and gene isolation

Agricultural Biotechnology for Improving Crop Productivity and Stress Tolerance Abeer Abdul-Kadhim Faleh Mahdi, Amal Hasan Naghmash Al-Qarawee, Athraa Ali Qasim Abd al-Badiri, Saja Hasan Sarmk Hassan Al-Ghazi, Mohammed Ali Raheem Mohammed al_Khalidi, 2025-07-30 This book explores cutting edge advancements in agricultural biotechnology focusing on genetic engineering molecular breeding and biotechnological tools to enhance crop productivity and stress tolerance It highlights strategies to address challenges of climate change pests and resource scarcity offering sustainable solutions for food security and agricultural resilience in diverse ecosystems

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.

Bioenergy Feedstocks Malay C. Saha, Hem S. Bhandhari, Joseph H. Bouton, 2013-04-03. Bioenergy and biofuels are generated from a wide variety of feedstock. Fuels have been converted from a wide range of sources from vegetable oils to grains and sugarcane. Second generation biofuels are being developed around dedicated non food energy crops such as switchgrass and Miscanthus with an eye toward bioenergy sustainability. Bioenergy Feedstocks: Breeding and Genetics looks at advances in our understanding of the genetics and breeding practices across this diverse range of crops and provides readers with a valuable tool to improve cultivars and increase energy crop yields. Bioenergy Feedstocks: Breeding and Genetics opens with chapters focusing primarily on advances in the genetics and molecular biology of dedicated energy crops. These chapters provide in depth coverage of new high potential feedstocks. The remaining chapters provide valuable overview of breeding efforts of current feedstocks with specific attention paid to the development of bioenergy traits. Coverage in these chapters includes crops such as sorghum, energy canes, corn and other grasses and forages. The final chapters explore the role of transgenics in bioenergy feedstock production and the development of low input strategies for producing bioenergy crops. A timely collection of work from a global team of bioenergy researchers and crop scientists. Bioenergy Feedstocks: Breeding and Genetics is an essential reference on cultivar improvement of biomass feedstock crops.

Agrobacterium: From Biology to Biotechnology Tzvi Tzfira, Vitaly Citovsky, 2007-12-25. Agrobacterium is a plant pathogen which causes the crown gall disease, a neoplastic growth that results from the transfer of a well defined DNA segment, transferred DNA or T DNA, from the bacterial Ti tumor inducing plasmid to the host cell, its integration into the host genome and the expression of oncogenes contained on the T DNA. The molecular machinery needed for T DNA generation and transport into the host cell and encoded by a series of chromosomal *chv* and Ti plasmid virulence *vir* genes has been the subject of numerous studies over the past several decades. Today Agrobacterium is the tool of choice for plant genetic engineering with an ever expanding host range that includes many commercially important crops, flowers and tree species. Furthermore, its recent application for the genetic transformation of

non plant species from yeast to cultivated mushrooms and even to human cells promises this bacterium a unique place in the future of biotechnological applications The book is a comprehensive volume describing *Agrobacterium* s biology interactions with host species and uses for genetic engineering

Rice Genetics Iv - Proceedings Of The Fourth International Rice Genetics Symposium Gurdev S Khush,Darshan S Brar,Bill Hardy,2008-04-03 The Rice Genetics Collection of past symposia and other selected literature contains nearly 4 400 pages of searchable information on rice genetics and cytogenetics published by the IRRI and its partners since 1964 In addition to the five genetics symposia held at 5 year intervals since 1985 the collection contains classic publications that kicked off significant reporting on these subjects in the early 1960s This collection is a comprehensive and historical documentation on the subject of rice genetics spanning 45 years of research and scholarly work Held in 2000 and published the following year Rice Genetics IV contains 31 chapters from various contributors on topics dealing with rice genetic research including molecular markers genetic diversity and evolution structural and functional genomics gene isolation and function and transformation

Charting New Pathways to C4 Rice J. E. Sheehy,Peter L. Mitchell,Bill Hardy,2007 Setting the science C4 rice from theory to practice Single cell c4 systems The background and how C4 rice can be delivered Setting up the consortium

Vegetation Index and Dynamics Eusebio Cano Carmona,Ricardo Quinto Canas,Ana Cano Ortiz,Carmelo Maria Musarella,2022-02-23 The book contemplates different ways of approaching the study of vegetation as well as the type of indices to be used However all the works pursue the same objective to know and interpret nature from different points of view either through knowledge of nature in situ or the use of technology and mapping using satellite images Chapters analyze the ecological parameters that affect vegetation the species that make up plant communities and the influence of humans on vegetation

Genetic Engineering Mark Y. Herring,2005-12-30 Genetic engineering has quickly become one of the more controversial issues of our time Herring provides a detailed history of the debate in a fair and balanced manner using proponents points of view to make individual cases both pro and con Narrative chapters cover such topics as the Human Genome Project gene splicing cloning genetically altered foods and DNA and crime solving Students and the general public will find a comprehensive survey of the genetic engineering debate Appendices include statements from Robert P George and Peter Singer two of the most prominent scholars on the subject and a bibliography of print and electronic resources for further research

Introduction to Genetic Engineering of Crop Plants A. Rashid,2013-12-30 Transgene technology since its inception about two decades ago has progressed rapidly providing platform for discovery product design and novel plants which are improved source of food feed chemicals and drugs This knowledge is changing rapidly by which plants develop their architecture to survive abiotic and biotic stress and become resistant to herbicides pests and pathogens Also the scene is set for a change from traditional farming to molecular farming Moreover gene silencing from a bane has turned out to be a boon opening new vistas in genetic engineering of crop plants In this book one can find an up to date account of aims and achievements of genetic engineering

of crop plants This book will be useful for the undergraduate students of Botany Biotechnology and Agriculture

The Role of Plant Pathology in Food Safety and Food Security R.N. Strange, Maria Lodovica Gullino, 2009-11-28 This collection of papers represents some of those given at the International Congress for Plant Pathology held in Turin in 2008 in the session with the title The Role of Plant Pathology in Food Safety and Food Security Although food safety in terms of Is this food safe to eat did not receive much direct attention it is nevertheless an important topic A crop may not be safe to eat because of its inherent qualities Cassava for example is cyanogenic and must be carefully prepared if toxicosis is to be avoided Other crops may be safe to eat providing they are not infected or infested by microorganisms Mycotoxins are notorious examples of compounds which may contaminate a crop either pre or post harvest owing to the growth of fungi Two papers in this book deal with toxins one by Barbara Howlett and co workers and the other by Robert Proctor and co workers In the first of these the role of sirodesmin PL a compound produced by *Leptosphaeria maculans* causal agent of blackleg disease of oilseed rape *Brassica napus* is discussed The authors conclude that the toxin plays a role in virulence of the fungus and may also be beneficial in protecting the pathogen from other competing micro organisms but there seem to be no reports of its mammalian toxicity

Soil Constraints on Crop Production Yash Dang, Neal Menzies, Ram C Dalal, 2022-08-19 Globally over two thirds of soils are affected by physical chemical or biological soil constraints These constraints cause significant yield loss and as such identifying appropriate management strategies is crucial to ensure future world food production In order to help agricultural researchers and practitioners better understand soil constraint management this book comprehensively outlines the occurrence of the major soil constraints and the most appropriate strategies to manage these for sustainable food production Importantly it brings together experts from major agricultural regions globally to highlight approaches with the most success in different environmental and socioeconomic regions worldwide

Plant Molecular Breeding H. John Newbury, 2009-02-18 The last few years have seen an explosion of new information and resources in the areas of plant molecular genetics and genomics As a result of developments such as high throughput sequencing we now have huge amounts of information available on plant genes But how does this help people charged with the task of improving crop species to create products with altered functions or improved characteristics This volume considers ways in which the new information resources and technology can be exploited by the plant breeder Examples in current use will be quoted wherever possible

Water Productivity in Agriculture J. W. Kijne, Randolph Barker, D. J. Molden, 2003 First title in a major new series Addresses improving water productivity to relieve problems of scarcity and competition to provide for food and environmental security Draws from scientists having a multitude of disciplines to approach this important problem In a large number of developing countries policy makers and researchers are increasingly aware of the conflicting demands on water and look at agriculture to be more effective in its use of water Focusing on both irrigated and rain fed agriculture this book gives a state of the art review of the limits and opportunities for improving water productivity in crop production It

demonstrates how efficiency of water use can be enhanced to maximize yields The book represents the first in a new series of volumes resulting from the Comprehensive Assessment of Water Management in Agriculture a research program conducted by the CGIAR s Future Harvest Centres the Food and Agriculture Organization of the United Nations and partners worldwide It will be of significant interest to those working in areas of soil and crop science water management irrigation and development studies Collaboration in the New Life Sciences John N. Parker,Niki Vermeulen,Bart Penders,2016-05-23 In recent years the organisation and practice of collaboration in the life sciences has undergone radical transformations owing to the advent of big science enterprises newly developed data gathering and storage technologies increasing levels of interdisciplinarity and changing societal expectations for science Collaboration in the New Life Sciences examines the causes and consequences of changing patterns of scientific collaboration in the life sciences This book presents an understanding of how and why collaboration in the life sciences is changing and the effects of these changes on scientific knowledge the work lives and experiences of scientists social policy and society Through a series of thematically arranged chapters it considers the social technical and organizational facets of collaboration addressing not only the rise of new forms of collaboration in the life sciences but also examining recent developments in two broad research areas ecology and environment and the molecular life sciences With an international team of experts presenting case studies and analyses drawn from the US UK Asia and Europe Collaboration in the New Life Sciences will appeal not only to scholars and students of science and technology studies but also to those interested in science and social policy and the sociology of work and organisations

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