Plant Breeding

Mendelian to Molecular Approaches

Editors.

H K Jain M C Kharkwal



Plant Breeding Mendelian To Molecular Approaches

Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson

Plant Breeding Mendelian To Molecular Approaches:

Plant Breeding H.K. Jain, M.C. Kharkwal, 2012-12-06 The Indian Society of Genetics and Plant Breeding was established in 1941 in recognition of the growing contribution of improved crop varieties to the country's agriculture Scientific plant breeding had started inIndia soon after the rediscovery of Mendel's laws of heredity The Indian Agricultural Research Institute set up in 1905 and a number of Agricultural Colleges in different parts of the country carried out some of the earliest work mostly in the form of pure line selections. In subsequent years hybridization programmes in crops like wheat rice oilseeds grain legumes sugarcane and cotton yielded a large number of improved cultivars with significantly higher yields A turning point came in the 1960s with the development of hybrids in several crops including inter specific hybrids in cotton And when new germplasm with dwarfing genes became available in wheat and rice from CIMMYT and IRRI respectively Indian plant breeders guickly incorporated these genes into the genetic background of the country's widely grown varieties with excellent grain quality and other desirable traits This was to mark the beginning of modem agriculture in India as more and more varieties were developed characterized by a high harvest index and response to modem farm inputs like the inorganic fertilizers India s green revolution which has led to major surpluses offood grains and othercommodities like sugar and cotton has been made possible by the work of one of the largest groups of plant breeders working in a coordinated Plant Breeding Medelian to Mendelian to Molecular Approaches Jani H K., Kharlal M C., 2004 network Plant Breeding Strategies: Breeding, Biotechnology and Molecular Tools Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson, 2016-02-02 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 1 which consists of 21 chapters covering domestication and germplasm utilization conventional breeding techniques and the role of biotechnology In addition to various biotechnological applications in plant breeding it includes functional genomics mutations and methods of detection and molecular markers In vitro techniques and their applications in plant breeding are discussed with an emphasis on embryo rescue somatic cell hybridization and somaclonal variation Other chapters cover haploid breeding transgenics cryogenics and bioinformatics Plant Breeding Reviews, Volume 25 Jules Janick, 2010-04-07 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 Accelerated Plant Breeding, Volume 1 Satbir Singh Gosal, Shabir Hussain Wani, 2020-05-23 Plant improvement has shifted its focus from yield quality and disease resistance to factors that will enhance commerical export such as early maturity shelf life and better processing quality

Conventional plant breeding methods aiming at the improvement of a self pollinating crop such as wheat usually take 10 12 years to develop and release of the new variety During the past 10 years significant advances have been made and accelerated methods have been developed for precision breeding and early release of crop varieties. This work summarizes concepts dealing with germplasm enhancement and development of improved varieties based on innovative methodologies that include doubled haploidy marker assisted selection marker assisted background selection genetic mapping genomic selection high throughput genotyping high throughput phenotyping mutation breeding reverse breeding transgenic breeding shuttle breeding speed breeding low cost high throughput field phenotyping etc It is an important reference with special focus on accelerated development of improved crop varieties Advances in Plant Breeding Strategies: Vegetable Crops Jameel M. Al-Khayri, S. Mohan Jain, Dennis V. Johnson, 2021-08-25 Plant breeders and geneticists are under constant pressure to sustain and expand food production by using innovative breeding strategies and introducing minor crops which are well adapted to marginal lands provide a source of nutrition and have abiotic and biotic stress tolerance to feed an ever increasing human population The basic concept of this book is to examine the use of innovative methods augmenting traditional plant breeding towards the improvement and development of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production and enhanced food security Three volumes of the book series Advances in Plant Breeding Strategies were published in 2015 2016 and 2018 respectively Volume 1 Breeding Biotechnology and Molecular Tools Volume 2 Agronomic Abiotic and Biotic Stress Traits and Volume 3 Fruits In 2019 the following four volumes were published Volume 4 Nut and Beverage Crops Volume 5 Cereals Volume 6 Industrial and Food Crops and Volume 7 Legumes In 2021 three volumes are being concurrently published Volume 8 Vegetable Crops Bulbs Roots and Tubers Volume 9 Vegetable Crops Fruits and Young Shoots and Volume 10 Vegetable Crops Leaves Flowerheads Green Pods Mushrooms and Truffles This Volume 10 subtitled Vegetable Crops Leaves Flowerheads Green Pods Mushrooms and Truffles consists of 14 chapters focusing on advances in breeding strategies using both traditional and modern approaches for the improvement of individual vegetable crops Chapters are arranged in 4 parts according to the edible vegetable parts Part I Leaves Chicory Cichorium intybus L Chinese cabbage Brassica rapa L var pekinensis Rocket salad Eruca vesicaria ssp sativa Mill Spring onion Allium fistulosum L Water spinach Ipomoea aquatica Forsk and Watercress Nasturtium officinale R Br Pat II Flowerheads and Green Pods Cauliflower Brassica oleracea var botrytis L Globe artichoke Cynara cardunculus var scolymus L Garden pea Pisum sativum L and Yardlong bean Vigna unguiculata L Walp ssp sesquipedalis L Verdc Part III Mushrooms Enoki mushroom Flammulina velutipes Curtis Singer and Shiitake mushroom Lentinula edodes Berk Sing Part IV Truffles Desert truffles Terfezia spp and White truffle Tuber magnatum Picco and T borchii Vittad Each chapter comprehensively reviews the contemporary literature on the subject and reflects the experiences of the authors Chapters are written by internationally reputable scientists and subjected to a review

process to assure quality presentation and scientific accuracy Each chapter begins with an introduction covering related backgrounds and provides in depth discussion of the subject supported with high quality color photos illustrations and relevant data The chapter concludes with recommendations for future research directions a comprehensive list of pertinent references to facilitate further reading and appendixes of genetic resources and concerned research institutes This book series is a valuable resource for advanced students researchers scientists commercial producers and seed companies as well as consultants and policymakers interested in agriculture particularly in modern breeding technologies Plant Breeding Strategies: Fruits Jameel Al-Khayri, Shri Mohan Jain, Dennis V. Johnson, 2018-07-20 This book examines the development of innovative modern methodologies towards augmenting conventional plant breeding for the production of new crop varieties under the increasingly limiting environmental and cultivation factors to achieve sustainable agricultural production and enhanced food security Two volumes of Advances in Plant Breeding Strategies were published in 2015 and 2016 respectively Volume 1 Breeding Biotechnology and Molecular Tools and Volume 2 Agronomic Abiotic and Biotic Stress Traits This is Volume 3 Fruits which is focused on advances in breeding strategies for the improvement of individual fruit crops It consists of 23 chapters grouped into three parts according to distribution classification of fruit trees Part I Temperate Fruits Part II Subtropical Fruits and Part III Tropical Fruits Each chapter comprehensively reviews the modern literature on the subject and reflects the authors own experience Plant Mutation Breeding and Biotechnology Q. Y. Shu, Brian P. Forster, H. Nakagawa, Hitoshi Nakagawa, 2012 Abstract This book presents contemporary information on mutagenesis in plants and its applications in plant breeding and research The topics are classified into sections focusing on the concepts historical development and genetic basis of plant mutation breeding chapters 1 6 mutagens and induced mutagenesis chapters 7 13 mutation induction and mutant development chapters 14 23 mutation breeding chapters 24 34 or mutations in functional genomics chapters 35 41 This book is an essential reference for those who are conducting research on mutagenesis as an approach to improving or modifying a trait or achieving basic understanding of a pathway for a trait

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 The Indian Journal of Genetics & Plant Breeding ,2007 Breeding, Biotechnology and Seed Production of Field Crops Bidhan Roy, 2013-01-15 In modern days crop improvement is a multidisciplinary division of agriculture In this book entitled Breeding Biotechnology and Seed Production of Field Crops emphasis has been given on principles methods and practices in plant breeding biotechnology in crop improvement and seed production of field crops The book has been written for all sections of learners educators and staff members of seed industries Particular importance has been underlined for postgraduate students who specialize in plant breeding and seed science Each chapter of the book has been designed as per the recommended of syllabus of Indian Council of Agricultural Research for the postgraduate students of various Agricultural Universities in our country This book has been divided into two major parts i Principles of crop breeding and ii Methods and practices of crop improvement and seed production of individual field crop The book contains total of 18 chapteFirst three chapters are related to shed light on the basic principles and remaining chapters deal with methods and practices of individual crop for improvement and seed production. We hope that the book will be ready to lend a hand to the advanced undergraduate students doing plant breeding in elective postgraduate students who opted plant breeding teachers researchers and staff members of private seed companies of this field of specialization **Plant Mutagenesis** Nitish Kumar, 2024-04-22 This book emphasizes recent developments in the use of mutation technologies for crop plant improvement and ultimately sustainable development Plant breeders use genetic variation which is created by plant induced mutation to create new and improved cultivars The development of improved cultivars is a productive and optimistic agricultural strategy for economic and environmental sustainability since it ensures high yield stability enhances soil health and poses no environmental risks Understanding mutation induction and exploring its uses have paved the road for improving genetic diversity for different plants and agronomic features and advanced gene discovery for diverse qualities that aid in sustainable development Plant mutation breeding imitates spontaneous mutation the primary force driving evolution by using a plant s own genetic resources instead of genetic transformation In order to develop beneficial agricultural features this strategy focuses on the application of various chemical and physical mutagens in conjunction with biotechnologies In order to survive in challenging environments increase nutritional value fight diseases and pests grow in

salty soils and utilize water and nutrients more effectively new varieties of plants are developed This approach has significantly boosted the economies of nations like China India Japan Pakistan and the USA As of right now the strategy has produced and disseminated more than 3600 mutant types in the majority of crop plants having a significant economic impact This book discusses several mutation induction techniques mutant screening genome editing the haploid breeding system for mutations as well as genomic developments and mutant gene identification Plant breeders researchers and students in the fields of plant sciences agriculture and food science will find this instructive book to be of great help Industrial Crop Plants Nitish Kumar,2024-04-22 Industrial crops offer farmers new market opportunities to increase their revenue by producing high value products focusing on fiber forest and energy crops industrial oilseeds rubber and resins pharmaceuticals and more Technological innovations in agriculture have facilitated higher yields but conserving crop genetic resources and diversity remains crucial for sustainable agricultural production This poses a challenge that can be addressed through modern tools of biotechnology and genomics utilizing the wealth of sequenced plant genomes This book addresses the need for knowledge in managing the risks and conservation of genetic diversity associated with advanced technology It provides comprehensive coverage of plant genomics and biotechnology catering to post graduate students researchers employees of seed and biotechnology companies as well as instructors in plant genetics breeding and biotechnology fields

Mutagenesis: exploring novel genes and pathways N.B. Tomlekova, M.I. Kozgar, M.R. Wani, 2023-08-07 Current successes in omics research have accelerated the production of high quality foods Various mutation methodologies have been developed to achieve this progress showing the importance of mutagenesis for food security Mutagenesis exploring novel genes and pathways describes the latest achievements in induced mutagenesis with a particular focus on the development of crops The book details experimental studies on functions of particular genes of interest the mechanisms involved in physiological processes and occurring chemical reactions Also the creation of new mutants and lines by use of genomic data banks is discussed The book will be of mutual interest to end users in modern breeding programs as well as to scientific Designing Sorghum Genome for NextGen Agriculture Dinesh Kumar Saini, S.V. Krishna Jagadish, 2025-09-30 research With increasing global food demand and changing climatic conditions sorghum is an important crop for sustainable agriculture Its inherent resilience to drought heat and poor soils makes it a promising solution for enhancing food security and climate adaptation To further harness its potential Designing Sorghum Genome for NextGen Agriculture authored by leading researchers and experts explores the latest advancements aimed at improving sorghum s resilience and productivity This comprehensive resource provides cutting edge insights into how modern scientific tools and methods are being leveraged to design the sorghum genome for enhanced yield stress tolerance and nutritional value This book takes a multidisciplinary approach integrating diverse strategies to enhance sorghum s resilience It highlights current achievements and outlines future directions to harness sorghum s genetic potential as a climate resilient crop for next generation

agriculture Key Features Examines sorghum s global agricultural significance and its role in addressing future climatic challenges Covers genomics pan genomics mutagenesis and targeted gene editing for sorghum improvement Highlights physiological molecular and microbiome based strategies to enhance sorghum s abiotic stress tolerance Explores the synergy between genomic selection and phenomics for accelerated genetic gain Discusses omics approaches and systems biology for advancing sorghum research Showcases artificial intelligence and crop simulation modeling as tools for sorghum breeding for enhanced stress tolerance and yield potential This book serves as a valuable resource for researchers breeders agronomists and students working in sorghum genetics genomics crop improvement and sustainable agriculture By bridging fundamental research with translational breeding strategies it offers a forward looking perspective on leveraging genomics for the future of sorghum production Breeding And Protection Of Vegetables M. S. Rana, 2011-01-15 The book has been written in a very simple and easily understandable language The information given in this book is based on systematically and scientifically designed field and laboratory experiments conducted in various ecological zones It is believed that this book will serve the scientific society in a variety of ways Undergraduate and postgraduate students professors teachers scientists and researchers having their interests in different fields of specialization will certainly be benefited The book covers articles written by well known authorities in respective fields **Rediscovery of Genetic and** Genomic Resources for Future Food Security Romesh Kumar Salgotra, Sajad Majeed Zargar, 2020-01-28 This book describes how the latest genomic resources techniques can be efficiently used in plant breeding programmes to achieve food security in the future It also shares insights on how to utilize the untapped and unexplored genetic diversity of wild species wild relatives and landraces for crop improvement Moreover the book offers an impressive array of balanced analyses fresh ideas and perspectives and thoughtful and realistic proposals regarding the sustainable utilization of plant genetic resources with modern biotechnological techniques The first book to address the importance of plant genetics and genomic resources for food security it brings together a group of plant breeders and biotechnologists to investigate the use of genomic resources techniques in plant breeding programmes Providing essential information on the efficient utilization of genomic resources in precision breeding it offers a valuable asset for undergraduate and graduate students teachers and professionals engaged in related fields 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 **Industrial Crops** Von Mark V. Cruz, David A. Dierig, 2014-11-17 The volume on Industrial Crop Breeding will be part of the series Handbook of Plant Breeding This volume will focus on the emerging area of plant breeding for sustainable production of transportation fuels and bio based products using the current advances in the field The book is scheduled to consist of a total number of 30 chapters divided into four sections The sections will emphasize crops being considered for different challenge areas including oil crops for biodiesel sugar starch and cellulosic crops for biofuel crops for bio products and issues and future prospects A chapter introducing the first three sections will also be included Outstanding scientists for each crop species are proposed as senior authors who may invite co authors to contribute part of a chapter to provide additional expertise or perspective The proposed authors will represent various national and international institutions to get a more diverse view on the topic and somehow get a global view on the common issues that researchers on industrial crops are facing The book will comprise primarily of specific issues available germplasm breeding techniques and potential geographical areas of production pertaining to individual crops being considered for industrial uses We hope to encourage the proposed authors of new crops to provide an estimate of the crop readiness for commercial development and discuss the limitations This book will be will be of interest and envisioned to serve as an updated reference to researchers in both academic and industrial setting to students and teachers of plant breeding and to policy makers who are looking for alternative solutions to dependency on imported petroleum products Crop Improvement, Volume 2 Aamir Raina, Mohammad Rafig Wani, Rafiul Amin Laskar, Nasya Tomlekova, Samiullah Khan, 2023-09-07 As per the reports of FAO the human population will rise to 9 billion by the end of 2050 and 70% of more food must be produced over the next three decades to feed the additional population. The breeding approaches for crop improvement programs are dependent on the availability and accessibility of genetic variation either spontaneous or induced by the mutagens Plant breeders agronomists and geneticists are under constant pressure to expand food production by employing innovative breeding strategies to enhance yield adaptability nutrition resistance to biotic and abiotic stresses In conventional breeding approaches introgression of genes in crop varieties is laborious and time consuming Nowadays new innovative plant breeding techniques such as molecular breeding and plant biotechnology supplement the traditional breeding approaches to achieve the desired goals of enhanced food production With the advent of recent molecular tools like genomics transgenics molecular marker assisted back crossing TILLING Eco TILLING gene editing CRISPR CAS non targeted protein abundant comparative proteomics genome wide association studies have made possible mapping of important QTLs insertion of transgenes reduction of linkage drags and manipulation of genome In general conventional and modern plant breeding approaches would be strategically ideal for developing new elite crop varieties to meet the feeding requirement of the increasing world population This book highlights the latest progress in the field of plant breeding and their applicability in crop improvement The basic concept of this 2 volume work is to assess the use of modern breeding

strategies in supplementing th goals of food production	e conventional breeding tov	vard the development of	elite crop varieties for o	btaining desired

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