



Plant Breeding

Mendelian to
Molecular
Approaches

Editors

H.K. Jain

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Alpha Science

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 in India 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 quickly 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 modern agriculture in India as more and more varieties were developed characterized by a high harvest index and response to modern farm inputs like the inorganic fertilizers. India's green revolution which has led to major surpluses of food grains and other commodities like sugar and cotton has been made possible by the work of one of the largest groups of plant breeders working in a coordinated network. *Plant Breeding Mendelian to Molecular Approaches* Jani H K., Kharwal M C., 2004 **Advances in**

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. *Advances in 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

Biological and Molecular Approaches in Pest Management Balwinder Singh, Ramesh Arora, S.S. Gosal, 2015-01-01 This book offer a plethora of environmentally benign alternatives to these chemical insecticides It is hoped that the book will fill the wide gap in literature on utilization of biological and molecular approaches in biointensive IPM as an alternative to chemical insecticide based IPM for sustainable insect pest management in future

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 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

PLANT BREEDING METHODS MAHABAL RAM, 2014-10-01 This comprehensive book provides a detailed account of the plant breeding methodology covering particularly pre and post Green Revolution era It elaborates on plant breeding and gene manipulation utilization of self incompatibility in developing hybrids different plant breeding methods for development of crop varieties and hybrids in self and cross pollinated crops nature of gene action and genotype environment interaction The text discusses gene manipulation in the crop plant and transfer of genes from wild species to cultivated crops application of biotechnology in plant breeding and genetic engineering and transgenic molecular markers as

breeding tools and their limitations It concludes with a discussion on physiologic breeding approach and new plant ideotype concepts which are new and emerging areas of interest in plant breeding research The book will be of immense use to undergraduate and postgraduate students of Agricultural Sciences and Botany for their course study Besides research scholars and professionals will also find the book as an excellent source of reference **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

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 Plant Tissue Culture and Molecular Markers Ashwani Kumar, N. S. Shekhawat, 2009 Plant tissue culture techniques help in understanding basic life processes which is essential to improving crop productivity Furthermore recently molecular biology has assumed great importance with respect to plant biotechnology This book combines all three aspects into one with a focus on practical applications of various techniques It discusses micropropagation studies on several crop plants the molecular basis of understanding various life processes including the molecular basis of somatic embryogenesis and other physiological and biochemical processes having significant biotechnological applications It also covers in vitro studies of certain important plants like Aloe vera Simmondsia chinensis Anacyclus pyrethrum and Crataeva nurvala Arachis hypogaea L Phoenix dactylifera Dendrocalamus asper Asparagus adscendens Roxb natural products of plant origin with their therapeutic potential and biotechnological production as well as genome analysis of crop plants with future applications in biotechnology *Vitamins and Minerals Biofortification of Edible Plants* Nouredine Benkeblia, 2020-05-26 A Detailed Reference on How Modern Biotechnology is using the Biofortification of Crops to Improve the Vitamin and Mineral Content of Edible Plants In this reference Vitamins and Minerals Bio Fortification of Edible Plants authors cover new territory on phytonutrients focusing on the enhancement and modification of edible crops

This book presents techniques and research findings from modern biotechnology to educate readers on the newest tools and research in the field. Readers will learn how groundbreaking scientific advances have contributed to the nutritional content of edible plants and crops for animals and humans. Inside, readers will find comprehensive information on new concepts of biofortification including but not limited to Modern biotechnology and its uses for improving the vitamin and mineral content of edible plants. Potential minerals and vitamins that can be targeted and implemented in agriculture. Ways of enhancing the nutritional contents of edible plants to address nutritional deficiencies and improve livestock. Methods of identifying plants that can be used to heal or prevent disease and illness. While many books cover the phytonutrients of crops, this reference book reports on methodologies, techniques, and environmental changes used to enhance and improve agricultural products. It is one of the first to provide information on using modern biotechnologies to modify crops with the goal of creating health benefits.

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.

Cisgenic Crops: Potential and Prospects Anurag Chaurasia, Chittaranjan Kole, 2022-07-17. This book is the first attempt for in depth compilation of current knowledge on cisgenic crops and their potential prospects as a sustainable substitute for the controversial genetically modified crops. Innovative methodologies for the development of cisgenic crops for disease resistance, improved nutritional contents, suitability for organic farming, survival under climate change, and their role in conservation of plant genetic resources have been highlighted. Combined with molecular markers and genome editing, an advanced approach for crop improvement is reported. The book has 14 chapters authored by globally leading experts on the subject. This book is useful to the students, teachers, researchers, and policy planners working across the disciplines of classical plant breeding up to the recent genetically modified and genome edited crops.

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 *Transgenic Crops IV* Eng Chong Pua,Michael R. Davey,2007-05-22 This volume presents the current knowledge of plant biotechnology as an important tool for crop improvement It covers cereals vegetables root crops herbs and spices This volume is an invaluable reference for plant breeders researchers and graduate students in the fields of plant biotechnology agronomy horticulture genetics and both plant cell and molecular biology

Designing Sorghum Genome for NextGen Agriculture Dinesh Kumar Saini,S.V. Krishna Jagadish,2025-09-30 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 *Crop Adaptation to Climate Change* Shyam Singh Yadav,Robert J. Redden,Jerry L.

Hatfield,Hermann Lotze-Campen,Anthony E. Hall,2011-08-02 A major task of our time is to ensure adequate food supplies for the world s current population now nearing 7 billion in a sustainable way while protecting the vital functions and biological diversity of the global environment The task of providing for a growing population is likely to be even more difficult in view of actual and potential changes in climatic conditions due to global warming and as the population continues to grow Current

projections suggest that the world's temperatures will rise 1.8–4.0°C by 2100 and population may reach 8 billion by the year 2025 and some 9 billion by mid century after which it may stabilize This book addresses these critical issues by presenting the science needed not only to understand climate change effects on crops but also to adapt current agricultural systems particularly in regard to genetics to the changing conditions Crop Adaptation to Climate Change covers a spectrum of issues related to both crops and climatic conditions The first two sections provide a foundation on the factors involved in climate stress assessing current climate change by region and covering crop physiological responses to these changes The third and final section contains chapters focused on specific crops and the current research to improve their genetic adaptation to climate change Written by an international team of authors Crop Adaptation to Climate Change is a timely look at the potentially serious consequences of climate change for our global food supply and is an essential resource for academics researchers and professionals in the fields of crop science agronomy plant physiology and molecular biology crop consultants and breeders as well as climate and food scientists

Artificial Polyploidy in Plants Jen-Tsung Chen,Jeremy Coate,Geoffrey Meru,2021-01-21

Adopting the Melody of Term: An Mental Symphony within **Plant Breeding Mendelian To Molecular Approaches**

In some sort of taken by monitors and the ceaseless chatter of instantaneous transmission, the melodic beauty and emotional symphony produced by the prepared word frequently diminish in to the backdrop, eclipsed by the relentless noise and disruptions that permeate our lives. However, located within the pages of **Plant Breeding Mendelian To Molecular Approaches** a wonderful fictional value full of natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that interesting masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of the touching examination, we can investigate the book is main harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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