

Roberto Tuberosa - Andreas Graner
Emile Frison *Editors*

Genomics of Plant Genetic Resources

Volume 1. Managing, Sequencing and
Mining Genetic Resources

 Springer

Genomics Of Plant Genetic Resources Volume 1

Managing Sequencing And Mining Genetic Resources

Ronald J. Herring



Genomics Of Plant Genetic Resources Volume 1 Managing Sequencing And Mining Genetic Resources:

Genomics of Plant Genetic Resources Roberto Tuberosa, Andreas Graner, Emile Frison, 2016-09-18 Our lives and well being intimately depend on the exploitation of the plant genetic resources available to our breeding programs Therefore more extensive exploration and effective exploitation of plant genetic resources are essential prerequisites for the release of improved cultivars Accordingly the remarkable progress in genomics approaches and more recently in sequencing and bioinformatics offers unprecedented opportunities for mining germplasm collections mapping and cloning loci of interest identifying novel alleles and deploying them for breeding purposes This book collects 48 highly interdisciplinary articles describing how genomics improves our capacity to characterize and harness natural and artificially induced variation in order to boost crop productivity and provide consumers with high quality food This book will be an invaluable reference for all those interested in managing mining and harnessing the genetic richness of plant genetic resources **Genomics of**

Plant Genetic Resources Roberto Tuberosa, Andreas Graner, Emile Frison, 2013-11-08 Our lives and well being intimately depend on the exploitation of the plant genetic resources available to our breeding programs Therefore more extensive exploration and effective exploitation of plant genetic resources are essential prerequisites for the release of improved cultivars Accordingly the remarkable progress in genomics approaches and more recently in sequencing and bioinformatics offers unprecedented opportunities for mining germplasm collections mapping and cloning loci of interest identifying novel alleles and deploying them for breeding purposes This book collects 48 highly interdisciplinary articles describing how genomics improves our capacity to characterize and harness natural and artificially induced variation in order to boost crop productivity and provide consumers with high quality food This book will be an invaluable reference for all those interested in managing mining and harnessing the genetic richness of plant genetic resources **Genomics Based Approaches for**

Tropical Tree Improvement and Conservation Ani A. Elias, Yasodha Ramasamy, 2025-04-30 This book offers foundational knowledge to advance genomic approaches in forest tree improvement and genetic resource conservation The tropical tree breeding sector has fallen behind in genomic breeding not due to a lack of resources but rather a limited understanding and an underdeveloped genomic breeding pipeline While marker assisted selection MAS has been the preferred method for incorporating genomic data into breeding programs it primarily targets major genes overlooking minor gene effects This limitation makes MAS less effective for enhancing quantitative traits such as heartwood content The primary goal of statistical methodologies using whole genome information is to predict promising candidates for breeding advancement commercialization while efficiently managing resources such as land labor and most critically time Given the long rotation period of forest tree crops the ability to identify select and modify genotypes with high heritability for economically valuable traits within a shorter timeframe marks a significant advancement in breeding This book provides comprehensive guidelines on leveraging genomic data including pathogenomics to breed resilient future ready trees and manage populations effectively

To reinforce these guidelines the book presents case studies on species such as *Tectona grandis* *Santalum album* *Casuarina* *Shorea* *Artocarpus* tropical and sub tropical pines and tropical fruit trees Additionally the book explores broader applications of genetic data including timber tracing and the conservation of germplasm while minimizing genetic redundancy This book will be a valuable resource for tropical tree breeders and researchers equipping them with the methods and tools needed to adopt advanced genomic breeding Additionally students and scholars will benefit from the comprehensive information it provides enhancing their understanding of modern breeding techniques

Applied Plant Genomics and Biotechnology

Palmiro Poltronieri, Yiguo Hong, 2015-01-27 Applied plant genomics and biotechnology reviews the recent advancements in the post genomic era discussing how different varieties respond to abiotic and biotic stresses investigating epigenetic modifications and epigenetic memory through analysis of DNA methylation states applicative uses of RNA silencing and RNA interference in plant physiology and in experimental transgenics and plants modified to produce high value pharmaceutical proteins The book provides an overview of research advances in application of RNA silencing and RNA interference through Virus based transient gene expression systems Virus induced gene complementation VIGC Virus induced gene silencing Sir VIGS Mr VIGS Virus based microRNA silencing VbMS and Virus based RNA mobility assays VRMA RNA based vaccines and expression of virus proteins or RNA and virus like particles in plants the potential of virus vaccines and therapeutics and exploring plants as factories for useful products and pharmaceuticals are topics wholly deepened The book reviews and discuss Plant Functional Genomic studies discussing the technologies supporting the genetic improvement of plants and the production of plant varieties more resistant to biotic and abiotic stresses Several important crops are analysed providing a glimpse on the most up to date methods and topics of investigation The book presents a review on current state of GMO the cisgenesis derived plants and novel plant products devoid of transgene elements discuss their regulation and the production of desired traits such as resistance to viruses and disease also in fruit trees and wood trees with long vegetative periods Several chapters cover aspects of plant physiology related to plant improvement cytokinin metabolism and hormone signaling pathways are discussed in barley PARP domain proteins involved in Stress Induced Morphogenetic Response regulation of NAD signaling and ROS dependent synthesis of anthocyanins Apple allergen isoforms and the various content in different varieties are discussed and approaches to reduce their presence Euphorbiaceae castor bean cassava and Jathropa are discussed at genomic structure their diseases and viruses and methods of transformation Rice genomics and agricultural traits are discussed and biotechnology for engineering and improve rice varieties Mango topics are presented with an overview of molecular methods for variety differentiation and aspects of fruit improvement by traditional and biotechnology methods Oilseed rape is presented discussing the genetic diversity quality traits genetic maps genomic selection and comparative genomics for improvement of varieties Tomato studies are presented with an overview on the knowledge of the regulatory networks involved in flowering methods applied to study the tomato genome wide DNA methylation its regulation

by small RNAs microRNA dependent control of transcription factors expression the development and ripening processes in tomato genomic studies and fruit modelling to establish fleshy fruit traits of interest the gene reprogramming during fruit ripening and the ethylene dependent and independent DNA methylation changes provides an overview on the ongoing projects and activities in the field of applied biotechnology includes examples of different crops and applications to be exploited reviews and discusses Plant Functional Genomic studies and the future developments in the field explores the new technologies supporting the genetic improvement of plants

Achieving sustainable cultivation of tomatoes Dr A. K. Mattoo, Prof. A. K. Handa, 2017-03-31 Discusses developments in good agricultural practice from crop growth models to improved water and nutrition management Reviews advances in understanding plant physiology and genetic diversity as well as their contribution to improvements in breeding Summarises recent research on diseases and pests as well as their control through developing disease resistant varieties or integrated weed management

Molecular Genetics and Genomics Tools in Biodiversity Conservation Ashwani Kumar, Baharul Choudhury, Selvadurai Dayanandan, Mohammed Latif Khan, 2022-02-01 This book provides insight into the use of molecular and genomic techniques to the study of populations of critically important species at various geographical scales It delves into a wide range of issues relevant to biodiversity conservation such as population differentiation landscape genomics ecological interactions phylogenetics phylogeography metagenomics molecular methods and data processing The current rate of biodiversity loss is unprecedented and valuable genetic resources are being lost at an alarmingly rate Effective strategies to conserve these genetic resources are essential to maintain healthy ecosystems with inter dependent species The book is an invaluable resource for training undergraduate and graduate students postdoctoral fellows and for young researchers This book is particularly useful for the policy makers and academics who want to learn about important concepts in population and conservation genetics and genomics

THE STATE OF THE WORLD'S FOREST GENETIC RESOURCES Food and Agriculture Organization of the United Nations, 2018-05-25 The publication was prepared based on information provided by 86 countries outcomes from regional and subregional consultations and commissioned thematic studies It includes an overview of definitions and concepts related to Forest Genetic Resources FGR and a review of their value a description of the main drivers of changes the presentation of key emerging technologies an analysis of the current status of FGR conservation use and related developments recommendations addressing the challenges and needs By the FAO Commission on Genetic Resources for Food and Agriculture

Enhancing Crop Genepool Use Nigel Maxted, M Ehsan Dulloo, Brian V Ford-Lloyd, 2016-05-31 Maintaining food security in the face of human population increase and climate change is one of the critical challenges facing us in the 21st Century Utilisation of the full range of agrobiodiversity will be a necessary tool in addressing this challenge In this book a team of international contributors review all aspects of utilization and conservation of crop wild relative CWR and landrace LR diversity as a basis for crop improvement and future food security This book will appeal to a wide array of specialists and postgraduate students

such as those working in the fields of agrobiodiversity conservation and use conservation ecology botany genetics plant breeding and agriculture **Genomic Designing of Climate-Smart Fruit Crops** Chittaranjan Kole,2020-03-30 This edited book provides a comprehensive overview of modern strategies in fruit crop breeding in the era of climate change and global warming It demonstrates how advances in plant molecular and genomics assisted breeding can be utilized to produce improved fruit crops with climate smart traits Agriculture is facing a number of challenges in the 21st century as it has to address food nutritional energy and environmental security Future fruit varieties must be adaptive to the varying scenarios of climate change produce higher yields of high quality food feed and fuel and have multiple uses To achieve these goals it is imperative to employ modern tools of molecular breeding genetic engineering and genomics for precise plant breeding to produce designed fruit crop varieties This book is of interest to scientists working in the fields of plant genetics genomics breeding biotechnology and in the disciplines of agronomy and horticulture **Bioinformatics for Plant Research and Crop Breeding** Jen-Tsung Chen,2024-07-22 Explore and advance bioinformatics and systems biology tools for crop breeding programs in this practical resource for researchers Plant biology and crop breeding have produced an immense amount of data in recent years from genomics to interactome and beyond Bioinformatics tools which aim at analyzing the vast quantities of data produced by biological research and processes have developed at a rapid pace to meet the challenges of this vast data trove The resulting field of bioinformatics and systems biology is producing increasingly rich and transformative research Bioinformatics for Plant Research and Crop Breeding offers an overview of this field its recent advances and its wider applications Drawing on a range of analytical and data science tools its foundation on an in silico platform acquired multi omics makes it indispensable for scientists and researchers alike It promises to become ever more relevant as new techniques for generating and organizing data continue to transform the field Bioinformatics for Plant Research and Crop Breeding readers will also find A focus on emerging trends in plant science sustainable agriculture and global food security Detailed discussion of topics including plant diversity plant stresses nanotechnology in agriculture and many others Applications incorporating artificial intelligence machine learning deep learning and more Bioinformatics for Plant Research and Crop Breeding is ideal for researchers and scientists interested in the potential of OMICs and bioinformatic tools to aid and develop crop improvement programs **Cotton Precision Breeding** Mehboob-ur-Rahman,Yusuf Zafar,Tianzhen Zhang,2021-06-08 Cotton the most important natural fiber crop has been improved by conventional breeding largely through planned hybridization of different cotton genotypes since the discovery of Mendelian genetics All these efforts resulted in the development of resilient high yielding cotton varieties However the progress through conventional breeding procedures is slow because of long lag periods for developing a variety little control over the new genetic combinations unwanted traits and lack of foolproof performance testing system Genomic assays discovered over the last two decades have made it possible to understand the language of the genome by associating the genes with specific

traits Together with the more recently established gene editing tools like CRISPR Cas9 the cotton genome can be tailored much more precisely than ever before In this regard genetic information has been harnessed through i sequencing of the progenitor and cultivated cotton species ii ongoing mega pan genome sequencing projects iii genetic and physical mapping and iv introgression of genes from alien sources that resulted in the development of resilient cotton cultivars These technologies have been deployed or are attempting to overcome the challenges of water shortage excessive heat in most cotton growing regions infectious diseases and infestation of insect pests as well as rising production cost for sustainable cotton production beyond 2030 In this book new knowledge generated by the cotton research community and its application for developing resilient cotton are comprehensively summarized This book contributed by well known cotton researchers is a timely collection of the challenges and successes of precision cotton breeding in a changing environment Bioinformatics in Rice Research Manoj Kumar Gupta, Lambodar Behera, 2021-09-24 This book provides an up to date review of classic and advanced bioinformatics approaches and their utility in rice research It summarizes databases and tools for analyzing DNA proteins and gene expression profiles mapping genetic variations annotation of protein and RNA molecules phylogenetic analysis and pathway enrichment In addition it presents high throughput technologies that are widely used to provide deep insights into the genetic architecture of important traits in the rice genome The book subsequently discusses techniques for identifying RNA protein DNA protein interactions and molecular markers including SNP and microsatellites in the contexts of rice breeding and genetics Lastly it explores various tools that are used to identify and characterize non coding RNA in rice and their potential role in rice research

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 Borrás 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

Food Processing Technology P.J. Fellows, 2022-06-18 Food Processing Technology Principles and Practice Fifth Edition includes emerging trends and developments in food processing The book has been fully updated to provide comprehensive up to date technical information For each food processing unit operation theory and principles are first described followed by equipment used commercially and its operating conditions the effects of the operation on micro organisms and the nutritional and sensory qualities of the foods concerned Part I describes basic concepts Part II describes operations that take place at ambient temperature Part III describes processing using heat Part IV describes processing by removing heat and Part V describes post processing operations This book continues to be the most comprehensive reference in the field covering all processing unit operations in a single volume The title brings key terms and definitions sample problems recommended further readings and illustrated processes Presents current trends on food sustainability environmental considerations changing consumer choices reduced packaging and energy use and functional and healthy plant based foods Includes highly illustrated line drawings and or photographs to show the principles of equipment operation and or examples of equipment that is used commercially Contains worked examples of common calculations

Next-generation Sequencing and Agriculture Philipp Bayer, David Edwards, 2022-07-12 Genome sequencing has become a basic tool of plant and animal breeding Reduced costs have allowed the sequencing of thousands of plant lines or cultivars leading to previously unobtainable insights into genetic impacts during breeding and generating large numbers of novel candidate breeding genes This book summarizes the impacts that the genome sequencing revolution has had on agriculture with reference to applications across species and locations It explains new techniques and their use in understanding epigenetics breeding and conservation It is a useful resource for scientists wanting to learn how different fields of agriculture have adapted novel genome sequencing technologies to their requirements and for those wanting to transfer technologies and lessons learned from one field of agriculture to another This book is a useful resource for students and researchers in biotechnology genetics genomics and breeding

The Political Economy of India's Economic Development: 5000BC to 2022AD, Volume I Sangaralingam Ramesh, 2023-10-14 This book the first of two volumes explores

India's economic development from 5000BC through to the India's independence period from 1947AD to 2022AD. The specific characteristics of economic development in India are examined to help determine development paths India can pursue to create sustainable development in the 21st century. The transition from the primary sector to the secondary sector through the process of industrialisation and in turn the move towards the services sector is discussed in relation to climate change and the pressure on resources posed by population growth. This book aims to contextualise India's economic development within the political economy of trade, sustainable development and culture with a particular focus on the institutions that have emerged in the Indian sub-continent since 5000BC. It will be relevant to students and researchers interested in economic history, development economics and the political economy. **Plant Breeding Reviews, Volume 46**, 2022-12-22

Plant Breeding Reviews presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. Many of the crops widely grown today stem from a very narrow genetic base; understanding and preserving crop genetic resources is vital to the security of food systems worldwide. The emphasis of the series is on methodology, a fundamental understanding of crop genetics and applications to major crops. **Genomic Designing for Abiotic Stress Resistant Cereal Crops** Chittaranjan Kole, 2021-08-31. This book presents abiotic stresses that cause crop damage in the range of 6-20%. Understanding the interaction of crop plants to the abiotic stresses caused by heat, cold, drought, flooding, submergence, salinity, acidity, etc. is important to develop resistant crop varieties. Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding, transgenics, genomic assisted breeding and the recently emerging genome editing for developing resistant varieties in cereal crops is imperative for addressing FPNEE (food, health, nutrition, energy and environment) security. Whole genome sequencing of these crops followed by genotyping by sequencing has facilitated precise information about the genes conferring resistance useful for gene discovery, allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to abiotic stresses. The nine chapters, each dedicated to a cereal crop in this volume, are deliberate on different types of abiotic stresses and their effects on and interaction with crop plants; enumerate on the available genetic diversity with regard to abiotic stress resistance among available cultivars; illuminate on the potential gene pools for utilization in interspecific gene transfer; are brief on the classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts; elucidate on the success stories of genetic engineering for developing abiotic stress resistant crop varieties; discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker assisted introgression into elite varieties; enunciate on different emerging genomics aided techniques including genomic selection, allele mining, gene discovery and gene pyramiding for developing adaptive crop varieties with higher quantity and quality and also elaborate some case studies on genome editing focusing on specific genes for generating abiotic stress resistant crops.

Advances in Artificial Intelligence Applications in Industrial and Systems Engineering Waldemar

Karwowski,Vincent Duffy,Gavriel Salvendy,2025-08-15 Comprehensive guide offering actionable strategies for enhancing human centered AI efficiency and productivity in industrial and systems engineering through the power of AI Advances in Artificial Intelligence Applications in Industrial and Systems Engineering is the first book in the Advances in Industrial and Systems Engineering series offering insights into AI techniques challenges and applications across various industrial and systems engineering ISE domains Not only does the book chart current AI trends and tools for effective integration but it also raises pivotal ethical concerns and explores the latest methodologies tools and real world examples relevant to today s dynamic ISE landscape Readers will gain a practical toolkit for effective integration and utilization of AI in system design and operation The book also presents the current state of AI across big data analytics machine learning artificial intelligence tools cloud based AI applications neural based technologies modeling and simulation in the metaverse intelligent systems engineering and more and discusses future trends Written by renowned international contributors for an international audience Advances in Artificial Intelligence Applications in Industrial and Systems Engineering includes information on Reinforcement learning computer vision and perception and safety considerations for autonomous systems AS NLP topics including language understanding and generation sentiment analysis and text classification and machine translation AI in healthcare covering medical imaging and diagnostics drug discovery and personalized medicine and patient monitoring and predictive analysis Cybersecurity covering threat detection and intrusion prevention fraud detection and risk management and network security Social good applications including poverty alleviation and education environmental sustainability and disaster response and humanitarian aid Advances in Artificial Intelligence Applications in Industrial and Systems Engineering is a timely essential reference for engineering computer science and business professionals worldwide **The Profit of the**

Earth Courtney Fullilove,2017-04-18 While there is enormous public interest in biodiversity food sourcing and sustainable agriculture romantic attachments to heirloom seeds and family farms have provoked misleading fantasies of an unrecoverable agrarian past The reality as Courtney Fullilove shows is that seeds are inherently political objects transformed by the ways they are gathered preserved distributed regenerated and improved In The Profit of the Earth Fullilove unearths the history of American agricultural development and of seeds as tools and talismans put in its service Organized into three thematic parts The Profit of the Earth is a narrative history of the collection circulation and preservation of seeds Fullilove begins with the political economy of agricultural improvement recovering the efforts of the US Patent Office and the nascent US Department of Agriculture to import seeds and cuttings for free distribution to American farmers She then turns to immigrant agricultural knowledge exploring how public and private institutions attempting to boost midwestern wheat yields drew on the resources of willing and unwilling settlers Last she explores the impact of these cereal monocultures on biocultural diversity chronicling a fin de si cle Ohio pharmacist s attempt to source Purple Coneflower from the diminishing prairie Through these captivating narratives of improvisation appropriation and loss Fullilove explores contradictions

between ideologies of property rights and common use that persist in national and international development ultimately challenging readers to rethink fantasies of global agriculture s past and future

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