

B.D. Singh - A.K. Singh

Marker-Assisted Plant Breeding: Principles and Practices

Marker Assisted Plant Breeding Principles And Practices

**Linghe Zeng, Fred Bourland, Iain W.
Wilson**



Marker Assisted Plant Breeding Principles And Practices:

Marker-Assisted Plant Breeding: Principles and Practices B.D. Singh,A.K. Singh,2015 Marker assisted plant breeding involves the application of molecular marker techniques and statistical and bioinformatics tools to achieve plant breeding objectives in a cost effective and time efficient manner This book is intended for beginners in the field who have little or no prior exposure to molecular markers and their applications but who do have a basic knowledge of genetics and plant breeding and some exposure to molecular biology An attempt has been made to provide sufficient basic information in an easy to follow format and also to discuss current issues and developments so as to offer comprehensive coverage of the subject matter The book will also be useful for breeders and research workers as it offers a broad range of up to the year information including aspects like the development of different molecular markers and their various applications In the first chapter the field of marker assisted plant breeding is introduced and placed in the proper perspective in relation to plant breeding The next three chapters describe the various molecular marker systems while mapping populations and mapping procedures including high throughput genotyping are discussed in the subsequent five chapters Four chapters are devoted to various applications of markers e g marker assisted selection genomic selection diversity analysis finger printing and positional cloning In closing the last two chapters provide information on relevant bioinformatics tools and the rapidly evolving field of phenomics

Marker-Assisted Plant Breeding: Principles and Practices B.D. Singh,A.K. Singh,2015-06-26 Marker assisted plant breeding involves the application of molecular marker techniques and statistical and bioinformatics tools to achieve plant breeding objectives in a cost effective and time efficient manner This book is intended for beginners in the field who have little or no prior exposure to molecular markers and their applications but who do have a basic knowledge of genetics and plant breeding and some exposure to molecular biology An attempt has been made to provide sufficient basic information in an easy to follow format and also to discuss current issues and developments so as to offer comprehensive coverage of the subject matter The book will also be useful for breeders and research workers as it offers a broad range of up to the year information including aspects like the development of different molecular markers and their various applications In the first chapter the field of marker assisted plant breeding is introduced and placed in the proper perspective in relation to plant breeding The next three chapters describe the various molecular marker systems while mapping populations and mapping procedures including high throughput genotyping are discussed in the subsequent five chapters Four chapters are devoted to various applications of markers e g marker assisted selection genomic selection diversity analysis finger printing and positional cloning In closing the last two chapters provide information on relevant bioinformatics tools and the rapidly evolving field of phenomics

Molecular Plant Breeding B.D. Singh,N.S. Shekhawat,2017-10-01 The discipline of plant breeding has undergone transformation due to the assimilation of the rapid developments in molecular biology The existing books on plant breeding deal mainly with the classical approaches while specialized books on molecular approaches usually

lack discussion of the classical methods The book Molecular Plant Breeding attempts to present the complete picture of plant breeding ranging from the classical to the molecular approaches applied to crop improvement The book is divided into four sections Classical Plant Breeding Transgenic technology Molecular Markers and Miscellaneous The first section deals with the classical plant breeding and is divided into eight chapters The second section has four chapters and describes transgenic technology The third section discusses various aspects of molecular markers and is spread over three chapters The final section has a single chapter dealing with variety release seed multiplication and intellectual property rights This book is designed primarily for graduate students viz B Sc agriculture and B Sc science students with botany as one of the subjects who would get their first exposure to plant breeding It would also be useful for the post graduate students especially in botany and to teachers of the subject The book is written in simple and easy to understand language Illustrations and photographs have been provided wherever they were expected to facilitate comprehension of the subject under discussion

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 Genomics for Sustainable Agriculture Ram Lakhan Singh, Sukanta Mondal, Akarsh Parihar, Pradeep Kumar Singh, 2022-06-01 This book collates the basic and advanced concepts of plant biotechnology and genomics along with the future trends It discusses the combination of conventional breeding techniques with genomic tools and approaches leading to a new genomics based plant breeding technology supporting crop plants that respond better to biotic and abiotic stress and pathogen attacks Plant genomics play an important role in developing more efficient plant cultivars which are essential for the neo green revolution needed to feed the world s rapidly growing population Plant genomic data is being utilized in genetic engineering to ensure that better and resilient varieties of crops are available ensuring food security This book is of immense interest to teachers researchers crop scientists capacity builders and policy makers Also the book serves as additional reading material for undergraduate and graduate students of agriculture biotechnology genomics soil science and environmental sciences National and International agricultural scientists and policy makers will also find this to be a useful read

PLANT BREEDING IN 21ST CENTURY B.D. Singh, N.S. Shekhawat, 2019-05-01 The discipline of plant breeding has undergone transformation due to the assimilation of the rapid

developments in molecular biology The existing books on plant breeding deal mainly with the classical approaches while specialized books on molecular approaches usually lack discussion of the classical methods The book Plant Breeding for 21st Century attempts to present the complete picture of plant breeding ranging from the classical to the molecular approaches applied to crop improvement The book is divided into four sections Classical Plant Breeding Transgenic technology Molecular Markers and Miscellaneous The first section deals with the classical plant breeding and is divided into eight chapters The second section has four chapters and describes transgenic technology The third section discusses various aspects of molecular markers and is spread over three chapters The final section has a single chapter dealing with variety release seed multiplication and intellectual property rights This book is designed primarily for graduate students viz B Sc agriculture and B Sc science students with botany as one of the subjects who would get their first exposure to plant breeding It would also be useful for the post graduate students especially in botany and to teachers of the subject The book is written in simple and easy to understand language Illustrations and photographs have been provided wherever they were expected to facilitate comprehension of the subject under discussion

Omics and System Biology Approaches for Delivering Better Cereals Dinesh Kumar Saini, Chittaranjan Koley, 2024-11-08 Cereals like wheat rice maize and barley have long been the dominant crops in agriculture providing a significant portion of our food supply Plant breeders and geneticists have always been interested in improving the yield and quality of cereals The primary challenges in cereal breeding lie in adapting to climate change and enhancing yield and stress tolerance In recent years omics approaches such as genomics transcriptomics proteomics and metabolomics have emerged as valuable tools to understand the genetic and molecular basis of cereal development under optimum and stress conditions However studying individual datasets for different cereals has limited our comprehensive understanding of complex traits and biological networks To overcome this limitation a systems biology approach is necessary Systems biology integrates multiple omics data modeling and cell activity prediction to gain a holistic understanding of biological processes By considering the whole system and its interactions rather than isolated components researchers can develop predictive models and even re engineer cells In the context of cereal improvement systems biology can play a crucial role in identifying and introducing desirable traits such as yield quality and stress tolerance It may help researchers uncover the molecular underpinnings of complex traits and offer insights for enhancing cereals on a national and international scale The book explores available omics resources the integration of multi omics data and systems biology methods focusing on their applications in cereals breeding and research It highlights current and innovative strategies to understand complex traits improve yield and enhance resistance to biotic and abiotic stresses It also addresses the challenges and opportunities associated with modeling multi omics data and analyzing systems level information By leveraging systems biology and integrated omics research this book aims to redefine the future research agenda for cereal improvement

Genomic Designing for Biotic Stress Resistant Technical Crops Chittaranjan Koley, 2022-10-18 Biotic stresses

cause yield loss of 31-42% in crops in addition to 6-20% during post harvest stage Understanding interaction of crop plants to the biotic stresses caused by insects bacteria fungi viruses and oomycetes 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 technical crops is imperative for addressing FHEE food health energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing have 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 biotic stresses The 15 chapters dedicated to 13 technical crops and 2 technical crop groups in this volume will deliberate on different types of biotic stress agents and their effects on and interaction with crop plants will enumerate on the available genetic diversity with regard to biotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer will brief on the classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts will enunciate the success stories of genetic engineering for developing biotic stress resistant varieties will discuss on molecular mapping of genes and QTLs underlying biotic stress resistance and their marker assisted introgression into elite varieties will enunciate on different emerging genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing resistant crop varieties with higher quantity and quality and will also elaborate some case studies on genome editing focusing on specific genes for generating disease and insect resistant crops

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

Advances in Plant Breeding Strategies: Cereals Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson, 2019-10-11 This book examines the development of innovative modern methodologies towards augmenting conventional plant breeding in individual crops for the production of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production enhanced food security in addition to providing raw materials for innovative industrial products and pharmaceuticals This

Volume 5 subtitled Cereals focuses on advances in breeding strategies using both traditional and modern approaches for the improvement of individual crops. It addresses important staple food crops including barley, fonio, finger millet, foxtail millet, pearl millet, proso millet, quinoa, rice, rye, tef, triticale, and spelt wheat. The volume is contributed by 53 internationally reputable scientists from 14 countries. Each chapter comprehensively reviews the modern literature on the subject and reflects the authors' own experience.

QTL Mapping in Crop Improvement Shabir Hussain Wani, Dechun Wang, Gyanendra Pratap Singh, 2022-11-19. QTL Mapping in Crop Improvement: Present Progress and Future Perspectives presents advancements in QTL breeding for biotic and abiotic stresses and nutritional improvement in a range of crop plants. The book presents a roadmap for future breeding for resilience to various stresses and improvement in nutritional quality. Crops such as rice, wheat, maize, soybeans, common bean, and pigeon pea are the major staple crops consumed globally; hence, fulfilling the nutritional requirements of global populations, particularly in the underdeveloped world, is extremely important. Sections cover the challenges facing maximized production of these crops, including diseases, insect damage, drought, heat, salinity, and mineral toxicity. Covering globally important crops including maize, wheat, rice, barley, soybean, common bean, and pigeon pea, this book will be an important reference for those working in agriculture and crop improvement. Uses the latest molecular markers to identify QTLs, genes responsible for biotic and abiotic stress tolerance in plants. Includes multiple core crops for efficient comparison and translational learning. Provides a ready reference for improving quality traits through the use of the latest technologies.

Smart Breeding Kailash Chandra, Subhash Chand, Ravi Prakash Saini, Rohit Sharma, 2024-02-13. This new volume focuses on novel breeding and biotechnological approaches for crop improvement, covering recent advances in molecular breeding and plant breeding such as pre-breeding, reverse breeding, allele mining, next-generation sequencing, etc. The authors consider the important necessity and development of climate-resilient crops that can withstand hostility or adversities of climate without substantially compromising yield and discuss ways to mitigate plant stress. The recent developments in breeding and biotechnological approaches concerning crop improvement that are discussed in the book include molecular markers, their genesis, and their significant applications for crop improvement. QTL mapping, a modern breeding approach for mapping quantitative traits, pulse molecular breeding, and genomics and approaches for precise gene alterations in the genome of organisms by using genome editing. Other techniques include reverse breeding, a technique that allows breeders to develop parental lines directly from the heterozygous plant within a shorter time frame, pre-breeding approaches for biotic and abiotic stress management in crop plants, allele mining as a way to find existing variations in an organism's gene pool by scanning the entire gene marker, assisted selection where molecular markers have played a significant role in accelerating breeding programs, and next-generation sequencing. NGS platforms in crop improvement where the authors summarize the technical know-how of each sequencing platform and its merits and demerits. The book introduces the design and importance of Mutmap and its variant in modern breeding, a novel gene

mapping approaches that allows rapid identification of causal nucleotide changes of mutants by whole genome resequencing. Examples and case studies of the various approaches are included as well with several examples of marker assisted selection of rice and maize crop and other agriculturally important crops. This informative volume will enhance readers knowledge about the recent developments in breeding and biotechnological approaches concerning crop improvement. *Research*

Anthology on Bioinformatics, Genomics, and Computational Biology Management Association, Information Resources, 2024-03-19 In the evolving environment of bioinformatics genomics and computational biology academic scholars are facing a challenging challenge keeping informed about the latest research trends and findings. With unprecedented advancements in sequencing technologies computational algorithms and machine learning these fields have become indispensable tools for drug discovery disease research genome sequencing and more. As scholars strive to decode the language of DNA predict protein structures and navigate the complexities of biological data analysis the need for a comprehensive and up to date resource becomes paramount. The *Research Anthology on Bioinformatics Genomics and Computational Biology* is a collection of a carefully curated selection of chapters that serves as the solution to the pressing challenge of keeping pace with the dynamic advancements in these critical disciplines. This anthology is designed to address the informational gap by providing scholars with a consolidated and authoritative source that sheds light on critical issues innovative theories and transformative developments in the field. It acts as a single reference point offering insights into conceptual methodological technical and managerial issues while also providing a glimpse into emerging trends and future opportunities. **Genomics Data Analysis for Crop Improvement** Priyanka Anjoy, Kuldeep Kumar, Girish Chandra, Kishor

Gaikwad, 2024-01-09 This book addresses complex problems associated with crop improvement programs using a wide range of programming solutions for genomics data handling and sustainable agriculture. It describes important concepts in genomics data analysis and sequence based mapping approaches along with references. The book contains 16 chapters on recent developments in several methods of genomic data analysis for crop improvements and sustainable agriculture all authored by eminent researchers who are experts in their fields. These chapters focus on applications of a wide range of key bioinformatics topics including assembly annotation and visualization of next generation sequencing NGS data expression profiles of coding and noncoding RNA statistical and quantitative genetics trait based association analysis quantitative trait loci QTL mapping and artificial intelligence in genomic studies. Real examples and case studies in the book will come in handy when applying the techniques. The relative scarcity of reference materials covering bioinformatics applications as compared with the readily available books also enhances the utility of this book. The targeted readers of the book are scientists researchers and bioinformaticians from genomics and advanced breeding in different areas. The book will appeal to the applied researchers engaged in crop improvements and sustainable agriculture by using bioinformatics tools students research project leaders and practitioners from the various marginal disciplines and interdisciplinary research. **Crop**

Improvement Pankaj Kumar,Ajay Kumar Thakur,2021-06-29 Crop Improvement Biotechnological Advances Biomedical Science The field of biotechnology is advancing at a fast pace The availability of low cost DNA genome sequencing technologies has led to the discovery and functional characterization of myriad of genes imparting stress tolerance and quality traits The omics group of technologies including genomics proteomics transcriptomics and metabolomics has revolutionized the agricultural biotechnology sector The Nobel Prize winning technology such as the genome editing technique is being employed to edit various gene functions in plants aiding in crop improvement This technology may be adopted very quickly by consumers compared with the transgenic technique because the genome edited plants have no adverse effects on the genome of the plant itself and on the environment and related species non target organisms In this book authors have attempted to compile the latest techniques of agricultural biotechnology and their applications in crop improvement Certain chapters have been dedicated to describe the use of nanotechnology a fast emerging new technique in the agriculture sector Features Development potential and safety issues in biotechnology Advances in genomics proteomics and transcriptomics in agriculture Protein bioinformatics and its applications Genetically modified GM technology and its implications Genome editing in crop improvement Marker assisted selection MAS in crop improvement Mutation breeding Cryobiotechnology Nanotechnology and biosensors This book includes real world examples and applications making it accessible to a broader interdisciplinary readership We hope that it will serve as a reference book for researchers engaged in molecular biology and biotechnology and will act as a ready reckoner for postgraduate PG students in the biotechnology discipline

Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality Mohammad Anwar Hossain,Lutful Hassan,Khandakar Md. Iftekharuddaula,Arvind Kumar,Robert Henry,2021-04-06 Presents the latest knowledge of improving the stress tolerance yield and quality of rice crops One of the most important cereal crops rice provides food to more than half of the world population Various abiotic stresses currently impacting an estimated 60% of crop yields are projected to increase in severity and frequency due to climate change In light of the threat of global food grain insecurity interest in molecular rice breeding has intensified in recent years Progress has been made but there remains an urgent need to develop stress tolerant bio fortified rice varieties that provide consistent and high quality yields under both stress and non stress conditions Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality is the first book to provide comprehensive and up to date coverage of this critical topic containing the physiological biochemical and molecular information required to develop effective engineering strategies for enhancing rice yield Authoritative and in depth chapters examine the molecular and genetic bases of abiotic stress tolerance discuss yield and quality improvement of rice and explore new approaches to better utilize natural resources through modern breeding Topics Include rice adaptation to climate change enriching rice yields under low phosphorus and light intensity increasing iron zinc vitamin and antioxidant content and improving tolerance to salinity drought heat cold submergence heavy metals and Ultraviolet B radiation This

important resource Contains the latest scientific information on a wide range of topics central to molecular breeding for rice Provides timely coverage molecular breeding for improving abiotic stress tolerance bioavailability of essential micronutrients and crop productivity through biotechnological methods Features detailed chapters written by internationally recognized experts in the field Discusses recent progress and future directions in molecular breeding strategies and research Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality is required reading for rice researchers agriculturists and agribusiness professionals and the ideal text for instructors and students in molecular plant breeding abiotic stress tolerance environmental science and plant physiology biochemistry molecular biology and biotechnology

Diseases of Field Crops: Diagnostics and Management Vaibhav Kumar Singh, Jameel Akhtar, Krishna Pratap Singh, 2024-11-18 This edited book is a compilation of the chapters on the recent advances made in the field of disease management in various field crops It covers host resistance regulatory mechanism as well as non chemical methods and computer based applications in disease management Molecular marker assisted selection proteomic approaches CRISPR Cas mediated technology to improve food quality and minimize negative public health impact associated with crop diseases is also discussed Plant diseases continue to be major challenge to global crop production especially field crops inflicting not only crop yield losses to farmers but also decline quality as well as nutritional value leading threat to global food security According to FAO statistics there is a need of 70% steady increase in agricultural production to fulfil the food requirements of 9.1 billion populations by 2050 and annual global crop losses due to pests and diseases have been estimated to be about 30% Therefore the book aims at bringing out a comprehensive information on field crop diseases plant disease detection and diagnosis monitoring forecasting forewarning and management The book is very useful for students teachers researchers planners administrators and also the end users at national and international level

Seed Science and Technology Malavika Dadlani, Devendra K. Yadava, 2023-02-28 This open access edited book is a collection of 17 chapters synthesized primarily from the lectures delivered by eminent Indian and international experts during a series of capacity building programmes organised in India during 2020 and 2021 under the aegis of Indo German Cooperation on Seed Sector Development a component of the Bilateral Cooperation between the Governments of India and Germany Seed Science and Technology a multi disciplinary subject is advancing rapidly keeping pace with the development of improved plant varieties and other climate resilient technologies Knowledge of the underlying biological processes and application of appropriate technologies for variety maintenance and seed production quality assurance testing and enhancement processing packaging and storage etc are important in a seed programme Chapters presented in the book is a blend of basic seed biology covering seed development maturation dormancy germination vigour and invigoration and seed deterioration variety maintenance and production of genetically pure seed of open pollinated and hybrid varieties in a few key field crops and vegetables and fundamentals of seed processing packaging and storage and seed quality assurance systems followed in different countries testing the essential components of seed quality including seed

health application of molecular technologies for precision in testing and enhancement of seed quality It concludes by identifying the key areas of future seed research and technology development The book covers the fundamentals and recent advances of seed science and technology with the latest research information and an exhaustive and updated list of references on different topics It is expected to benefit the students as well as the scientists faculty members and seed sector professionals working in the public and private seed sectors certification authorities and seed producing agencies in India and elsewhere

Biotechnologies and Genetics in Plant Mutation Breeding Tariq Ahmad Bhat,Khalid Rehman Hakeem,2023-06-30 An indispensable source for researchers teachers and graduate and postgraduate students interested in mutation breeding and genetic engineering It introduces readers to contemporary knowledge and state of the art technologies in the field of mutation breeding including fundamental mechanisms and applications It will provide new directions and avenues for enhancement of food security and food quality by using the latest techniques for the mutation as breeding approach From Prof Jameel M Al Khayri King Faisal University Saudi Arabia This comprehensive three volume set book aims to help combat the challenge of providing enough food for the world by the use of advanced genetic processes to improve crop production both in quantity and quality Volume 1 Mutagenesis and Crop Improvement discusses mutagenesis cytotoxicity and crop improvement covering the processes mutagenic effectiveness and mechanisms The volume emphasizes the improvement of agronomic characteristics by manipulating the genotype of plant species resulting in increased productivity Volume 2 Revolutionizing Plant Biology covers the use of mutagenesis and biotechnology to explore the variability of mutant genes for crop improvement The chapters deal with in vitro mutagenesis to exploit the somaclonal variations induced in cell culture and highlight the importance of in vitro mutagenesis in inducing salt resistance heat resistance and drought resistance Volume 3 Mechanisms for Genetic Manipulation of Plants and Plant Mutants reviews the genetic engineering techniques used to mutate genes and to incorporate them into different plant species of cereals pulses vegetables and fruits Also discussed are the principles of genetic engineering by which desired genes can be transferred from plants to animals to microorganisms and vice versa

Trends in Cotton Breeding: Meeting the Challenges of the 21st Century Linghe Zeng,Fred Bourland,Iain W. Wilson,2022-11-07

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