

Biotechnology in Agriculture and Forestry

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H. Lörz and J.M. Widholm

55 Molecular Marker Systems in Plant Breeding and Crop Improvement

Edited by H. Lörz and G. Wenzel

Molecular Marker Systems In Plant Breeding And Crop Improvement

Deka, Pradip Chandra



Molecular Marker Systems In Plant Breeding And Crop Improvement:

Molecular Marker Systems in Plant Breeding and Crop Improvement Horst Lörz, Gerhard Wenzel, 2008-11-01
Successful release of new and better crop varieties increasingly requires genomics and molecular biology This volume presents basic information on plant molecular marker techniques from marker location up to gene cloning The text includes a description of technical approaches in genome analysis such as comparison of marker systems positional cloning and array techniques in 19 crop plants A special section focuses on converting this knowledge into general and specific breeding strategies particularly in relation to biotic stress Theory and practice of marker assisted selection for QTL gene pyramiding and the future of MAS are summarized and discussed for maize wheat and soybean Furthermore approaches in silviculture on the examples of Fagus Populus Eucalyptus Picea and Abies are presented The volume ends with a comprehensive review of the patents relevant for using molecular markers and marker assisted selection *Molecular Marker Systems in Plant Breeding and Crop Improvement* Horst Lörz, Gerhard Wenzel, 2005 Successful release of new and better crop varieties increasingly requires genomics and molecular biology This volume presents basic information on plant molecular marker techniques from marker location up to gene cloning The text includes a description of technical approaches in genome analysis such as comparison of marker systems positional cloning and array techniques in 19 crop plants A special section focuses on converting this knowledge into general and specific breeding strategies particularly in relation to biotic stress Theory and practice of marker assisted selection for QTL gene pyramiding and the future of MAS are summarized and discussed for maize wheat and soybean Furthermore approaches in silviculture on the examples of Fagus Populus Eucalyptus Picea and Abies are presented The volume ends with a comprehensive review of the patents relevant for using molecular markers and marker assisted selection **Molecular Marker Systems in Plant Breeding and Crop Improvement** H. Lorz (ed), 2018 **Molecular Markers and Crop Improvement** Nand K. Sharma, 2025-09-28 This book covers the fundamentals of plant molecular marker techniques from marker location to gene cloning Molecular marker technology has brought about significant changes in plant breeding and agriculture Numerous molecular marker types have been employed in recent decades for a variety of tasks including genetic resource characterization marker assisted selection mapping etc Though the limited number of markers that could be tested at once has resulted in time consuming and expensive results these have produced effective genotyping Recent advancements in molecular marker techniques have opened up new possibilities for crop improvement These include the development of high throughput genotyping platforms genotyping by sequencing and the release of genome sequences of significant crop plants In addition functional molecular markers association mapping methodologies and genotype by sequencing have unlocked up new possibilities for the identification of new genetic resources lines that can accelerate crop breeding programs for higher productivity higher nutritional quality and tolerance to a range of biotic and abiotic stresses Technical methods for genome analysis such as array techniques positional

cloning and marker system comparison are described in the text This book discusses the use of molecular technologies in crop improvement going forward reviewing recent developments as well as past accomplishments All the significant and pertinent research in the field is collected in one volume A comprehensive explanation of crop molecular markers is given along with conclusions regarding the method s worth potential drawbacks and challenges for future use in different crops In addition a critical analysis and discussion of the existing literature are conducted crop by crop This is a very thorough manual for academics researchers students and anybody else interested in using molecular markers as a crop tool

Molecular Plant Breeding and Genome Editing Tools for Crop Improvement Deka, Pradip Chandra,2020-08-07 Plant breeders have used mutagenic agents to create variability for their use in crop improvement However application of mutagenic agents has its own drawbacks such as non specificity and random nature simultaneous effect on large numbers of genes and induction of chromosomal aberrations To overcome these limitations several genome editing systems have been developed with the aid of cutting edge technology rooted in the expertise of several research fields Molecular Plant Breeding and Genome Editing Tools for Crop Improvement is a pivotal reference source that provides an interdisciplinary approach to crop breeding through genetics Featuring coverage of a broad range of topics including software molecular markers and plant variety identification this book is ideally designed for agriculturalists biologists engineers advocates policymakers researchers academicians and students

Plant Breeding Technology Zeba Khan,2024-12-26 This book highlights the latest and most exciting technological tools for plant breeding that are becoming the staple of all crop improvement programs Using case studies and an evidence based approach to examine the current status of each technique the book discusses the challenges so far uncovered and future trends The book presents a systematic guide to various genomics approaches deployed for trait discovery and improvement in crop species The chapters comprehensively cover each application its advantages and disadvantages and its potential for improvement supported by illustrative examples

Plant Breeding from Laboratories to Fields Sven Bode Andersen,2013-05-22 Breeding of crop plants to make them more adapted to human agricultural systems has been on going during domestication the last 10 000 years However only recently with the invention of the Mendelian principles of genetics and the subsequent development of quantitative genetics during the twentieth century has such genetic crop improvement become based on a general theory During the last 50 years plant breeding has entered a molecular era based on molecular tools to analyse DNA RNA and proteins and associate such molecular results with plant phenotype These marker trait associations develop fast to enable more efficient breeding However they still leave a major part of breeding to be performed through selection of phenotypes using quantitative genetic tools The ten chapters of this book illustrate this development

Industrial Crops Improvement Nitish Kumar,2025-01-24 This book explores the different conventional and biotechnological techniques for enhancing the productivity of industrial crops The growth of the industrial crop sector has become a widespread global phenomenon that helps rural livelihoods and

propels economic development Contrary to staple crops industrial crops are cultivated with the intention of being sold for a high profit Industrial crops are a crucial component of plans to increase food security because they offer the required stability during periods of economic or climatic crises In order to maintain their livelihood and food security many farm households balance the advantages and disadvantages of producing food crops and industrial crops Avoiding land use rivalry with crops grown for food and feed production is crucial when considering growing industrial crops on agricultural soils The past several years have seen a rise in the awareness of scholars and decision makers regarding the immediate and long term effects of climatic variables on economic food security social and political results In order to sustain food production with more climate resilient crops for future generations genetic variety both natural and artificial is crucial Therefore addressing the problem of finding a compromise between increasing crop production under a specific set of conditions and reducing the chance of crop failure when conditions change is important and difficult An assortment of meteorological conditions is used to grow industrial crops Many are subsistence farmers who run extremely tiny farms with very little agricultural input to produce products that can be sold It is a significant problem to preserve the variety of these crops and handle all crop culture related difficulties By offering the knowledge required to minimize the dangers of industrial crop breeding through managing genetic diversity the author believe that this book will primarily address a need that has not yet been met in this and other grower groups

Genomics-Assisted Crop Improvement Rajeev K. Varshney,Roberto Tuberosa,2007-12-13 This superb volume provides a critical assessment of genomics tools and approaches for crop breeding Volume 1 presents the status and availability of genomic resources and platforms and also devises strategies and approaches for effectively exploiting genomics research Volume 2 goes into detail on a number of case studies of several important crop and plant species that summarize both the achievements and limitations of genomics research for crop improvement

Molecular Techniques in Crop Improvement Shri Mohan Jain,D.S. Brar,2002-04-30 This book provides comprehensive information on the latest tools and techniques of molecular genetics and their applications in crop improvement It thoroughly discusses advanced techniques used in molecular markers QTL mapping marker assisted breeding and molecular cytogenetics

Molecular Marker Techniques Nitish Kumar,2023-06-29 This edited book covers the applications of molecular markers in the genetic improvement of crop plants Recent advances in molecular marker techniques such as the development of high throughput genotyping platforms marker assisted selection and non coding RNA based markers have been discussed Essential information is provided on functional markers genotype by sequencing and association mapping methodologies that can facilitate accelerated crop breeding programs for increased yield high nutritional quality and tolerance to a variety of abiotic and biotic stresses This volume presents basic information on molecular marker techniques from marker location up to gene cloning The book includes a description of technical approaches in genome analysis such as comparison of marker systems positional cloning and array techniques This book is of interest to teachers researchers and plant breeders The book also

serves as additional reading material for undergraduate and graduate students of agriculture horticulture and forestry

Crop Improvement Siti Nor Akmar Abdullah, Ho Chai-Ling, Carol Wagstaff, 2017-10-17 The book covers the latest development in the biosciences field covering key topics in crop improvement including omic approaches to improving sustainable crop production advancement in marker technology strategies in genetic manipulation crop quality and sustainability and plant microbe interaction detailing on proven technologies to address critical issue for agricultural sustainability which are beneficial for researchers and students The book also includes aspects of preserving crops after harvest as this is a key factor in promoting sustainable crop quality in terms of addressing waste choosing the appropriate packaging and moving crops through the food and industrial supply chain An important strategy to overcome the challenges in providing food for the world population in a sustainable manner is through concerted efforts by crop scientists to embrace new technologies in increasing yield quality and improving food safety while minimizing adverse environmental impact of the agricultural activities Most of the proven molecular and genetic technologies in crop science have been tested and verified in model plants such as Arabidopsis and tomato The technologies when deployed on various plant species of importance for human nutrition and industrial applications including cereals vegetables fruits herbs fibre and oil crops face many challenges not only due to their longer life cycle but many other physiological and environmental factors affecting yield and quality of plant products Furthermore major impacts on crop production due to catastrophic diseases and global climate change needs urgent and innovative solutions Therefore a systematic approach employing various leading edge technologies that enable the functional elucidation of key pathway genes via omics tools genome wide association with desired phenotypes and development of cost effective and practicable molecular tools for selection is vital The International Conference on Crop Improvement was held to address these and other pressing issues This volume summarizes the keynote presentations from the meeting and highlights additional discussions that are critical to crop improvement in a challenging time **Achieving sustainable cultivation of grain legumes Volume 2** Dr Shoba Sivasankar, Dr David Bergvinson, Dr Pooran Gaur, Dr Shiv Kumar Agrawal, Dr Steve Beebe, Dr Manuele Tamò, 2018-01-18 Detailed coverage of particular grain legumes Chapters on each key aspect of grain legume cultivation improved varieties and advances in cultivation techniques International range of authors with specific expertise in each grain legume *The Peach* Desmond R. Layne, Daniele Bassi, 2008 Summarizes our knowledge of peaches and their production worldwide and includes a colour plates section This book includes chapters which address botany and taxonomy breeding and genetics of cultivars and rootstocks propagation physiology and planting systems crop and pest management and postharvest physiology **Advances in Plant Breeding Strategies: Agronomic, Abiotic and Biotic Stress Traits** Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson, 2016-03-29 The basic concept of this book is to examine the use of innovative methods augmenting traditional plant breeding towards the development of new crop varieties under different environmental conditions to achieve sustainable food production This book consists of two volumes

Volume 1 subtitled Breeding Biotechnology and Molecular Tools and Volume 2 subtitled Agronomic Abiotic and Biotic Stress Traits This is volume 2 which contains 18 chapters highlighting breeding strategies for specific plant traits including improved nutritional and pharmaceutical properties as well as enhanced tolerance to insects diseases drought salinity and temperature extremes expected under predicted global climate change *Cereals and Millets* Chittaranjan Kole,2006-10-28 Genome Mapping and Molecular Breeding in Plants presents the current status of the elucidation and improvement of plant genomes of economic interest The focus is on genetic and physical mapping positioning cloning monitoring of desirable genes by molecular breeding and the most recent advances in genomics The series comprises seven volumes Cereals and Millets Oilseeds Pulses Sugar and Tuber Crops Fruits and Nuts Vegetables Technical Crops and Forest Trees Cereals and millets form the leading group of field crops providing staple food for most of the earth s population This volume with contributions by 27 eminent scientists includes chapters on rice wheat maize barley oats rye sorghum pearl millet foxtail millet and finger millet The emphasis is on advanced research on the major crops including the model plants maize and rice as well as on future road maps of genomic research for the less often considered but equally deserving cereals and millets

Transgenic Crops V Eng Chong Pua,Michael R. Davey,2007-08-16 The status of crop biotechnology before 2001 was reviewed in Transgenic Crops I III but recent advances in plant cell and molecular biology have prompted the need for new volumes This volume is devoted to fruit trees and beverage crops It presents the current knowledge of plant biotechnology as an important tool for crop improvement and includes up to date methodologies **Cereal Genomics II** Pushpendra K. Gupta,Rajeev Varshney,2013-05-29 Cereal Genomics published in 2004 served the purpose of collecting all information on cereal genomics at one place and was well received by the cereal workers through out the world The last eight years have witnessed significant advancement in the field of cereal genomics For instance high density genetic maps physical maps QTL maps and even draft genome sequence have become available for several cereal species Furthermore the next generation sequencing NGS technologies have revolutionized genomics research so that it is possible now to sequence genomes of hundreds or thousands of accessions of an individual cereal crop Significant amounts of data generated using these NGS technologies created a demand for computational tools to analyse this massive data In view of these developments the Editors realised that there was a need to have an updated volume on the present status and future prospects of cereal genomics These developments related to technology and the toolshave been documented in this volume thus supplementing our earlier edited volume Cereal Genomics Cereal Genomics II discusses advances in cereal genomics research made during the last eight years and presents state of art cereal genomics and its utilization involving both basic research such as comparative genomics and functional genomics and applied research like QTL mapping and molecular breeding *Plant Biotechnology for Sustainable Production of Energy and Co-products* Peter N. Mascia,Jürgen Scheffran,Jack M. Widholm,2010-09-15 This book is a collection of chapters concerning the use of biomass for the sustainable production of

energy and chemicals an important goal that will help decrease the production of greenhouse gases to help mitigate global warming provide energy security in the face of dwindling petroleum reserves improve balance of payment problems and spur local economic development Clearly there are ways to save energy that need to be encouraged more These include more use of energy sources such as among others manure in anaerobic digesters waste wood in forests as fuel or feedstock for cellulosic ethanol and conservation reserve program CRP land crops that are presently unused in the US The use of biofuels is not new Rudolf Diesel used peanut oil as fuel in the first engines he developed Chap 8 and ethanol was used in the early 1900s in the US as automobile fuel Songstad et al 2009 Historical perspective of biofuels learning from the past to rediscover the future In Vitro Cell Dev Biol Plant 45 189 192 Brazil now produces enough sugar cane ethanol to make up about 50% of its transportation fuel needs Chap 4 The next big thing will be cellulosic ethanol At present there is also the use of Miscanthus x giganteus as fuel for power plants in the UK Chap 2 bagasse sugar cane waste to power sugar cane mills Chap 4 and waste wood and sawdust to power sawmills Chap 7

Advancement in Crop Improvement Techniques Narendra Tuteja, Renu Tuteja, Nishat Passricha, Shabnam Saifi, 2020-06-13 Advancement in Crop Improvement Techniques presents updates on biotechnology and molecular biological approaches which have contributed significantly to crop improvement The book discusses the emerging importance of bioinformatics in analyzing the vast resources of information regarding crop improvement and its practical application and utilization Throughout this comprehensive resource emphasis is placed on various techniques used to improve agricultural crops providing a common platform for the utility of these techniques and their combinations Written by an international team of contributors this book provides an in depth analysis of existing tools and a framework for new research Reviews techniques used for crop improvement from selection and crossing over to microorganismal approaches Explores the role of conventional biotechnology in crop improvement Summarizes the combined approaches of cytogenetics and biotechnology for crop improvement including the importance of molecular techniques in this process Focuses on the emerging role of bioinformatics for crop improvement

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