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Function Of Specific Genes To Enhance Tolerance To Oxygen

Maliheh Eftekhari, Chuang Ma, Yuriy L. Orlov



Function Of Specific Genes To Enhance Tolerance To Oxygen:

Function Of Specific Genes To Enhance Tolerance To Oxygen M. Morimyo,1989 **Long-Distance Systemic Signaling and Communication in Plants** František Baluška,2013-05-27 Our view of plants is changing dramatically Rather than being only slowly responding organisms their signaling is often very fast and signals both of endogenous and exogenous origin spread throughout plant bodies rapidly Higher plants coordinate and integrate their tissues and organs via sophisticated sensory systems which sensitively screen both internal and external factors feeding them information through both chemical and electrical systemic long distance communication channels This revolution in our understanding of higher plants started some twenty years ago with the discovery of systemin and rapid advances continue to be made This volume captures the current state of the art of this exciting topic in plant sciences *Radiation Research* E. M. Fielden,1987

Identification and Functional Dissection of Stress-responsive Genes in Cotton Jia-He Wu,Hong Zhang,Qing Liu,Lanqin Xia,Jinfa Zhang,Fuguang Li,2022-11-22 **Plant Adaptation to Abiotic Stress: From Signaling Pathways and Microbiomes to Molecular Mechanisms** Radhouane Chaffai,Markkandan Ganesan,Ameur Cherif,2024-05-23 The book *Plant Adaptation to Abiotic Stress From Signaling Pathways and Microbiomes to Molecular Mechanisms* comprehensively examines abiotic stressors cold heat light salinity and water scarcity across its 18 chapters Focusing particularly on *Arabidopsis thaliana* it investigates abiotic stresses adaptation strategies and molecular pathways Furthermore it addresses broader issues including climate challenges food security water scarcity and agricultural concerns such as soil acidity and aluminum stress It proposes adaptive measures for cultivating stress resistant crops and sheds light on genetic modification methods such as CRISPR Cas9 integrating nanotechnology in plant breeding Emphasizing transcription factors post translational protein modifications and diverse noncoding RNAs long noncoding RNAs circular RNAs microRNAs and small interfering RNAs the book highlights their role in regulating gene expression during stress responses It specifically underscores secondary messengers plant hormones and MAPK cascades within intracellular signaling pathways Additionally it discusses the roles of endophytic bacteria and microbial interactions in bolstering stress resilience The book explores state of the art research methodologies in plant breeding omics approaches and nanotechnology integration for developing stress resistant crop varieties advocating for agricultural sustainability Tailored for plant physiology scientists academics and postgraduate students it amalgamates diverse research findings serving as a pivotal resource to comprehend intricate plant responses to environmental challenges **Plant Responses to Hypoxia** Elena Loreti,Gustavo Striker,2021-03-02 Molecular oxygen deficiency leads to altered cellular metabolism and can dramatically reduce crop productivity Nearly all crops are negatively affected by a lack of oxygen hypoxia due to adverse environmental conditions such as excessive rain and soil waterlogging Extensive efforts to fully understand how plants sense oxygen deficiency and their ability to respond using different strategies are crucial to increase hypoxia tolerance Progress in our understanding has been significant in recent

years This topic certainly deserves more attention from the academic community therefore we have compiled a series of articles reflecting the advancements made thus far **Genomics in Plant Sciences: Understanding and Development of Stress-Tolerant Plants** Yusuf Khan,Ayaz Dar,Hussain Touseef,Kashif Nawaz,Pranav Pankaj Sahu,2023-06-29

Microbial Communities and Functions Contribute to Plant Performance Under Various Stresses Hui Li,Diane Purchase,Xun Wen Chen,Hai-Ming Zhao,2022-12-02 **Abiotic Stress Signaling in Plants: Functional Genomic Intervention** Girdhar K. Pandey,Manoj Prasad,Amita Pandey,Maik Boehmer,2016-08-08 Abiotic stresses such as high temperature low temperature drought and salinity limit crop productivity worldwide Understanding plant responses to these stresses is essential for rational engineering of crop plants In Arabidopsis the signal transduction pathways for abiotic stresses light several phytohormones and pathogenesis have been elucidated A significant portion of plant genomes Arabidopsis and rice were mostly studied encodes for proteins involves in signaling such as receptor sensors kinases phosphatases transcription factors and transporters channels Despite decades of physiological and molecular effort knowledge pertaining to how plants sense and transduce low and high temperature low water availability drought water submergence microgravity and salinity signals is still a major question for plant biologist One major constraint hampering our understanding of these signal transduction processes in plants has been the lack or slow pace of application of molecular genomic and genetics knowledge in the form of gene function In the post genomic era one of the major challenges is investigation and understanding of multiple genes and gene families regulating a particular physiological and developmental aspect of plant life cycle One of the important physiological processes is regulation of stress response which leads to adaptation or adjustment in response to adverse stimuli With the holistic understanding of the signaling pathways involving not only one gene family but multiple genes or gene families plant biologist can lay a foundation for designing and generating future crops which can withstand the higher degree of environmental stresses especially abiotic stresses which are the major cause of crop loss throughout the world without losing crop yield and productivity Therefore in this e Book we intend to incorporate the contribution from leading plant biologists to elucidate several aspects of stress signaling by functional genomics approaches **Molecular crosstalk between oilseed crops and pathogens** Cunmin Qu,Qi Peng,Huajian Zhang,2023-08-16 Targeted Genome Engineering via CRISPR/Cas9 in Plants Alvina Gul,2024-07-18 Targeted Genome Engineering via CRISPR Cas9 in Plants provides in depth insights into the use of the emerging CRISPR Cas9 technology for precise genome editing This technology has revolutionized plant science research particularly for crop improvement owing to its simplicity and efficiency The book provides a wide range of CRISPR Cas9 gene editing techniques for a variety of plants Chapters include the latest applications of CRISPR Cas9 system in connection with abiotic stresses biotic stresses biofortification yield improvement disease modelling and prognosis and molecular diagnosis Targeted Genome Engineering via CRISPR Cas9 in Plants also evaluates various regulatory and ethical aspects that must be considered when implementing

the CRISPR Cas9 approach This book is a valuable resource for professionals and researchers as it provides effective CRISPR Cas9 based strategies for sustainable agriculture and treatment of various diseases Explains basic mechanism and implementation of CRISPR Cas9 technology in a wide range of plants Provides practical guidance on the applications of CRISPR Cas9 in different scientific disciplines of plant science Discusses the risks and challenges of genome engineering

Functional Response of Aquatic Plants to Environmental Stressors Jun Xu, Qiang Yang, 2025-04-24 Aquatic plants such as floating macrophytes submerged macrophytes emergent macrophytes wetland plants and algae play vital roles in maintaining the health and functioning of aquatic ecosystems However increasing environmental stressors such as pollution climate change habitat alteration and nutrient imbalances are impacting the functional responses of these plants Current progress is impeded by the complexity of aquatic ecosystems and the intricate interactions between different stressors Additionally the long term effects of these stressors on the resilience and adaptability of aquatic plant populations are not yet fully understood This Research Topic aims to explore the diverse and complex ways in which aquatic plants respond to various stressors shedding light on their adaptation mechanisms resilience and potential for ecosystem restoration We invite researchers ecologists and environmental scientists to contribute to this article collection focusing on the functional response of aquatic plants to environmental stressors

Advances in Plant Physiology (Vol. 11) A. Hemantaranjan, 2009-01-01 The configuration of Volume 11 of the International Treatise Series has been absolutely due to praiseworthy contributions from Scientists of global eminence This programme has been undertaken with a view to reinforce the indistinguishable efforts to recognize the outcome of scrupulous research in some of the very rational and stirring areas of Environmental and Molecular Physiology of Plants In order to sustain and further advance it is committed to maintain the originality and the introduction of novel ideas ensuring that the treatise welcomes the best science done across the full extent of modern plant biology in general and plant physiology in particular Indeed within the time span of twelve years this treatise has been duly recognized through Current Book Contents and other academic periodicals in the minds of distinguished readers and has beyond doubt achieved the international status It is reiterated that in spite of handiness of quick accessibility of vast literature from internet this treatise series in the field of life sciences has been realized over and above to be like a true guide friend and philosopher continually enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere internet web service It is glory to record that in Volume 11 with inventive applied research attempts have been made to bring together much needed fifteen review articles by Fifty eight contributors from Brazil China Egypt France Germany India Switzerland and Tunisia duly evaluated by Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally disseminated in Seven Sections Creditably in this volume over five important reviews belong to the field of Environmental Stresses besides covering significant areas of research In genuineness the treatise is an achievement for interdisciplinary exchange of information It

would be extremely a significant book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany besides fulfilling needs for research teams and scientists engaged in various facets of research in Molecular Physiology and Biology of Plants in traditional and agricultural universities institutes and research laboratories throughout the world

Identification and functional analysis of differentially expressed genes in plant response to abiotic stresses Xuke Lu, Waqar Afzal Malik, Ting Zhao, Yupeng Cui, Libei Li, 2023-08-24 *Approaches to Plant Stress and their Management* R.K. Gaur, Pradeep Sharma, 2013-12-02 Plant stresses are serious threats to the sustainability of crop yields accounting for more crop productivity losses than any other factor in rainfed agriculture Post harvest losses mean surplus crops do not reach market affecting the livelihoods of farming families and too often these families are left with no other option than to eat contaminated stored food These constraints impact the food security of these farming families as well as the communities and countries in which they live This book is the demonstration of a clear synergistic effect of stresses an effect that was unexpectedly as important as either stress applied alone This book will add to our current knowledge of abiotic stress response in plants and will provide the groundwork necessary to build future strategies for crop enhancement The fundamental principles that underpin all biotechnology are explained and a full range of examples discussed to show how these principles are applied from starting substrate to final product It will be beneficial to both plant breeders and molecular biologists because it combines the topics of physiology tolerance genes and breeding methods When these topics are presented together it is easy to compare all aspects of tolerance mechanisms and breeding methods for abiotic stresses These comparisons are useful to understand which pathways or which genes are important for rendering more tolerance to a certain abiotic stress and to bring forward new ideas for improving the tolerance Features Cover both plant biotic and abiotic stresses Important factors in managing crops for water stress conditions Substantially increase the sustainable productivity of smallholder farmers in developing countries Genetic and biochemical approaches if those approaches constitute a substantial improvement on current practices

Applications of artificial intelligence, machine learning, and deep learning in plant breeding Maliheh Eftekhari, Chuang Ma, Yuriy L. Orlov, 2024-05-29 Artificial Intelligence AI is an extensive concept that can be interpreted as a concentration on designing computer programs to train machines to accomplish functions like or better than humans An important subset of AI is Machine Learning ML in which a computer is provided with the capacity to learn its own patterns instead of the patterns and restrictions set by a human programmer thus improving from experience Deep Learning DL as a class of ML techniques employs multilayered neural networks The application of AI to plant science research is new and has grown significantly in recent years due to developments in calculation power proficiencies of hardware and software progress AI algorithms try to provide

classifications and predictions As applied to plant breeding particularly omics data ML as a given AI algorithm tries to translate omics data which are intricate and include nonlinear interactions into precise plant breeding The applications of AI are extending rapidly and enhancing intensely in sophistication owing to the capability of rapid processing of huge and heterogeneous data The conversion of AI techniques into accurate plant breeding is of great importance and will play a key role in the new era of plant breeding techniques in the coming years particularly multi omics data analysis Advancements in plant breeding mainly depend upon developing statistical methods that harness the complicated data provided by analytical technologies identifying and quantifying genes transcripts proteins metabolites etc The systems biology approach used in plant breeding which integrates genomics transcriptomics proteomics metabolomics and other omics data provides a massive amount of information It is essential to perform accurate statistical analyses and AI methods such as ML and DL as well as optimization techniques to not only achieve an understanding of networks regulation and plant cell functions but develop high precision models to predict the reaction of new Genetically Modified GM plants in special conditions The constructed models will be of great economic importance significantly reducing the time labor and instrument costs when finding optimized conditions for the bio exploitation of plants This Research Topic covers a wide range of studies on artificial intelligence assisted plant breeding techniques which contribute to plant biology and plant omics research The relevant sub topics include but are not restricted to the following AI assisted plant breeding using omics and multi omics approaches Applying AI techniques along with multi omics to recognize novel biomarkers associated with plant biological activities Constructing up to date ML modeling and analyzing methods for dealing with omics data related to different plant growth processes AI assisted omics techniques in the plant defense process Combining AI assisted omics and multi omics techniques using plant system biology approaches Combining bioinformatics tools with AI approaches to analyze plant omics data Designing cutting edge workflow and developing innovative AI biology methods for omics data analysis Plant Signaling Molecules M. Iqbal R. Khan, Palakolanu Sudhakar Reddy, Antonio Ferrante, Nafees A Khan, 2019-03-15 Plant Signaling Molecule Role and Regulation under Stressful Environments explores tolerance mechanisms mediated by signaling molecules in plants for achieving sustainability under changing environmental conditions Including a wide range of potential molecules from primary to secondary metabolites the book presents the status and future prospects of the role and regulation of signaling molecules at physiological biochemical molecular and structural level under abiotic stress tolerance This book is designed to enhance the mechanistic understanding of signaling molecules and will be an important resource for plant biologists in developing stress tolerant crops to achieve sustainability under changing environmental conditions Focuses on plant biology under stress conditions Provides a compendium of knowledge related to plant adaptation physiology biochemistry and molecular responses Identifies treatments that enhance plant tolerance to abiotic stresses Illustrates specific physiological pathways that are considered key points for plant adaptation or tolerance to abiotic stresses **Plant**

signaling: Understanding the molecular crosstalk Khalid Rehman Hakeem, Reiaz Ul Rehman, Inayatullah

Tahir, 2013-10-25 Plant signalling has emerged as an integrated field which has become indispensable in recent times to study any biological process. Over the last decade an enormous amount of information has been generated in this field and the advances in information technology gave birth to bioinformatics which has helped greatly in managing the galaxy of information. It is now possible to view the different information s in a systems biology approach which has unravelled the association new processes and thus helped us enormously in understanding of the biological processes. The present book is an attempt at understanding the plant signalling processes with different perspectives. Even though the plants are sessile but there exists a tremendous interconnected network of perception at morphological physiological and molecular levels. The impact of the surrounding environment in terms of abiotic and biotic stresses is significant in terms of its survival adaptation and productivity for the human welfare. The plants possess a wide array of processes at the organ tissue and cellular levels which are governed by a plethora of molecules. The molecules govern individual processes and these exists a cross talk between them to form a complex network of processes. The book tries to envision how different processes are operating at different points in the life cycle of the plant.

Plant Transformation Horacio Esteban Hopp, Luis Herrera-Estrella, German Spangenberg, 2022-05-10

Role of Antioxidants in Mitigating Plant Stress Azamal Husen, 2025-07-01

Role of Antioxidants in Mitigating Plant Stress explores the fundamental roles and mechanistic approaches of antioxidant stress tolerance strategies. With chapters addressing both enzymatic and non enzymatic antioxidants it provides a clear guide for understanding plant responses. Presenting current understanding of these components the book features their role molecular properties and reaction mechanisms to various environmental conditions. This book provides an important reference for researchers and advanced level students seeking to improve plant health. Plants are regularly exposed to various kinds of abiotic and biotic stresses in their natural environmental conditions. These stresses have significant influence on agriculture worldwide and thus lead to massive economic losses as well as food insecurity. Research has identified many of the effects of and mitigation techniques for various stresses that impact plant systems. Strategies for strengthening the antioxidant defense system can increase yields and protect crop plants from a variety of stresses. Discusses the modulation of antioxidant systems that enable plants to initiate short and long term mitigation responses. Examines the potential of non enzymatic and enzymatic antioxidants in stress response. Explores coordination of antioxidants plant hormones and PGPR for higher plant performance under various stresses.

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