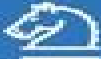


RNA Technologies

Volker A. Erdmann
Jan Barciszewski *Editors*

Non Coding RNAs in Plants

 Springer

Non Coding Rnas In Plants Rna Technologies

Stefan Jurga, Jan Barciszewski



Non Coding Rnas In Plants Rna Technologies:

Non Coding RNAs in Plants Volker A. Erdmann, Jan Barciszewski, 2011-07-20 In the most recent years each of the RNA silencing pathways of plants have appeared to generate ncRNAs with dedicated functions specialized biological activities and specific functional scopes RNA silencing plays a crucial role in coordinating the expression stability protection and inheritance of eukaryotic genomes It compromises several mechanisms that invariably depend on core small non coding RNAs and that achieve dedicated sequence specific functions RNA silencing has been recognized to carry critical developmental stress response and bodyguard functions be coordinating the expression protection stability and inheritance of virtually all eukaryotic genomes Thus the ncRNAs encompass a wide set of mechanisms that achieve specialized functions

Non-coding RNA in Plants Rahul Datta, Chintan Kapadia, Subhan Danish, Sachidanand Singh, 2024-11-29 Non coding RNA in Plants Modulation and Stress Responses is the first book to present the basics of the importance of long non coding RNA and its potential in addressing abiotic and biotic stresses Describing the MiRNA and small RNA and their role in plant development this book explains the importance of long non coding RNA in plants including its significance in virus resistance its transposable elements effector trigger immunity and fungal and bacterial resistance in plants Non coding RNA for Modulation and Stress Response in Plants presents the state of the science from its historical foundation through application throughout the lifecycle and production of agricultural and non agricultural plants While various coding has been explored within animal science plant exposition has been minimal This book is designed to inspire additional research and developments toward improved plant resiliency and production Presents foundational information for understanding the importance of long non coding RNA in plants Summarizes and illustrates identification and diversity analysis approaches toward Non coding RNA as regulations Explores how non coding RNAs may play a role in the regulation of stress responses by highlighting their biogenesis and mechanisms of action *Functional analysis of species-specific noncoding RNAs in plants* Yuepeng Song, Mahmoud Yaish, Deqiang Zhang, Yun Zheng, Lianfeng Gu, Byeong-ha Lee, 2023-02-01

Long Noncoding RNAs in Plants Santosh Kumar Upadhyay, 2020-11-13 The growth of human population has increased the demand for improved yield and quality of crops and horticultural plants However plant productivity continues to be threatened by stresses such as heat cold drought heavy metals UV radiations bacterial and fungal pathogens and insect pests Long noncoding RNAs are associated with various developmental pathways regulatory systems abiotic and biotic stress responses and signaling and can provide an alternative strategy for stress management in plants Long Noncoding RNAs in Plants Roles in development and stress provides the most recent advances in LncRNAs including identification characterization and their potential applications and uses Introductory chapters include the basic features and brief history of development of lncRNAs studies in plants The book then provides the knowledge about the lncRNAs in various important agricultural and horticultural crops such as cereals legumes fruits vegetables and fiber crop cotton and their roles and

applications in abiotic and biotic stress management Includes the latest advances and research in long noncoding RNAs in plants Provides alternative strategies for abiotic and biotic stress management in horticultural plants and agricultural crops Focuses on the application and uses of long noncoding RNAs **Functional RNAs in Plants** Jen-Tsung Chen,2025-10-01

Functional RNAs in Plants Developing Climate Resilient and Stress Resistant Crops explores the role of various RNAs including microRNAs small interfering RNAs long non coding RNAs circular RNAs and CRISPR guide RNAs in plant stress responses These RNAs are crucial for identifying designing and analyzing functional aspects that help plants withstand abiotic and biotic stressors under changing climate conditions The book emphasizes advances in bioinformatics multiple omics and high throughput technologies to understand better and use RNAs for improved agricultural production The book comprehensively reviews the latest technical achievements and current agricultural applications focusing on developing climate resilient and disease resistant crops Through methods applications and case studies it presents valuable insights for academics researchers and advanced level students in plant science making it a crucial resource for enhancing agricultural practices in the face of global environmental changes Includes methods applications and future directions Focuses on advanced tools and recent agricultural applications of plant functional RNAs Covers RNA technology in plant stress physiology and CRISPR precision crop breeding Demonstrates the use of multiple omics and high throughput technologies in plant non coding RNAs Plant Epigenetics Nikolaus Rajewsky,Stefan Jurga,Jan Barciszewski,2017-04-27 This book

presents in 26 chapters the status quo in epigenomic profiling It discusses how functional information can be indirectly inferred and describes the new approaches that promise functional answers collectively referred to as epigenome editing It highlights the latest important advances in our understanding of the functions of plant epigenomics and new technologies for the study of epigenomic marks and mechanisms in plants Topics include the deposition or removal of chromatin modifications and histone variants the role of epigenetics in development and response to environmental signals natural variation and ecology as well as applications for epigenetics in crop improvement Discussing areas ranging from the complex regulation of stress and heterosis to the precise mechanisms of DNA and histone modifications it presents breakthroughs in our understanding of complex phenotypic phenomena **Long Non-Coding RNAs - Function, Mechanisms, and Applications** ,2025-07-02 LncRNAs contribute to cancer progression by regulating gene expression epigenetically and post transcriptionally They influence tumorigenesis through interactions with chromatin modifiers act as competitive endogenous RNAs to modulate microRNA activity and regulate processes such as epithelial mesenchymal transition EMT that facilitate metastasis LncRNAs affect cancer cell proliferation apoptosis migration metabolism and drug resistance making them crucial players in tumor development and potential targets for diagnosis and therapy The book covers the latest reports about lncRNAs **The Chemical Biology of Long Noncoding RNAs** Stefan Jurga,Jan Barciszewski,2020-10-01 This book offers

a comprehensive and detailed overview of various aspects of long non coding RNAs It discusses their emerging significance

in molecular medicine ranging from human cancers to cardiovascular and metabolic diseases Transcriptomic studies have demonstrated that the majority of genomes found in complex organisms are expressed in highly dynamic and cell specific patterns producing huge numbers of intergenic antisense and intronic long non protein coding RNAs lncRNAs Thousands of lncRNAs have been identified and unlike mRNA they have no protein coding capacity A large repertoire of ncRNAs actively transcribed from the mammalian genome control diverse cellular processes both in terms of development and diseases through a variety of gene regulatory mechanisms lncRNAs have emerged as a new paradigm in epigenetic regulation of the genome Given its scope the book will be of particular interest to molecular chemical cell and developmental biologists as well as specialists in translational medicine involved in disease oriented research It also offers a valuable resource for in silico experts seeking a deeper understanding of lncRNA expression and function through computational analysis of the NGS data

Non-coding RNAs for Crop Improvement Kavita Goswami,Temesgen Assefa Gelaw,Neeti Sanan-Mishra,2025-02-14 This edited book covers all aspects of non coding RNAs analysis Non coding RNAs are critical genetic regulators that have evolved as game changers in modifying plant responses to stress conditions The book explores potential relationships between different classes of non coding RNAs and response of plants to biotic and abiotic stresses The chapters are organized into three sections Section 1 provides a basic understanding of the various aspects and roles of RNA silencing Section 2 includes an overview of the molecular techniques and computational methodologies used for identification and analysis of small RNAs Discovery timelines are also provided to highlight the significance of next generation sequencing over time Section 3 of the book covers the applications of RNAi techniques to improve crops and develop stress tolerant varieties This book compiles all available data and computational approaches to analyze non coding RNAs It describes the general characteristics categorization functional analysis and advancements in RNAi and its role in developing stress resilient plants This book is helpful for students and researchers to understand the role of non coding RNAs which opens new insights into next generation sequencing It serves as excellent reading material for undergraduate and graduate students studying molecular biology bioinformatics agriculture and environmental sciences

Use of Barley and Wheat Reference Sequences: Downstream Applications in Breeding, Gene Isolation, GWAS and Evolution Dragan Perovic,Hikmet Budak,Kazuhiro Sato,Pierre Sourdille,2020-08-27 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Omics of Climate Resilient Small Millets Ramesh Namdeo Pudake,Amolkumar U. Solanke,Amitha Mithra Sevanthi,P. Rajendrakumar,2022-07-15 This edited book covers all aspects of

omics approaches used for the varietal improvement of millets in changing climatic conditions Millets are the collection of small grained cereal grasses that are grown for human carbohydrate needs They are among the oldest crops mainly divided into two groups Major and small millets based on seed size Small millets are earlier considered orphan crops but recently due to their nutritional values they are getting importance in cultivation This book explores the genomics transcriptomics proteomics metabolomics bioinformatics and other omics tools that are being widely used to get a clear understanding of mechanistic approaches taken by plant genes to tolerate stress Various reports are published based on field breeding on these crops and recently the genome of some of the small millets is released and many omics studies are published related to its application in varietal improvements This book reviewed all those recent studies and is of interest to research students plant breeding scientists teachers that are working in agriculture and plant biotech universities Along with this the book serves as reference material for undergraduate and graduate students of agriculture and biotechnology National and international agricultural scientists policymakers will also find this to be a useful read

Dictionary of DNA and Genome Technology Paul Singleton, 2012-10-25 DNA technology is evolving rapidly with new methods and a fast growing vocabulary This unique dictionary offers current detailed and accessible information on DNA technology to lecturers researchers and students throughout the biomedical and related sciences The third edition is a major update with over 3000 references from mainstream journals and data from the very latest research going well beyond the remit of most science dictionaries It provides clear explanations of terms techniques and tests including commercial systems with detailed coverage of many important procedures and methods and includes essay style entries on many major topics to assist newcomers to the field It covers topics relevant to medicine diagnosis genetic disorders gene therapy veterinary science biotechnology biochemistry pharmaceutical science drug development molecular biology microbiology epidemiology genomics environmental science plant science agriculture taxonomy and forensic science

Genome and Epigenome Editing for Stress-Tolerant Crops Jen-Tsung Chen, 2025-05-12 Provides a timely overview of the use of CRISPR and non coding RNA technologies to develop climate resilient crops With mounting challenges from climate change expanding populations and resource limitations the need for resilient and sustainable agricultural systems has never been greater *Genome and Epigenome Editing for Stress Tolerant Crops* summarizes advanced techniques for creating crops that can withstand both biotic and abiotic stressors Edited by renowned biologist Jen Tsung Chen this authoritative volume discusses the coordination of CRISPR Cas technology with ncRNA based epigenetics to enhance stress tolerance and improve crop quality In addition to offering insights into genetic and molecular advances contributions by experts in the field present key methodologies and applications that bridge multiple omics technologies with genome editing for impactful agricultural outcomes Addressing emerging tools and strategies that could be instrumental in achieving the United Nations Sustainable Development Goals SDGs and advancing sustainable agriculture *Genome and Epigenome Editing for Stress Tolerant Crops* Provides an in depth overview of CRISPR

Cas and non coding RNA strategies to develop stress tolerant crops Integrates multiple omics approaches including genomics transcriptomics and metabolomics for comprehensive crop improvement Discusses strategies for resilience against both abiotic and biotic stressors such as drought salinity pests and pathogens Offers practical applications of CRISPR and RNA technologies for high yield high quality crop development Presents recent research advancements in epigenetic regulation to fine tune plant stress responses Discusses future directions in plant science to inspire new research and experimental designs Genome and Epigenome Editing for Stress Tolerant Crops is essential reading for advanced undergraduate and graduate courses in plant biology molecular genetics and agricultural biotechnology It is also a valuable reference for researchers plant breeders and scientists working on crop improvement and climate resilient agriculture initiatives

Phenotyping at Plant and Cell Levels: The Quest for Tolerant Crop Development, volume II Ulrich Schurr,Carla Pinheiro,Dionysia Apostolos Fasoula,Estelle Goulas,Sebastien Christian Carpentier,Astrid Junker,2023-11-22 This Research Topic is part of the Phenotyping at Plant and Cell Levels The Quest for Tolerant Crop Development series Phenotyping at Plant and Cell Levels The Quest for Tolerant Crop Development This Research Topic aims at accelerating the discovery of crop varieties that are able to withstand environmental stresses via the use of phenotyping approaches at the plant and cellular levels Climate change is expected to have a drastic impact on agriculture notably by impacting water availability precipitations temperatures soil nutrients and the incidence of diseases and pests A better use of plant genetic resources and plant breeding are key to tackling this challenge from climate change and for food security Many landraces and wild relatives of crops are conserved in seed and gene banks These collections are potentially valuable for breeders but are presently underexploited Moreover the contribution of the soil microbiome to enhance the performance of specific plant genotypes has been overlooked The aim is to generate crops that are resistant against biotic stress or can tolerate abiotic stress without significant impact on their performance Current studies in the field of sensor technologies and phenomics are mainly empirically based and do not link the phenotypic parameters to the molecular scale Similarly many molecular studies do not correlate their findings to the whole plant phenotype The quantitative high throughput analysis of crop potential and behavior during stress is a form of Genotype x Environment interaction and is a major bottleneck We urgently need to identify resilient genotypes and to understand the underlying mechanisms of this resilience Phenotyping science is quickly developing to characterize plant behavior it s dynamic dimensions and to quantify features such as growth and stress resilience which increasingly permit to link the phenotype to genetic control

Advances in Bioinformatics and Computational Biology Marcelo S. Reis,Raquel C. de Melo-Minardi,2023-09-01 This book constitutes the proceedings of the 16th Brazilian Symposium on Bioinformatics on Advances in Bioinformatics and Computational Biology BSB 2023 which took place in Curitiba Brazil in June 2023 The 11 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 24 submissions The papers focus on bioinformatics computational biology Biological Databases

Biological Networks Cheminformatics Evolutionary Genomics Computational Proteomics Systems Biology Drug Design Genomics Machine Learning applications in Bioinformatics Metagenomics Molecular Docking and Modeling Molecular Evolution and Phylogenetics Protein Structure and Modeling Proteomics Transcriptomics Single Cell Analysis Workflows in Bioinformatics

Advances in Plant Disease Management Pranjib K. Chakrabarty, Kalyan K. Mondal, Mahender S. Saharan, Charudatta Mayee, J. Kumar, 2023-12-20 Advances in Plant Disease Management Volume I Fundamental and Basic Research is an invaluable compilation for researchers students stakeholders policymakers in agriculture The book aims to offer the latest understanding of fundamental and basic research fronts toward managing crop plants diseases After clearly explaining the updated knowledge on the host immune system and pathogen s interplay with the host as unraveled through genomics bioinformatics and molecular studies this book equips readers with the knowledge to confidently account for them during the formulation of management strategies for major crop plant diseases The book offers comprehensive coverage of the research advances in plant disease management including Newer insight into the host pathogen interaction including effector driven pathogenesis in different host pathogen systems Updates on plant defense pathways leading to resistance to pathogens Use of novel molecules antagonists and genome editing tools toward manipulating host resistance Plant protection policies that support the agricultural production system from a global perspective

Cancer and Noncoding RNAs Jayprokas Chakrabarti, Sanga Mitra, 2017-10-13 Cancer and Noncoding RNAs offers an in depth exploration of noncoding RNAs and their role in epigenetic regulation of complex human disease most notably cancer In addition to examining microRNAs this volume provides a unique evaluation of more recently profiled noncoding RNAs now implicated in carcinogenesis including lncRNAs piRNAs circRNAs and tRNAs identifying differences in function between these noncoding RNAs and how they interact with the rest of the epigenome A broad range of chapters from experts in the field detail epigenetic regulation of various cancer types along with recent next generation sequencing technologies genome wide association studies GWAS and bioinformatics approaches This book will help researchers in genomic medicine and cancer biology better understand the role of noncoding RNAs in epigenetics aiding in the development of useful biomarkers for diagnosis prognosis and new RNA based disease therapies Provides a comprehensive analysis of noncoding RNAs implicated in epigenetic regulation of gene expression and chromatin dynamics Educates researchers and graduate students by highlighting in addition to miRNAs a range of noncoding RNAs newly associated with carcinogenesis Applies current knowledge of noncoding RNAs and epigenomics towards developing cancer and RNA based disease therapies Features contributions by leading experts in the field

Abiotic Stress Biology in Horticultural Plants Yoshinori Kanayama, Alexey Kochetov, 2015-01-16 The purpose of this publication is to elucidate the biological aspect of the abiotic stress response from the field to the molecular level in horticultural plants This book is unique in that it concerns the basic aspect of abiotic stress biology and research progress at the molecular level in model plants or major field crops as it focuses mainly on the abiotic

stress response in existing horticultural plants Many readers interested in plant abiotic stress biology are aware of the application of the latest findings to agricultural production and this book will have a special appeal for those readers The book will be of interest to scientists and graduate students who are involved in the research development production processing and marketing of horticultural products including those in developing countries who are interested in high tech and advanced science in this field The application of the latest findings to agricultural production is particularly useful Stress tolerance mechanisms in horticultural crops are gaining importance because most agricultural regions are predicted to experience considerably more extreme environmental fluctuations due to global climate change Further because of recent progress in next generation sequencing technologies the postgenomic era is impending not only in model plants and major cereal crops but also in horticultural crops which comprise a great diversity of species This book provides information on the physiological aspects of the abiotic stress response in horticultural plants which is considered essential for postgenomic research

Plant Molecular Systematics Arun K. Pandey, Ritesh K. Choudhary, Mayank D. Dwivedi, Shruti Kasana, 2025-12-09 Plant molecular systematics is a discipline that uses molecular data to unravel the evolutionary relationships among plant species This book serves as an introduction to the core principles of plant molecular systematics presenting the fundamentals in a concise and coherent way It equips students with both foundational knowledge and insights from the latest research The book details how molecular data can be leveraged to build phylogenetic trees which depict evolutionary relationships among plant species Structured into 18 chapters the book explores various aspects of molecular systematics in an engaging and stimulating manner Each chapter includes summaries and relevant illustrations to reinforce key concepts To further support learning the book features a glossary of essential scientific terms suggested further reading and a dedicated section on current challenges and future directions in the field Key molecular techniques and their applications in plant systematics are comprehensively covered including the following Nucleic acids genes and genomes Molecular markers DNA isolation and amplification Next generation sequencing Phylogenetic tree construction Molecular clocks DNA barcoding This book is intended for advanced undergraduate and postgraduate students in plant sciences especially those interested in plant taxonomy It provides a comprehensive resource for anyone pursuing studies in plant molecular systematics

Long Non-coding RNAs in Human Disease Kevin V. Morris, 2016-04-13 This volume focuses on the roles of long non coding RNAs lncRNAs in contexts ranging from human cancers to cardiovascular disease and ageing The role of lncRNAs in X inactivation and those lncRNAs derived from pseudogenes past retroelements integrated within the human genome as well as the role these pseudogene derived lncRNAs play in cancer development are discussed in detail Further the book examines the function of lncRNAs in diseases such as diabetes in smooth muscle formation and in the modulation of nuclear receptors as well as in connection with perspectives on the development of personalized therapeutics It offers an appealing and insightful resource for scientists and clinicians alike

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Table of Contents Non Coding Rnas In Plants Rna Technologies

1. Understanding the eBook Non Coding Rnas In Plants Rna Technologies
 - The Rise of Digital Reading Non Coding Rnas In Plants Rna Technologies
 - Advantages of eBooks Over Traditional Books
2. Identifying Non Coding Rnas In Plants Rna Technologies
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Non Coding Rnas In Plants Rna Technologies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Non Coding Rnas In Plants Rna Technologies
 - Personalized Recommendations
 - Non Coding Rnas In Plants Rna Technologies User Reviews and Ratings
 - Non Coding Rnas In Plants Rna Technologies and Bestseller Lists

5. Accessing Non Coding Rnas In Plants Rna Technologies Free and Paid eBooks
 - Non Coding Rnas In Plants Rna Technologies Public Domain eBooks
 - Non Coding Rnas In Plants Rna Technologies eBook Subscription Services
 - Non Coding Rnas In Plants Rna Technologies Budget-Friendly Options
6. Navigating Non Coding Rnas In Plants Rna Technologies eBook Formats
 - ePub, PDF, MOBI, and More
 - Non Coding Rnas In Plants Rna Technologies Compatibility with Devices
 - Non Coding Rnas In Plants Rna Technologies Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Non Coding Rnas In Plants Rna Technologies
 - Highlighting and Note-Taking Non Coding Rnas In Plants Rna Technologies
 - Interactive Elements Non Coding Rnas In Plants Rna Technologies
8. Staying Engaged with Non Coding Rnas In Plants Rna Technologies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Non Coding Rnas In Plants Rna Technologies
9. Balancing eBooks and Physical Books Non Coding Rnas In Plants Rna Technologies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Non Coding Rnas In Plants Rna Technologies
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Non Coding Rnas In Plants Rna Technologies
 - Setting Reading Goals Non Coding Rnas In Plants Rna Technologies
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Non Coding Rnas In Plants Rna Technologies
 - Fact-Checking eBook Content of Non Coding Rnas In Plants Rna Technologies
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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