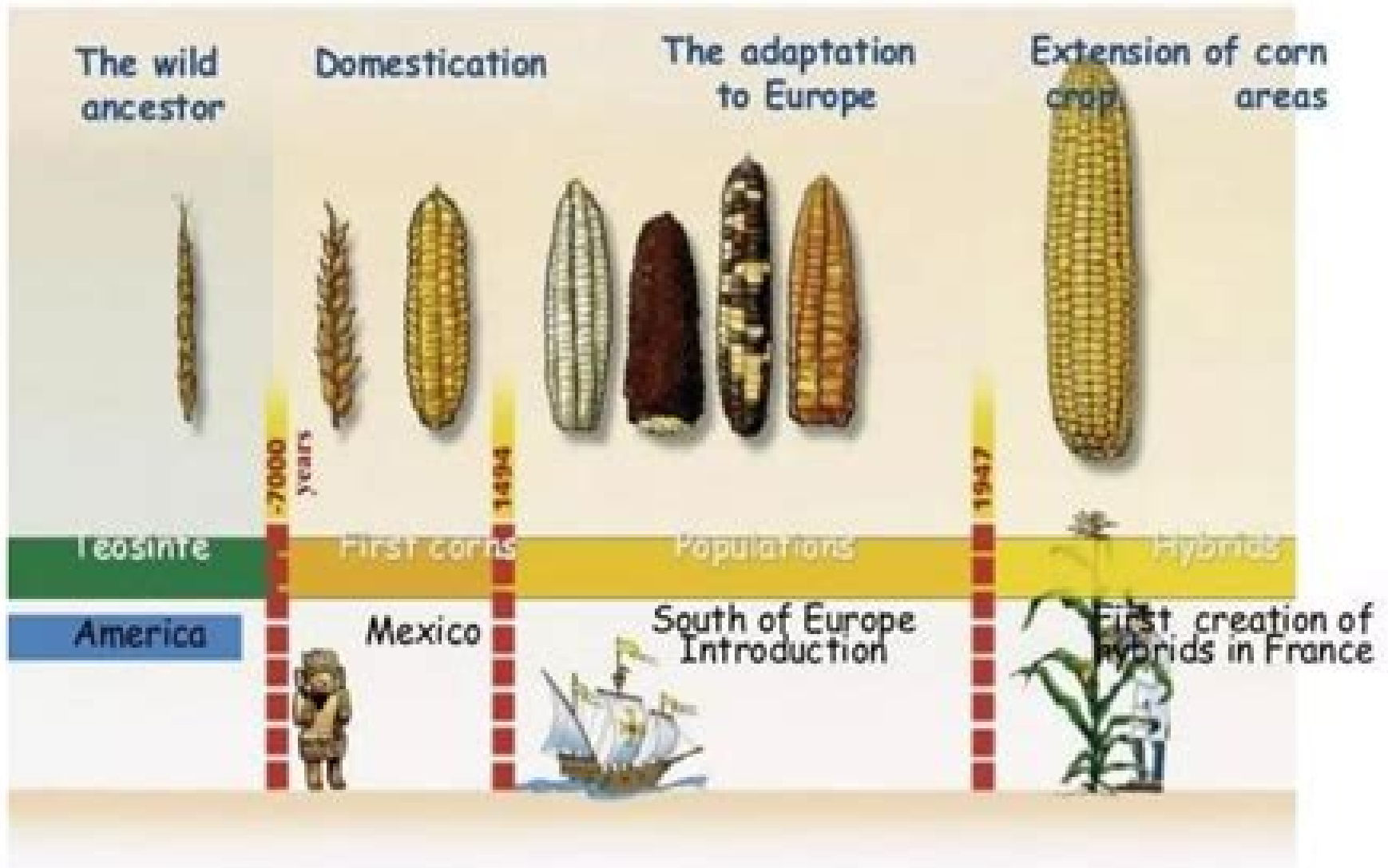


The evolution of maize



Maize Breeding And Genetics

David B. Walden



Maize Breeding And Genetics:

Maize Breeding and Genetics David B. Walden, 1978 History Evolution Breeding Diseases and insects Endosperm Tissue Gene action Cytogenetics **Quantitative Genetics in Maize Breeding** Arnel R. Hallauer, Marcelo J. Carena, J.B. Miranda Filho, 2010-09-28 Maize is used in an endless list of products that are directly or indirectly related to human nutrition and food security Maize is grown in producer farms farmers depend on genetically improved cultivars and maize breeders develop improved maize cultivars for farmers Nikolai I Vavilov defined plant breeding as plant evolution directed by man Among crops maize is one of the most successful examples for breeder directed evolution Maize is a cross pollinated species with unique and separate male and female organs allowing techniques from both self and cross pollinated crops to be utilized As a consequence a diverse set of breeding methods can be utilized for the development of various maize cultivar types for all economic conditions e g improved populations inbred lines and their hybrids for different types of markets Maize breeding is the science of maize cultivar development Public investment in maize breeding from 1865 to 1996 was 3 billion Crosbie et al 2004 and the return on investment was 260 billion as a consequence of applied maize breeding even without full understanding of the genetic basis of heterosis The principles of quantitative genetics have been successfully applied by maize breeders worldwide to adapt and improve germplasm sources of cultivars for very simple traits e g maize flowering and very complex ones e g grain yield For instance genomic efforts have isolated early maturing genes and QTL for potential MAS but very simple and low cost phenotypic efforts have caused significant and fast genetic progress across genotypes moving elite tropical and late temperate maize northward with minimal investment Quantitative genetics has allowed the integration of pre breeding with cultivar development by characterizing populations genetically adapting them to places never thought of e g tropical to short seasons improving them by all sorts of intra and inter population recurrent selection methods extracting lines with more probability of success and exploiting inbreeding and heterosis Quantitative genetics in maize breeding has improved the odds of developing outstanding maize cultivars from genetically broad based improved populations such as B73 The inbred hybrid concept in maize was a public sector invention 100 years ago and it is still considered one of the greatest achievements in plant breeding Maize hybrids grown by farmers today are still produced following this methodology and there is still no limit to genetic improvement when most genes are targeted in the breeding process Heterotic effects are unique for each hybrid and exotic genetic materials e g tropical early maturing carry useful alleles for complex traits not present in the B73 genome just sequenced while increasing the genetic diversity of U S hybrids Breeding programs based on classical quantitative genetics and selection methods will be the basis for proving theoretical approaches on breeding plans based on molecular markers Mating designs still offer large sample sizes when compared to QTL approaches and there is still a need to successful integration of these methods There is a need to increase the genetic diversity of maize hybrids available in the market e g there is a need to increase the number of early maturing testers in the

northern U S Public programs can still develop new and genetically diverse products not available in industry However public U S maize breeding programs have either been discontinued or are eroding because of decreasing state and federal funding toward basic science Future significant genetic gains in maize are dependent on the incorporation of useful and unique genetic diversity not available in industry e g NDSU EarlyGEM lines The integration of pre breeding methods with cultivar development should enhance future breeding efforts to maintain active public breeding programs not only adapting and improving genetically broad based germplasm but also developing unique products and training the next generation of maize breeders producing research dissertations directly linked to breeding programs This is especially important in areas where commercial hybrids are not locally bred More than ever public and private institutions are encouraged to cooperate in order to share breeding rights research goals winter nurseries managed stress environments and latest technology for the benefit of producing the best possible hybrids for farmers with the least cost We have the opportunity to link both classical and modern technology for the benefit of breeding in close cooperation with industry without the need for investing in academic labs and time e g industry labs take a week vs months years in academic labs for the same work This volume as part of the Handbook of Plant Breeding series aims to increase awareness of the relative value and impact of maize breeding for food feed and fuel security Without breeding programs continuously developing improved germplasm no technology can develop improved cultivars Quantitative Genetics in Maize Breeding presents principles and data that can be applied to maximize genetic improvement of germplasm and develop superior genotypes in different crops The topics included should be of interest of graduate students and breeders conducting research not only on breeding and selection methods but also developing pure lines and hybrid cultivars in crop species This volume is a unique and permanent contribution to breeders geneticists students policy makers and land grant institutions still promoting quality research in applied plant breeding as opposed to promoting grant monies and indirect costs at any short term cost The book is dedicated to those who envision the development of the next generation of cultivars with less need of water and inputs with better nutrition and with higher percentages of exotic germplasm as well as those that pursue independent research goals before searching for funding Scientists are encouraged to use all possible breeding methodologies available e g transgenics classical breeding MAS and all possible combinations could be used with specific sound long and short term goals on mind once germplasm is chosen making wise decisions with proven and scientifically sound technologies for assisting current breeding efforts depending on the particular trait under selection Arnel R Hallauer is C F Curtiss Distinguished Professor in Agriculture Emeritus at Iowa State University ISU Dr Hallauer has led maize breeding research for mid season maturity at ISU since 1958 His work has had a worldwide impact on plant breeding programs industry and students and was named a member of the National Academy of Sciences Hallauer is a native of Kansas USA Jos B Miranda Filho is full professor in the Department of Genetics Escola Superior de Agricultura Luiz de Queiroz University of S o Paulo located at Piracicaba Brazil His research interests

have emphasized development of quantitative genetic theory and its application to maize breeding Miranda Filho is native of Pirassununga S o Paulo Brazil M J Carena is professor of plant sciences at North Dakota State University NDSU Dr Carena has led maize breeding research for short season maturity at NDSU since 1999 This program is currently one the of the few public U S programs left integrating pre breeding with cultivar development and training in applied maize breeding He teaches Quantitative Genetics and Crop Breeding Techniques at NDSU Carena is a native of Buenos Aires Argentina <http://www.ag.ndsu.nodak.edu/plantsci/faculty/Carena.htm>

Maize Genetics And Breeding In The 20th Century Peter A Peterson,Angelo Bianchi,1999-01-18 This book provides the biographies and a related summary of geneticists and breeders of maize who have contributed to the major discoveries in the 20th century Their relationships to one another as well as the general developments in maize genetics and breeding growth are included Photographs of events and related personnel all part of the biographic presentation portray the maize community and its growth Most of the geneticists and breeders have a common origin in their training and their sucessors are among the current contributors to maize development **Genetics, Genomics and Breeding of Maize** Ramakrishna Wusirika,Martin Bohn,Jinsheng Lai,Chittaranjan Kole,2014-08-05

Sequencing of the maize genome has opened up new opportunities in maize breeding genetics and genomics research This book highlights modern trends in development of hybrids analysis of genetic diversity molecular breeding comparative and functional genomics epigenomicsand proteomics in maize The use of maize in biofuels phytoremediation and **Impacts of International Maize Breeding Research in Developing Countries, 1966-98** Michael L. Morris,2002 Why maize is different from other crops Investment in maize breeding research Products of maize breeding research Adoption of modern varieties MVs Economic benefits associated with MV adoption [Advances in Genetic Enhancement of Early and Extra-Early Maize for Sub-Saharan Africa](#)

Baffour Badu-Apraku,M.A.B. Fakorede,2017-11-10 The book focuses on the principles and practices of tropical maize improvement with special emphasis on early and extra early maize to feed the increasing population in Sub Saharan Africa It highlights the similarities and differences between results obtained in temperate regions of the world and WCA in terms of corroboration or refutation of genetic principles and theory of maize breeding The book is expected to be of great interest to maize breeders advanced undergraduates graduate students professors and research scientists in the national and international research institutes all over the world particularly Sub Saharan Africa It will also serve as a useful reference for agricultural extension and technology transfer systems Non governmental Organizations NGOs and Community Based Organizations CBOs seed companies and community based seed enterprises policy makers and all those who are interested in generating wealth from agriculture and alleviating hunger and poverty in Sub Saharan Africa **Handbook of Maize** Jeff L. Bennetzen,Sarah C. Hake,2009-01-16 Maize is one of the world s highest value crops with a multibillion dollar annual contribution to agriculture The great adaptability and high yields available for maize as a food feed and forage crop have led to its current production on over 140 million hectares worldwide

with acreage continuing to grow at the expense of other crops In terms of tons of cereal grain produced worldwide maize has been number one for many years Moreover maize is expanding its contribution to non food uses including as a major source of ethanol as a fuel additive or fuel alternative in the US In addition maize has been at the center of the transgenic plant controversy serving as the first food crop with released transgenic varieties By 2008 maize will have its genome sequence released providing the sequence of the first average size plant genome the four plant genomes that are now sequenced come from unusually tiny genomes and of the most complex genome sequenced from any organism Among plant science researchers maize has the second largest and most productive research community trailing only the Arabidopsis community in scale and significance At the applied research and commercial improvement levels maize has no peers in agriculture and consists of thousands of contributors worthwhile A comprehensive book on the biology of maize has not been published The Handbook of Maize the Genetics and Genomics center on the past present and future of maize as a model for plant science research and crop improvement The books include brief focused chapters from the foremost maize experts and feature a succinct collection of informative images representing the maize germplasm collection *Genetic Variance and Small Number of Parents in Maize Breeding Populations* Dindo Agustin Tabanao,2006 *Maize genetic resources* ,1995

Handbook of Maize Jeff L. Bennetzen, Sarah C. Hake, 2009-01-15 Maize is one of the world s highest value crops with a multibillion dollar annual contribution to agriculture The great adaptability and high yields available for maize as a food feed and forage crop have led to its current production on over 140 million hectares worldwide with acreage continuing to grow at the expense of other crops In terms of tons of cereal grain produced worldwide maize has been number one for many years Moreover maize is expanding its contribution to non food uses including as a major source of ethanol as a fuel additive or fuel alternative in the US In addition maize has been at the center of the transgenic plant controversy serving as the first food crop with released transgenic varieties By 2008 maize will have its genome sequence released providing the sequence of the first average size plant genome the four plant genomes that are now sequenced come from unusually tiny genomes and of the most complex genome sequenced from any organism Among plant science researchers maize has the second largest and most productive research community trailing only the Arabidopsis community in scale and significance At the applied research and commercial improvement levels maize has no peers in agriculture and consists of thousands of contributors worthwhile A comprehensive book on the biology of maize has not been published The Handbook of Maize the Genetics and Genomics center on the past present and future of maize as a model for plant science research and crop improvement The books include brief focused chapters from the foremost maize experts and feature a succinct collection of informative images representing the maize germplasm collection *Genetics, Biotechnology and Breeding of Maize and Sorghum* Eucarpia. Maize and Sorghum Section. Congress,1997 This book indicates our present state of knowledge in this important and broad field with particular emphasis given to the use of maize as a model and representative species **Maize Breeding** Sain

Dass, Chikkappa Gangadhar Karjagi, Deepak Kumar Singh, Madhulika Singh, 2025-09-27 This comprehensive volume offers an in depth exploration of maize one of the world's most vital cereal crops. The book covers a wide range of topics including maize genetics and breeding, physiology, crop production, protection, seed production and value addition. It integrates current knowledge across key domains such as agronomy, pathology, entomology, biotechnology, biochemistry and farm mechanization with special emphasis on different maize variants. Unlock the full potential of one of the world's most vital crops with Production Protection and Management for Optimization of Natural Resources. This volume brings together cutting edge research and practical insights across every critical domain of maize production and improvement. With in depth chapters on genetics and breeding, biotechnology, physiology, agronomy, genomics, mechanization, biochemistry, entomology, pathology, seed production and allied chapters on speciality corn and value added products, this book serves as an essential resource for researchers, students, policymakers, extension workers, farmers and agri professionals seeking a holistic understanding of maize as both a crop and a commodity. Presented in accessible language with visual aids where needed, the book guides readers through every stage of the crop cycle from seed to seed while emphasizing best practices, climatic requirements and sustainable management. Approximately 80% of maize is used as animal feed or for human consumption making it a cornerstone of global food security. To ensure optimal productivity it is essential to understand the crop in depth and adhere to appropriate management practices and environmental requirements such as temperature and humidity. **Leveraging**

Genetic Diversity in Maize Breeding Alden Perkins, 2024. Maize (*Zea mays* L.) cultivars grown in the United States are not closely related to cultivars found in many other parts of the world and pedigree records suggest that there has been little use of germplasm from other countries in US maize breeding. Exotic germplasm could be a useful source of alleles for improving traits such as grain quality, disease resistance and abiotic stress tolerance in US populations. Exotic cultivars may also contain alleles that confer adaptation to different climate conditions and management practices however which could be detrimental in US growing environments. This dissertation contains a review article about the importance of genetic diversity in breeding and three research projects that involve the incorporation of exotic diversity into US maize germplasm. In the first research project we investigated the effects of introgressions from open pollinated populations that originated in Latin America on the performance of maize hybrids in US environments. We compared the phenotypic stability of exotic derived hybrids and US adapted hybrids and we found that the two groups had significantly different stability values for grain yield and flowering time. In the second project we estimated the effects of exotic introgressions contained in maize populations created by a public private partnership on grain protein content, kernel vitreousness and other agronomic traits. One introgression was estimated to increase grain protein content by 0.78% although it was also associated with detrimental changes in the time of flowering and plant height. Finally we compared models that could be used to predict the phenotypes of untested hybrids in diverse populations which could make the process of incorporating new diversity into US germplasm more efficient. We found

that models using near infrared absorbance data collected on inbred seeds as predictors were inferior to models based on genotypic data in most cases although the difference between the methods was small for traits such as grain moisture and test weight An alternative to the standard genomic best linear unbiased prediction GBLUP method that included additional regularization called the sparse selection index method was superior to GBLUP models when large training populations were available Collectively the results from these projects provide new insights into how exotic germplasm can be used in US maize breeding most effectively

Plant Genetic Resources B. S. Dhillon, 2006 Food is the basic need of human beings The increasing population and enhanced standard of living are placing greater demands on food related requirements in terms of quantity quality and diversity The Green Revolution which significantly enhanced productivity of important food crops nevertheless resulted in certain fallouts as genetic erosion soil degradation chemical pollution and aquifer depletion Amongst these decrease in plant genetic diversity is an irreversible loss As the basic raw material for future plant breeding plant genetic resources of foodgrains are the key to future food security Though plant breeding has attracted the attention of many authors plant genetic resources remain somewhat neglected This book gives an overall perspective current status of genetic resource of important foodgrain crops wheat rice maize barley sorghum millets pulses and legumes and underutilized crops It provides a comprehensive compilation on current status of information on origin taxonomy diversity collection exchange evaluation utilization molecular characterization and conservation for food grain crops Eminent scientists and crop specialists have critically analyzed the information in view of the present and future research priorities In addition management issue related to plant genetic resources are also discussed At present such information on these crops is lacking and this book fills in the void It shall serve as reference for genetic resource managers researchers teachers students and policy makers in biology and agriculture

Corn C. Wayne Smith, Javier Betrán, Edward C. A. Runge, 2004-03-08 Your all in one guide to corn This book provides practical advice on planting techniques and rates seed production treating plant diseases insect infestation and weeds harvesting processing and worldwide utilization This is the fourth and final volume in the series of comprehensive references on the major crops of the world Covers new biotechnology techniques for plant breeding and pest management Provides practical advice on planting techniques and rates seed production treating plant diseases insect infestation and weeds harvesting processing and worldwide utilization

Broadening the Genetic Base of Grain Cereals Mohar Singh, Sandeep Kumar, 2016-09-13 This book offers comprehensive coverage of important grain cereals including their origin and distribution crop gene pool level of diversity production constraints traits of importance for genetic base widening crop improvement methodologies genome mapping genomics for breeding and future strategies The chapters contributed by eminent crop researchers from around the world provide rare insights into the crop specific constraints and prospects drawing from their substantial experience As such the book offers an essential source of information for grain cereals scientists teachers students policy planners and developmental experts alike Grain cereals which comprise rice wheat

maize barley oats sorghum and millets are members of the grass family These crops are vital to human nutrition thanks to their roles as staple food crops in different parts of the globe Some of them are rich sources of carbohydrates which provide energy while others are important sources of minerals vitamins and proteins in addition to their medicinal properties In most cereals the existing variability among elite germplasm has been exploited to attain a desirable level of productivity However to make further breakthroughs in enhancing yield and improving stability in future crop cultivars new sources of genes alleles need to be identified in wild weedy species and incorporated into the cultivated varieties Though there have been many publications on various aspects of grain cereal improvement in the recent past to date this essential information has remained scattered among different periodicals *The Genetics and Exploitation of Heterosis in Crops* CIMMYT.,1997

Principles of Plant Genetics and Breeding George Acquaah,2009-03-12 Until recently plant breeders have depended primarily on classical tools to develop new and improved products for producers and consumers However with the advent of biotechnology breeders are increasingly incorporating molecular tools in their breeding work In recognition of the current state of methods and their application this text introduces both classical and molecular tools for plant breeding Topics such as biotechnology in plant breeding intellectual property risks emerging concepts decentralized breeding organic breeding and more are addressed in this state of the art text The final 8 chapters provide a useful reference on breeding the largest and most common crops In addition over 25 plant breeders share their professional experiences while illustrating concepts in the text Features include Comprehensive presentation of both classical and molecular plant breeding tools Industry highlight essays from over 25 professional plant breeders Chapter introductions summaries and discussion questions Easy reference glossary Reference chapters on breeding 8 of the largest and most common crops Artwork from the book is available to instructors online at <http://www.blackwellpublishing.com/acquaah> A An Instructor manual CD ROM for this title is available Please contact our Higher Education team at HigherEducation@wiley.com for more information *Plant Male Sterility Systems for Accelerating Crop Improvement* Abhishek Bohra,Ashok Kumar Parihar,Satheesh Naik SJ,Anup Chandra,2022-10-11 This book covers all aspects of hybrid breeding technologies applied for crop improvement in major field crops The different male sterility systems such as genetic male sterility GMS cytoplasmic male sterility CMS cytoplasmic and genetic male sterility CGMS and male sterility induced by the photoperiod PGMS temperature TGMS and chemicals are discussed in detail The different chapters in this book provide a timeline of the key breakthroughs witnessed in the field of plant male sterility technologies their application in hybrid breeding and the relevance to the current need for food security In depth insights into the genetic and regulatory mechanisms of plant male sterility have been presented This includes discussion on a variety of molecular players that induce male sterility and rescue male fertility in the hybrid plants To enhance this book's appeal more emphasis has been given on the modern emerging approaches such as construction of heterotic pools that could boost hybrid breeding for enhanced crop

performance amid climate change and growing population worldwide This book is a guide for growers and industries related to field and horticultural crops Further it is a useful reference for plant breeders researchers and extension workers and students The material can also be used for teaching undergraduate and postgraduate courses Genomics-Assisted Crop Improvement Rajeev K. Varshney, Roberto Tuberosa, 2007-12-13 This superb volume provides a critical assessment of genomics tools and approaches for crop breeding Volume 1 presents the status and availability of genomic resources and platforms and also devises strategies and approaches for effectively exploiting genomics research Volume 2 goes into detail on a number of case studies of several important crop and plant species that summarize both the achievements and limitations of genomics research for crop improvement

Maize Breeding And Genetics Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Maize Breeding And Genetics**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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