

OMICS APPLICATIONS IN CROP SCIENCE



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Omics Applications In Crop Science

Suprasanna Penna, S. Mohan Jain



Omics Applications In Crop Science:

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 *Omics Technologies for Sustainable Agriculture and Global Food Security (Vol II)* Anirudh Kumar, Rakesh Kumar, Pawan Shukla, Hitendra K. Patel, 2021-08-05 This edited book brings out a

comprehensive collection of information on the modern omics based research The main focus of this book is to educate researchers about utility of omics based technologies in rapid crop improvement In last two decades omics technologies have been utilized significantly in the area of plant sciences and has shown promising results Omics technology has potential to address the challenge of food security in the near future The comprehensive use of omics technology occurred in last two decades and helped greatly in the understanding of complex biological problems improve crop productivity and ensure sustainable use of ecosystem services This book is of interest to researchers and students of life sciences biotechnology plant biotechnology agriculture forestry and environmental sciences It is also a useful knowledge resource for national and international agricultural scientists Omics Technologies and Crop Improvement Nouredine Benkeblia, 2014-10-14

Increased world population decreased water supply and climate change all put stresses on the global food supply An exploration of the challenges and possible solutions to improve yields of the main crops such as cereals roots tubers and grasses Omics Technologies and Crop Improvement reviews data on food sciences and omics The book covers **Tea:**

Genome and Genetics Tapan Kumar Mondal, 2020-12-22 Tea is an important non alcoholic beverage plant of the world Cultivation of tea is also commercially very important as it earns huge revenue for the tea growing nations especially the developing countries such as India Although conventional breeding is well established and contributes significantly for varietal improvement of this plant and other Camellia species with ornamental value yet applications of biotechnology vis a vis genomics are essential to improve the productivity and quality of the tea This book brings out various aspects of breeding biotechnology and genomics of tea plants It covers i Origin and descriptions of health benefits as well as morphological classification as first chapter ii Breeding and cytogenetics that comprise with various conventional approaches of varietal improvement of tea along with their genetic resources iii Micro propagation which deals with in depth study of clonal propagation iv Somatic embryogenesis along with alternative techniques such as suspension culture cry preservation etc v Molecular breeding that deals with application of various DNA based markers such as discovery of QTL linkage map etc vi Genetic transformation and associated factors vii Stress physiology complied various works done in tea along with its wild relatives on abiotic as well as biotic stress and viii Functional genomics that describes the various works of molecular cloning and characterizations differential gene expression high throughput sequencing bioinformatics transcriptomics study that

described the application of next generation sequencing to discover various genes that are related to various trait of tea Non coding RNA which describes the discovery of various non coding RNA in tea and related genera The book also discusses recent developments in biotechnology such as metabolomics proteomics genome sequence and popular clone varieties of tea crops that are developed across the world In conclusion the book collates the work on tea plantations so far identified the problems analyzes the gaps on breeding and biotechnological works of tea as well as its wild species and discusses the future scopes as conclusion The book aims to cover all latest information till june 2020 It will be useful resource for post graduate doctoral as well post doctoral students working on tea as well as other woody plants This will also be useful for the scientists working in the areas of life sciences genomics biotechnology and molecular biology Sorghum and Pearl Millet as Climate Resilient Crops for Food and Nutrition Security Mahalingam Govindaraj,Wolfram Weckwerth,Palak Chaturvedi,Velu Govindan,2022-10-03 Mutation Breeding for Sustainable Food Production and Climate Resilience Suprasanna Penna,S. Mohan Jain,2023-04-04 This book highlights the recent progress on the applications of mutation breeding technology in crop plants Plant breeders and agriculturists are faced with the new challenges of climate change human population growth and dwindling arable land and water resources which threaten to sustain food production worldwide Genetic variation is the basis which plant breeders require to produce new and improved cultivars The understanding of mutation induction and exploring its applications has paved the way for enhancing genetic variability for various plant and agronomic characters and led to advances in gene discovery for various traits Induced mutagenesis has played a significant role in crop improvement and currently the technology has resulted in the development and release of more than 3600 mutant varieties in most of the crop plants with great economic impact The field of mutation breeding has come long way to become an important approach for crop improvement This book covers various methodologies of mutation induction screening of mutants genome editing and genomics advances and mutant gene discovery The book further discusses success stories in different countries and applications of mutation breeding in food crops horticultural plants and plantation crops This informative book is very useful to plant breeders students and researchers in the field of agriculture plant sciences food science and genetics *Tea as a Food Ingredient* Junfeng Yin,Zhusheng Fu,Yongquan Xu,2022-07-29 Tea is one of the most widely consumed beverages worldwide and tea extract has been used in a variety of food products including beverages bread cakes ice cream wine biscuits dehydrated fruits and various meat and dairy products In recent years there is growing consumer interest in the tea extract supplemented products Tea as a Food Ingredient Properties Processing and Health Aspects provides extensive scientific information on the properties of tea foods chemical properties formulations and tea as ingredient to develop new health foods It describes tea food production chemical and physical properties sensory quality processing technology and health benefits Early chapters present information relating to scientific studies on the health benefits of tea and the latter chapters focus on introducing tea products into foods which is the major focus of the entire book Key Features Covers broad

areas such as chemical properties bioactive components and health benefits of tea based foods Focuses on chemical properties of tea foods processing technologies functional food products and health benefits Explains how the addition of tea extract changes the properties of food and consumer sensory perception This book presents current and sound scientific knowledge on the nutritional value and health benefit of the different tea based food products and will be beneficial for food science professionals as well as anyone with an interest in tea as a food ingredient and the benefits it can provide

Climate-Smart Sugarcane Cultivation Rajan Bhatt,Krishan K. Verma,Shiv Prasad,Mauro Wagner de Oliveira,2025-10-21 Sugarcane is a crucial eco friendly cash crop with massive agro industrial value as a sweetener and a source of renewable energy Known for its high varietal resistance to changing climate scenarios sugarcane is also reported to be prone to biotic stresses like drought water logging salinity multiple soil related problems and nutrient deficiencies This new volume is a 700 plus page comprehensive resource offering state of the art practical information on sugarcane cultivation and management based on the practical experience knowledge and research from around the world Key features Discusses the impact of global warming and climate change on sugarcane production and offers mitigation and adaptation strategies Presents a plethora of new climate smart technologies for sugarcane cultivation and management Considers climate smart sugarcane fertilization strategies as well as climate smart pest management Looks at recycling and alternate uses of sugarcane products and byproducts for bioethanol production and other purposes Plant Protection Ravindra Soni,Deep Chandra Suyal,Reeta Goel,2022-10-24 Phyto pathogens are one of the dominating components which badly affect crop production In light of the global food demand sustainable agricultural plans utilizing agrochemicals became necessary The role of beneficial microbes in the defense priming of host plants has been well documented This book details new aspects of microbial assisted plant protection and their role in agricultural production economy and environmental sustainability

Biotechnological Production of Bioactive Phytochemicals of Medicinal Value Anabela Romano,P. B. Kavi Kishor,Penna Suprasanna,T. Pullaiah,A. Ranga Rao,2024-07-11 Plants are a source of bioactive compounds and specialty chemicals such as ginsenosides paclitaxel artemisinin veregen and nutraceuticals Biopharmaceuticals are important in human healthcare and herbal actives are gaining importance all over the world With natural resources dwindling in vitro production of secondary compounds on a commercial scale is being more and more required The difficulties that are increasingly encountered in procuring ample supply of raw plant material because of drastic decrease in natural resources have prompted the adaptation of in vitro technology for commercial production of substances of medicinal importance Besides providing an alternative technology to bypass the above difficulties the plant tissue culture used in a broad sense to include cell tissue and organ culture offers many advantages In vitro technology also facilitates novel means of conserving the genetic diversity of the germplasm of medicinal plants through cryopreservation and production of novel compounds through biotransformation somatic hybridization and selective gene transfer through recombinant DNA technology for enhancing the metabolite

production Biotechnological production of bioactive phytochemicals of medicinal value covers a broad variety of methods for secondary metabolites production both pharmaceuticals and cosmeceuticals compiling state of the art material about the current knowledge of in vitro production for a large number of bioactive phytochemicals Compiles state of the art material about in vitro production for several bioactive phytochemicals Incorporates the most recent developments in the field Covers a broad variety of secondary metabolites

Harnessing NanoOmics and Nanozymes for Sustainable Agriculture

Rajput, Vishnu D.,Singh, Abhishek,Ghazaryan, Karen,Alexiou, Athanasios,Said Al-Tawaha, Abdel Rahman

Mohammad,2024-05-01 In an era overshadowed by pressing global challenges such as climate change burgeoning populations and the depletion of natural resources the agricultural landscape is at a critical juncture The need for sustainable practices has never been more urgent with conventional methods struggling to meet the demands of a growing population while grappling with environmental degradation Harnessing NanoOmics and Nanozymes for Sustainable Agriculture delves into the heart of the problem navigating the intricate web of challenges facing agriculture today From dwindling crop yields to the environmental repercussions of conventional farming practices the urgency to find innovative sustainable solutions is paramount Harnessing NanoOmics and Nanozymes for Sustainable Agriculture offers a comprehensive exploration of nanotechnology s potential to revolutionize agriculture presenting a promising pathway toward enhanced productivity minimizing environmental impact and optimal resource utilization

The Oxford Handbook of Food, Politics, and Society

Ronald J. Herring,2015 How is food political market state and knowledge Ronald J Herring Science politics and the framing of modern agricultural technologies John Harriss Drew Stewart Genetically improved crops Martina Newell McGloughlin Agroecological intensification of smallholder farming Rebecca Nelson Robert Coe The hardest case what blocks improvements in agriculture in Africa Robert L Paarlberg The poor malnutrition biofortification and biotechnology Alexander J Stein Biofuels competition for land resources and political subsidies David Pimentel Michael Burgess Alternative paths to food security Norman Uphoff Ethics of food production and consumption Michiel Korthals Food justice and land Saturnino M Borras Jr Jennifer C Franco Food security productivity and gender inequality Bina Agarwal Delivering food subsidy the state and the market Ashok Kotwal Bharat Ramaswami Diets nutrition and poverty lessons from India Raghav Gaiha Raghbendra Jha Vani S Kulkarni Nidhi Kaicker Food price and trade policy biases inefficient inequitable yet not inevitable Kym Andersen Intellectual property rights and the politics of food Krishna Ravi Srinivas Is food the answer to malnutrition David E Sahn Fighting mother nature with biotechnology Alan McHughen Climate change and agriculture countering doomsday scenarios Derrill D Watson II Wild foods Jules Pretty Zareen Bharucha Livestock in the food debate Purvi Mehta Bhatt Paulo Ficarelli The social vision of the alternative food movement Siddhartha Shome Food values beyond nutrition Ann Grodzins Gold Cultural politics of food safety genetically modified food in japan France and the United States Kyoko Sato Food safety Bruce M Chassy The politics of food labeling and certification Emily Clough The politics of grocery shopping eating voting and

possibly transforming the food system Jos e Johnston Norah MacKendrick The political economy of regulation of biotechnology in agriculture Gregory D Graff Gal Hochman David Zilberman Coexistence in the fields GM organic and conventional food crops Janice Thies Global movements for food justice M Jahi Chappell The rise of the organic foods movement as a transnational phenomenon Tomas Larsson The dialectic of pro poor papaya Sarah Davidson Evanega Mark Lynas Thinking the African food crisis the Sahel forty years on Michael J Watts Transformation of the agrifood industry in developing countries Thomas Reardon C Peter Timmer The twenty first century agricultural land rush Gregory Thaler Agricultural futures the politics of knowledge Ian Scoones

Epigenetics in Plants of Agronomic Importance: Fundamentals and Applications Raúl Alvarez-Venegas, Clelia De-la-Peña, Juan Armando Casas-Mollano, 2019-04-26 Over the past few decades chromatin modulation has emerged as an important regulator of gene expression This second edition provides detailed information on the epigenetic mechanisms in plants illustrating the value of this research in plants of agronomic importance It examines recent advances regarding plants epigenetic regulation in response to abiotic and biotic types of stress the epigenetic basis of plant immunity evolution and functions of plant histones epigenetic variation and plant breeding and epigenome editing and crop improvement The content is intended to promote the development of future biotechnologies to manipulate and selectively activate inhibit proteins and metabolic pathways to counter pathogens to treat important diseases and to increase crop productivity The development of new fields like epigenome editing and RNA epigenetics will certainly improve our understanding of currently known epigenetic modifications and their roles in e g host pathogen interactions crop productivity and in response to environmental stimuli This volume contains twelve new revised chapters written by an international team of experts on plant epigenetics and addresses the needs of researchers and professionals in the fields of agronomics crop breeding epigenetics plant biochemistry plant developmental biology and related disciplines

Sustainable Agriculture in the Era of the OMICs Revolution Channa S. Prakash, Sajid Fiaz, Muhammad Azhar Nadeem, Faheem Shehzad Baloch, Abdul Qayyum, 2023-01-01 Access to food with enough calories and nutrients is a fundamental right of every human The global population has exceeded 7 8 billion and is expected to pass 10 billion by 2055 Such rapid population increase presents a great challenge for food supply More grain production is needed to provide basic calories for humans Thus it is crucial to produce 60 110% more food to fill the gap between food production and the demand of future generations Meanwhile food nutritional values are of increasing interest to accommodate industrialized modern lives The instability of food production caused by global climate change presents another great challenge The global warming rate has become more rapid in recent decades with more frequent extreme climate change including higher temperatures drought and floods Our world faces various unprecedented scenarios such as rising temperatures which causes melting glaciers and the resulting various biotic and abiotic stresses ultimately leading to food scarcity In these circumstances it is of utmost importance to examine the genetic basis and extensive utilization of germplasm to develop climate resilient cultivars

through the application of plant breeding and biotechnological tools Future crops must adapt to these new and unpredictable environments Crop varieties resistant to biotic and abiotic stresses are also needed as plant disease insects drought high and low temperature stresses are expected to be impacted by climate change Thus we need a food production system that can simultaneously satisfy societal demands and long term development Since the Green Revolution in the 1960s farming has been heavily dependent on high input of nitrogen and pesticides This leads to environmental pollution which is not sustainable in the long run Therefore a new breeding scheme is urgently needed to enable sustainable agriculture including new strategies to develop varieties and crops that have high yield potential high yield stability and superior grain quality and nutrition while also using less consumption of water fertilizer and chemicals in light of environmental protection While we face these challenges we also have great opportunities especially with flourishing developments in omics technologies High quality reference genomes are becoming available for a larger number of species with some species having more than one reference genome The genome wide re sequencing of diverse varieties enables the identification of core and pan genomes An integration of omics data will enable a rapid and high throughput identification of many genes simultaneously for a relevant trait This will change our current research paradigm fundamentally from single gene analysis to pathway or network analysis This will also expand our understanding of crop domestication and improvement In addition with the knowledge gained from omics data in combination with new technologies like targeted gene editing we can breed new varieties and crops for sustainable agriculture

Crop Biofortification Adnan Noor Shah,Sajid Fiaz,Muhammad Aslam,Javed Iqbal,Abdul Qayyum,2025-03-10 Develop more nutritious crops to aid in the fight against world hunger with this timely volume One in nine people worldwide suffer from hunger or food scarcity Massively increasing food production is one of the most urgent scientific projects in the modern world particularly as a changing climate places increasing pressure on the global food supply and on sustainable food production processes Biofortification is a process in which plant breeding improved agronomic practices and or modern biotechnology are employed to increase nutrient density of crops without sacrificing any of their desirable characteristics It s an essential tool in the global fight against hunger Crop Biofortification offers an up to the minute overview of this essential subject and its recent advances It covers all the latest methodologies and techniques deployed in biofortification as well as surveying plant responses to genetically induced biofortification and the effect of climate change on biofortified crops Designed to allow for the application of these techniques at the field level it s a significant contribution towards the search for a sustainable global food supply Crop Biofortification readers will also find Presentation of recent advances in omics particularly metabolomics which can decipher potential changes in plants caused by biofortification Detailed discussion of methods for increasing the nutritional content of edible plants to address specific nutritional deficiencies Contributions towards a road map for increasing global food production by 70% before the year 2050 Crop Biofortification is ideal for researchers policymakers and professionals interested in the potential biofortification of crop

plants as well as graduate and advanced undergraduate students in agronomy plant physiology plant breeding and genetics agricultural biotechnology and related fields

Plant Genetic Resources and Traditional Knowledge for Food

Security Romesh Kumar Salgotra, Bharat Bhushan Gupta, 2016-01-22 With exponentially increasing population across the globe and shrinking resources the concern of food security is looming large over the world community To catch up with the fierce pace of growth in all the sectors of development ensuring uninhibited availability of food resources is a prime agenda The growing global demand for food feed fiber and bio based renewable materials such as bio fuels is changing the conditions for genetic resources development and bio resource production worldwide The crucial role in ensuring food security is played by the agro based industries and enterprises Advances in plant genetic resources coupled with traditional knowledge of the local tribes and native practices facilitate achievement of food security

The Potato Genome

Swarup Kumar Chakrabarti, Conghua Xie, Jagesh Kumar Tiwari, 2017-12-26 This book describes the historical importance of potato *Solanum tuberosum* L potato genetic resources and stocks including *S. tuberosum* group Phureja DM1 3 516 R44 a unique doubled monoploid homozygous line used for potato genome sequencing It also discusses strategies and tools for high throughput sequencing sequence assembly annotation analysis repetitive sequences and genotyping by sequencing approaches Potato *Solanum tuberosum* L 2n 4x 48 is the fourth most important food crop of the world after rice wheat and maize and holds great potential to ensure both food and nutritional security It is an autotetraploid crop with complex genetics acute inbreeding depression and a highly heterozygous nature Further the book examines the recent discovery of whole genome sequencing of a few wild potato species genomes genomics in management and genetic enhancement of *Solanum* species new strategies towards durable potato late blight resistance structural analysis of resistance genes genomics resources for abiotic stress management as well as somatic cell genetics and modern approaches in true potato seed technology The complete genome sequence provides a better understanding of potato biology underpinning evolutionary process genetics breeding and molecular efforts to improve various important traits involved in potato growth and development

Omics Technologies and Crop Improvement Nouredine Benkeblia, 2014-10-14 Increased world population decreased water supply and climate change all put stresses on the global food supply An exploration of the challenges and possible solutions to improve yields of the main crops such as cereals roots tubers and grasses *Omics Technologies and Crop Improvement* reviews data on food sciences and omics The book covers modern omic technologies such as nutrigenomics and metagenomics It provides a detailed examination of how omics can help crop science and horticulture and introduces the benefits of using these technologies to increase crop yields and other features such as resistance and nutritional values The book highlights crop improvements such as increased yield drought resistance disease resistance and value added performance through a non transgenic format It explores how the different omics technologies especially the most recent ones proteomics metabolomics nutrigenomics ionomics and metagenomics would be used to

improve the quantitative and qualitative features of crop plants Topics covered include Advances in omics for improved fresh crops Transcriptome analyses on the drought response using drought tolerant near isogenic lines Metabolite profiling that reveals different effects of nitrogen amendments on vegetables Omics technology application to forage crops improvement Secondary metabolites and plant tissue culture RNAi technology and crop improvement Gene expression analysis methods with NGS data Web database resources and crops improvement Gene Expression Networks GEN in crops Specific crop improvement papaya wheat coffee potato and more With contributions from pioneering researchers from twelve countries the book presents a broad view of how omics would help crop science and horticulture meet the challenges of a shrinking global food supply for a burgeoning global population **PlantOmics: The Omics of Plant Science** Debmalaya

Barh, Muhammad Sarwar Khan, Eric Davies, 2015-03-18 PlantOmics The Omics of Plant Science provides a comprehensive account of the latest trends and developments of omics technologies or approaches and their applications in plant science Thirty chapters written by 90 experts from 15 countries are included in this state of the art book Each chapter describes one topic omics such as omics in model plants spectroscopy for plants next generation sequencing functional genomics cyto metagenomics epigenomics miRNAomics proteomics metabolomics glycomics lipidomics secretomics phenomics cytomics physiomics signalomics thiolomics organelle omics micro morphomics microbiomics cryobionomics nanotechnology pharmacogenomics and computational systems biology for plants It provides up to date information technologies and their applications that can be adopted and applied easily for deeper understanding plant biology and therefore will be helpful in developing the strategy for generating cost effective superior plants for various purposes In the last chapter the editors have proposed several new areas in plant omics that may be explored in order to develop an integrated meta omics strategy to ensure the world and earth s health and related issues This book will be a valuable resource to students and researchers in the field of cutting edge plant omics Modern Techniques for Agricultural Disease Management and Crop Yield Prediction

Pradeep, N., Kautish, Sandeep, Nirmala, C.R., Goyal, Vishal, Abdellatif, Sonia, 2019-08-16 Since agriculture is one of the key parameters in assessing the gross domestic product GDP of any country it has become crucial to transition from traditional agricultural practices to smart agriculture New agricultural technologies provide numerous opportunities to maximize crop yield by recognizing and analyzing diseases and other natural variables that may affect it Therefore it is necessary to understand how computer assisted technologies can best be utilized and adopted in the conversion to smart agriculture Modern Techniques for Agricultural Disease Management and Crop Yield Prediction is an essential publication that widens the spectrum of computational methods that can aid in agriculture disease management weed detection and crop yield prediction Featuring coverage on a wide range of topics such as soil and crop sensors swarm robotics and weed detection this book is ideally designed for environmentalists farmers botanists agricultural engineers computer engineers scientists researchers practitioners and students seeking current research on technology and techniques for agricultural diseases and

predictive trends

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Omics Applications In Crop Science**

In a world inundated with displays and the cacophony of instantaneous conversation, the profound power and psychological resonance of verbal art frequently disappear in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, set within the lyrical pages of **Omics Applications In Crop Science**, a interesting function of literary splendor that impulses with raw feelings, lies an remarkable journey waiting to be embarked upon. Published by a virtuoso wordsmith, that enchanting opus instructions viewers on an emotional odyssey, lightly revealing the latent possible and profound impact embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is key subjects, dissect their captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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