

Haploids In Crop Improvement One

**Bir Bahadur, Manchikatla Venkat
Rajam, Leela Sahijram, K. V.
Krishnamurthy**

Haploids In Crop Improvement One:

Haploids in Crop Improvement I Y. P. S. Bajaj, 2012-12-06 Haploid plants have the gametophytic number of chromosomes They are of great importance especially in studies on the induction of mutations and also for the production of homozygous plants they are needed in large numbers The conventional methods employed by plant breeders for their production are cumbersome time consuming laborious and rather inefficient Sometimes it may take years to produce a pure line However with the introduction of in vitro techniques especially anther culture for the induction of androgenesis it has become increasingly evident that these methods considerably accelerate the production of haploids for plant breeding programs During the last decade in vitro produced haploids have been incorporated into breeding programs of many agricultural crops and positive results have been obtained especially with rice wheat potato barley maize asparagus sunflower brassica tobacco etc Among these rice and wheat are the best examples in which a number of improved varieties have been released In wheat the breeding cycle can be shortened by three or four generations when the pollen haploid breeding method is used instead of conventional cross breeding The release of the wheat varieties Jinghua 1 and Florin is a typical example of what can be achieved with other crops Taking these developments into consideration the present volume Haploids in Crop Improvement I was compiled

Haploids in Crop Improvement I Y. P. S. Bajaj, 1990-07-19 Haploid plants have the gametophytic number of chromosomes They are of great importance especially in studies on the induction of mutations and also for the production of homozygous plants they are needed in large numbers The conventional methods employed by plant breeders for their production are cumbersome time consuming laborious and rather inefficient Sometimes it may take years to produce a pure line However with the introduction of in vitro techniques especially anther culture for the induction of androgenesis it has become increasingly evident that these methods considerably accelerate the production of haploids for plant breeding programs During the last decade in vitro produced haploids have been incorporated into breeding programs of many agricultural crops and positive results have been obtained especially with rice wheat potato barley maize asparagus sunflower brassica tobacco etc Among these rice and wheat are the best examples in which a number of improved varieties have been released In wheat the breeding cycle can be shortened by three or four generations when the pollen haploid breeding method is used instead of conventional cross breeding The release of the wheat varieties Jinghua 1 and Florin is a typical example of what can be achieved with other crops Taking these developments into consideration the present volume Haploids in Crop Improvement I was compiled

Doubled Haploids: Technological Advances and Role In Crop Improvement Zenu Jha, Satish B. Verulkar, Suprasanna Penna, 2025-03-05 This contributed volume covers the technology of double haploid production with special reference to anther culture and double haploid production in crop plants and applications for basic and applied research in crop improvement Globally plant breeders aim to achieve higher crop productivity by using different breeding techniques The double haploid genotypes have made this monotonous work easier

and more efficient to a greater extent by achieving homozygosity and genetic fixation Haploids are genotype with a gametophytic chromosome number and a double haploid is a genotype developed when haploid cells undergo chromosome doubling Artificial production of double haploids can easily shorten the time required to create homozygous plants which is vital in plant breeding The book discusses how double haploids can help in accelerating conventional plant breeding programs and make early release of cultivars with superior and desirable traits along with greater utility in other research aspects of plant breeding genetics and genetic engineering It also explains the role of double haploids in complementing back cross breeding by transferring genes of interest from wild relatives thus breaking genetic barriers The book highlights the role of double haploids in genetic studies like inheritance of quantitative traits quantitative trait loci QTL mapping Genomics gene identification whole genome mapping and production of stable transgenic plants This book is essential for plant breeders geneticists researchers and students in agricultural and crop sciences offering insights into the transformative potential of double haploid technology in modern plant breeding

Advanced Crop Improvement, Volume 1 Aamir Raina, Mohammad Rafiq Wani, Rafiul Amin Laskar, Nasya Tomlekova, Samiullah Khan, 2023-08-01 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 conventional breeding toward the development of elite crop varieties for obtaining desired goals of food production Haploids in Crop Improvement II Constantine E. Don Palmer, Wilfred A. Keller, Kenneth J. Kasha, 2006-01-27 Doubled haploid technology is an important tool for plant breeding It allows for significant time reduction in the achievement of homozygous breeding lines of value in crop improvement This volume provides an excellent overview of haploid induction

and the application of doubled haploids The authors emphasize advances made in the understanding of microspore embryogenesis but treat also advances in gynogenesis and the manipulation of parthenogenetic haploid development The text contains a thorough discussion of the application of haploidy to the improvement of a number of species from various families including Brassicaceae Poaceae and Solanaceae The various methods applicable to these species are described in detail Each chapter contains critical evaluation of the scientific literature and an extensive list of references This volume is ideally suited for plant breeders geneticists and plant cell biologists Alien Gene Transfer in Crop Plants, Volume 1 Aditya Pratap, Jitendra Kumar, 2013-11-01 Genetic engineering and biotechnology along with conventional breeding have played an important role in developing superior cultivars by transferring economically important traits from distant wild and even unrelated species to the cultivated varieties which otherwise could not have been possible with conventional breeding There is a vast amount of literature pertaining to the genetic improvement of crops over last few decades However the wonderful results achieved by crop scientists in food legumes research and development over the years are scattered in different journals of the World The two volumes in the series Alien Gene Transfer in Crop Plants address this issue and offer a comprehensive reference on the developments made in major food crops of the world These volumes aim at bringing the contributions from globally renowned scientists at one platform in a reader friendly manner The 1st volume entitled Alien Gene Transfer in Crop Plants Innovations Methods and Risk Assessment will deal exclusively with the process and methodology The contents of this volume have been designed to appraise the readers with all the theoretical and practical aspects of wide hybridization and gene transfer like processes and methods of gene transfer role of biotechnology with special reference to embryo rescue genetic transformation protoplast fusion and molecular marker technology problems such as cross incompatibility and barriers to distant hybridization and solutions to overcome them Since wild and weedy relatives of crop plants may have negative traits associated with them there are always possibilities of linkage drag while transferring alien alleles Therefore problems and limitations of alien gene transfer from these species will also be discussed in this series Further the associated risks with this and assessment of risks will also be given due weightage *Plant Biotechnology, Volume 1* Bishun Deo Prasad, Sangita Sahni, Prasant Kumar, Mohammed Wasim Siddiqui, 2017-12-22 This book first of this new two volume set provides an informative tour of the basics of biotechnology to recent advances in biotechnology Knowledge of new and fresh approaches is a prerequisite to solving plant biological problems and to this end the editors have brought together a group of contributors who address the most recent techniques and their applications in plant biotechnology The chapters discuss some recent techniques such as TILLING Targeting Induced Local Lesions In Genomes advances in molecular techniques to study diversity protein purification and methods and analysis in protein protein interaction detection The volume also covers molecular markers and QTL mapping including four chapters that deal with different molecular markers development of mapping populations and association mapping for dissecting the genetic basis of

complex traits in plants in sufficient detail The knowledge of biotechnology techniques and their applications will be valuable for researchers and scientists as well as for the many students engaged in plant biotechnology studies *Plant Biology and Biotechnology* Bir Bahadur, Manchikatla Venkat Rajam, Leela Sahijram, K. V. Krishnamurthy, 2015-06-19 Plant genomics and biotechnology have recently made enormous strides and hold the potential to benefit agriculture the environment and various other dimensions of the human endeavor It is no exaggeration to claim that the twenty first century belongs to biotechnology Knowledge generation in this field is growing at a frenetic pace and keeping abreast of the latest advances and calls on us to double our efforts Volume II of this two part series addresses cutting edge aspects of plant genomics and biotechnology It includes 37 chapters contributed by over 70 researchers each of which is an expert in his her own field of research Biotechnology has helped to solve many conundrums of plant life that had long remained a mystery to mankind This volume opens with an exhaustive chapter on the role played by thale cress *Arabidopsis thaliana* which is believed to be the *Drosophila* of the plant kingdom and an invaluable model plant for understanding basic concepts in plant biology This is followed by chapters on bioremediation biofuels and biofertilizers through microalgal manipulation making it a commercializable prospect discerning finer details of biotic stress with plant fungal interactions and the dynamics of abiotic and biotic stresses which also figure elsewhere in the book Breeding crop plants for desirable traits has long been an endeavor of biotechnologists The significance of molecular markers marker assisted selection and techniques are covered in a dedicated chapter as are comprehensive reviews on plant molecular biology DNA fingerprinting techniques genomic structure and functional genomics A chapter dedicated to organellar genomes provides extensive information on this important aspect Elsewhere in the book the newly emerging area of epigenetics is presented as seen through the lens of biotechnology showcasing the pivotal role of DNA methylation in effecting permanent and transient changes to the genome Exclusive chapters deal with bioinformatics and systems biology Handy tools for practical applications such as somatic embryogenesis and micropropagation are included to provide frontline information to entrepreneurs as is a chapter on somaclonal variation Overcoming barriers to sexual incompatibility has also long been a focus of biotechnology and is addressed in chapters on wide hybridization and hybrid embryo rescue Another area of accomplishing triploids through endosperm culture is included as a non conventional breeding strategy Secondary metabolite production through tissue cultures which is of importance to industrial scientists is also covered Worldwide exchange of plant genetic material is currently an essential topic as is conserving natural resources in situ Chapters on in vitro conservation of extant threatened and other valuable germplasms gene banking and related issues are included along with an extensive account of the biotechnology of spices the low volume high value crops Metabolic engineering is another emerging field that provides commercial opportunities As is well known there is widespread concern over genetically modified crops among the public GM crops are covered as are genetic engineering strategies for combating biotic and abiotic stresses where no other solutions

are in sight RNAi and micro RNA based strategies for crop improvement have proved to offer novel alternatives to the existing non conventional techniques and detailed information on these aspects is also included The book s last five chapters are devoted to presenting the various aspects of environmental marine desert and rural biotechnology The state of the art coverage on a wide range of plant genomics and biotechnology topics will be of great interest to post graduate students and researchers including the employees of seed and biotechnology companies and to instructors in the fields of plant genetics breeding and biotechnology

Haploids in Plant Breeding Werner Nitzsche, Gerhard Wenzel, 1977 Aims in haploid breeding
Production of haploid plants Aspects of population genetics Production and use of haploids Use of haploid cell cultures

Genetic Resources, Chromosome Engineering, and Crop Improvement Ram J. Singh, Prem P. Jauhar, 2005-03-16
The first book in this new series discusses grain legumes which rank only second to cereals in supplying calories and protein to the world s population With each chapter written by an internationally renowned scientist the book reviews the role of alien germplasm for the domestication of each major legume crop Discussion for each crop covers or

New Genetical Approaches to Crop Improvement Khushnood Ahmed Siddiqui, Akhtar Mahmud Faruqi, 1986

Advances in breeding techniques for cereal crops Prof Frank Ordon, Prof. Wolfgang Friedt, 2019-06-28 Assesses performance of conventional techniques such as backcross and hybrid breeding in introducing new traits Maps current progress in methods to identify quantitative trait loci QTL linking phenotypic traits with genetic information for selection Shows comparative strengths and weaknesses of marker assisted selection MAS techniques such as genome wide association studies GWAS and nested association mapping NAM

In Vitro Haploid Production in Higher Plants S. Mohan Jain, S.K. Sopory, Ricahrd Veilleux, 1996-07-31 Since the beginning of agricultural production there has been a continuous effort to grow more and better quality food to feed ever increasing popula tions Both improved cultural practices and improved crop plants have allowed us to divert more human resources to non agricultural activities while still increasing agricultural production Malthusian population predictions continue to alarm agricultural researchers especially plant breeders to seek new technologies that will continue to allow us to produce more and better food by fewer people on less land Both improvement of existing cultivars and development of new high yielding cultivars are common goals for breeders of all crops In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm available for many crops that was used to implement one of the greatest plant breeding success stories of this century i e the development of hybrid maize by crosses of inbred lines One of the main applications of anther culture has been to produce diploid homozygous pure lines in a single generation thus saving many generations of backcrossing to reach homozygosity by traditional means or in crops where self pollination is not possible Because doubled haploids are equivalent to inbred lines their value has been appreciated by plant breeders for decades The search for natural haploids and methods to induce them has been ongoing since the beginning of the 20th century

Isozymes in Plant Genetics and Breeding

Steven D. Tanksley, Thomas J. Orton, 1983 Written by a distinguished group of international authorities this is the first comprehensive review of the role of isozymes in plant genetics and breeding Comprising two parts it assembles a wealth of information on a broad spectra of plant groups Part A opens with an introductory section giving a thorough overview and historical perspective of plant genetic and isozyme research This is followed by studies involving basic scientific concepts the role of enzyme electrophoresis in plant breeding the use of isozymes in seed production and variety protection and electrophoretic protocols Part B is entirely devoted to summarizing in detail the current status of isozyme research in individual plant species The scope of this monograph is such that it will be of great interest to a wide range of scientists including those in biochemistry molecular genetics evolutionary biology cytogenetics physiology and plant breeding

Plant Mutation Breeding for Crop Improvement International Atomic Energy Agency, 1991 Proceedings of a symposium jointly organized by the IAEA and FAO Vienna 18-22 June 1990 The technology of mutation induction has been accepted by plant breeders as a valuable additional tool for creating improved cultivars for agriculture and horticulture It was amply demonstrated at the symposium that this technique has been applied with great success in many annual seed propagated crops such as rice barley wheat cotton soybean and pea The technological problems identified primarily concerned vegetatively propagated crops and in general the logistic difficulties in identifying desirable mutants in large mutagenized populations

Induced Mutations and Molecular Techniques for Crop Improvement International Atomic Energy Agency, 1995 Proceedings of a symposium jointly organized by the IAEA and FAO Vienna 19-23 June 1995 The aim of the symposium was to review current aspects of mutation and molecular biology techniques for use in crop improvement and to bridge the gap between practical plant breeding and molecular techniques Problems of crop improvement worldwide and their possible solution were discussed It was concluded that use of all available approaches including mutation and molecular biology techniques will be crucial to future plant breeding programmes in order to meet the world's food production challenges

The Philippine Journal of Crop Science, 1993 International Workshop on Biotechnology in Agriculture S. Natesh, V. L. Chopra, 1987 On plant molecular biology and biotechnology *Cell and Tissue Culture in Field Crop Improvement*, 1988 Advances in Plant Tissue Culture Avinash Chandra Rai, Ajay Kumar, Arpan Modi, Major Singh, 2022-05-28 *Advances in Plant Tissue Culture Current Developments and Future Trends* provides a complete and up to date text on all basic and applied aspects of plant tissue cultures and their latest application implications It will be beneficial for students and early career researchers of plant sciences and plant agricultural biotechnology Plant tissue culture has emerged as a sustainable way to meet the requirements of fresh produces horticultural crops medicinal or ornamental plants Nowadays plant tissue culture is an emerging field applied in various aspects including sustainable agriculture plant breeding horticulture and forestry This book covers the latest technology broadly applied for crop improvement clonal propagation Somatic hybridization Embryo rescue Germplasm conservation genetic conservation or for

the preservation of endangered species However these technologies also play a vital role in breaking seed dormancy over conventional methods of conservation Focuses on plant tissue culture as an emerging field applied in various aspects including sustainable agriculture plant breeding horticulture and forestry Includes current studies and innovations in biotechnology Covers commercialization and current perspectives in the field of plant tissue culture techniques

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Table of Contents Haploids In Crop Improvement One

1. Understanding the eBook Haploids In Crop Improvement One
 - The Rise of Digital Reading Haploids In Crop Improvement One
 - Advantages of eBooks Over Traditional Books
2. Identifying Haploids In Crop Improvement One
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Haploids In Crop Improvement One
 - User-Friendly Interface
4. Exploring eBook Recommendations from Haploids In Crop Improvement One
 - Personalized Recommendations
 - Haploids In Crop Improvement One User Reviews and Ratings
 - Haploids In Crop Improvement One and Bestseller Lists
5. Accessing Haploids In Crop Improvement One Free and Paid eBooks

- Haploids In Crop Improvement One Public Domain eBooks
 - Haploids In Crop Improvement One eBook Subscription Services
 - Haploids In Crop Improvement One Budget-Friendly Options
6. Navigating Haploids In Crop Improvement One eBook Formats
 - ePub, PDF, MOBI, and More
 - Haploids In Crop Improvement One Compatibility with Devices
 - Haploids In Crop Improvement One Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Haploids In Crop Improvement One
 - Highlighting and Note-Taking Haploids In Crop Improvement One
 - Interactive Elements Haploids In Crop Improvement One
 8. Staying Engaged with Haploids In Crop Improvement One
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Haploids In Crop Improvement One
 9. Balancing eBooks and Physical Books Haploids In Crop Improvement One
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Haploids In Crop Improvement One
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Haploids In Crop Improvement One
 - Setting Reading Goals Haploids In Crop Improvement One
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Haploids In Crop Improvement One
 - Fact-Checking eBook Content of Haploids In Crop Improvement One
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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