

Jeff Bennetzen • Sarah Hake

# Handbook of **Maize** Genetics and Genomics



Springer

# Handbook Of Maize Genetics And Genomics

**Jeff L. Bennetzen, Sarah C. Hake**



## **Handbook Of Maize Genetics And Genomics:**

**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.

*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. **Handbook**

**of Maize: Its Biology** Jeff L. Bennetzen, Sarah C. Hake, 2008-12-25 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. Beyond its major agricultural and economic contributions, maize has been a model species for genetics since it was the first plant to have a genetic map initially published by Emerson and colleagues in 1935. Such central genetic phenomena as telomeres, nucleolar organizers, transposable elements and epigenetic gene regulation were all discovered first in maize and later found to be universal eukaryotic genome properties. These central genetic contributions continue including the characterization of the structure and evolution of complex plant genomes. 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 worldwide. A comprehensive book on the biology of maize has not been published. In 1999, Peterson and Bianchi published *Maize Genetics and Breeding in the 20th Century*, a highly personal account of the last hundred years of maize genetics. In 1968 and 1996, two editions of *The Mutants of Maize* were published and these have been landmark books showing and briefly describing the contemporary genetic and molecular status of the maize mutant collection, a collection unsurpassed for any other organism, animal or plant. In the last seven years, there has been no publication targeting maize genetics, genomics or overall biology. Hence, a modern and comprehensive volume on the status and future of maize as a species for biological study is highly warranted. *Handbook of Maize: Its Biology* centers on the past, present and future of maize as a model for plant science research and crop improvement. The book includes brief, focused chapters from the foremost maize experts and features a succinct collection of informative images representing the maize germplasm collection.

**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, epigenomics and proteomics in maize. The use of maize in biofuels, phytoremediation and *Handbook of Maize: Its Biology* Jeff L. Bennetzen, Sarah C. Hake, 2008-11-01 *Handbook of Maize: Its Biology* centers on the past, present and future of maize as a model for plant science

research and crop improvement The book includes brief focused chapters from the foremost maize experts and features a succinct collection of informative images representing the maize germplasm collection

**Compendium of Bioenergy Plants** Stephen L. Goldman, Chittaranjan Kole, 2014-02-06 This book evaluates maize as a bioenergy fuel source from two perspectives It explores whether the input energy needed to generate fuel significantly exceeded by the energy harvested In examining this issue the chapters provide assessments of the social economic and political impact on fuel pricing food costs and the environmental challenge with corn biomass the engine of change It then examines whether corn be genetically improved so that its biomass is significantly increased its cellulose lignin complex made more amenable to harvesting and to processing and grown in regions not normally associated with its cultivation of food

*Abiotic stress: molecular genetics and genomics, Volume II* Mukesh Jain, Rohini Garg, Rajeev K. Varshney, Prasanta Kumar Subudhi,

**From Chromosomes to Mobile Genetic Elements** Lee B. Kass, 2024-06-27 This biography of Nobel Laureate Barbara McClintock 1902 1992 places her life and work in its social scientific and personal context The author examines the development of Barbara McClintock s scientific work and her influence upon individuals and upon the fields of cytogenetics and evolutionary biology in the period from 1902 to the present The history documents years of McClintock s notable and lauded scientific work long before she discovered and named transposable elements in the mid 1940s for which she ultimately received the Nobel Prize The biography employs documented evidence to expose demystify and provide clarity for legends and misinterpretations of McClintock s life and work Key Features Exposes and demystifies myths and legends told about McClintock s time in Missouri Clarifies the changing language of genes and genetics Places in perspective the history of McClintock s research Documents McClintock s family and early life before college Provides documented details of McClintock s time in Nazi Germany

*Brewing* Ian S Hornsey, 2015-10-20 It is believed that beer has been produced in some form for thousands of years the ancient Egyptians being one civilization with a knowledge of the fermentation process Beer production has seen many changes over the centuries and *Brewing Second Edition* brings the reader right up to date with the advances in the last decade Covering the various stages of beer production reference is also made to microbiology within the brewery and some pointers to research on the topic are given Written by a recently retired brewer this book will appeal to all beer lovers but particularly those within the industry who wish to understand the processes and will be relevant to students of food or biological sciences

**The God Problem** Howard Bloom, 2012-08-30 God s war crimes Aristotle s sneaky tricks Einstein s pajamas information theory s blind spot Stephen Wolfram s new kind of science and six monkeys at six typewriters getting it wrong What do these have to do with the birth of a universe and with your need for meaning Everything as you re about to see How does the cosmos do something it has long been thought only gods could achieve How does an inanimate universe generate stunning new forms and unbelievable new powers without a creator How does the cosmos create That s the central question of this book which finds clues in strange places Why A does not equal A Why one plus one does not equal two How

the Greeks used kickballs to reinvent the universe And the reason that Polish born Benoit Mandelbrot the father of fractal geometry rebelled against his uncle You'll take a scientific expedition into the secret heart of a cosmos you've never seen Not just any cosmos An electrifyingly inventive cosmos An obsessive compulsive cosmos A driven ambitious cosmos A cosmos of colossal shocks A cosmos of screaming stunning surprise A cosmos that breaks five of science's most sacred laws Yes five And you'll be rewarded with author Howard Bloom's provocative new theory of the beginning middle and end of the universe the Bloom toroidal model also known as the big bagel theory which explains two of the biggest mysteries in physics dark energy and why if antimatter and matter are created in equal amounts there is so little antimatter in this universe Called truly awesome by Nobel Prize winner Dudley Herschbach The God Problem will pull you in with the irresistible attraction of a black hole and spit you out again enlightened with the force of a big bang Be prepared to have your mind blown From the Hardcover edition     Epigenetics in Plants of Agronomic Importance: Fundamentals and Applications Raúl

Alvarez-Venegas, Clelia De-la-Peña, Juan Armando Casas-Mollano, 2019-04-26 Over the past few decades chromatin modulation has emerged as an important regulator of gene expression This second edition provides detailed information on the epigenetic mechanisms in plants illustrating the value of this research in plants of agronomic importance It examines recent advances regarding plants epigenetic regulation in response to abiotic and biotic types of stress the epigenetic basis of plant immunity evolution and functions of plant histones epigenetic variation and plant breeding and epigenome editing and crop improvement The content is intended to promote the development of future biotechnologies to manipulate and selectively activate inhibit proteins and metabolic pathways to counter pathogens to treat important diseases and to increase crop productivity The development of new fields like epigenome editing and RNA epigenetics will certainly improve our understanding of currently known epigenetic modifications and their roles in e.g. host pathogen interactions crop productivity and in response to environmental stimuli This volume contains twelve new revised chapters written by an international team of experts on plant epigenetics and addresses the needs of researchers and professionals in the fields of agronomics crop breeding epigenetics plant biochemistry plant developmental biology and related disciplines     **Collecting Experiments**

Bruno J. Strasser, 2019-06-07 Databases have revolutionized nearly every aspect of our lives Information of all sorts is being collected on a massive scale from Google to Facebook and well beyond But as the amount of information in databases explodes we are forced to reassess our ideas about what knowledge is how it is produced to whom it belongs and who can be credited for producing it Every scientist working today draws on databases to produce scientific knowledge Databases have become more common than microscopes voltmeters and test tubes and the increasing amount of data has led to major changes in research practices and profound reflections on the proper professional roles of data producers collectors curators and analysts Collecting Experiments traces the development and use of data collections especially in the experimental life sciences from the early twentieth century to the present It shows that the current revolution is best understood as the

coming together of two older ways of knowing collecting and experimenting the museum and the laboratory Ultimately Bruno J Strasser argues that by serving as knowledge repositories as well as indispensable tools for producing new knowledge these databases function as digital museums for the twenty first century

**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

***Advances in Agronomy***, 2013-12-17 *Advances in Agronomy* continues to be recognized as a leading reference and a first rate source for the latest research in agronomy As always the subjects covered are varied and exemplary of the myriad of subject matter dealt with by this long running serial Maintains the highest impact factor among serial publications in agriculture Presents timely reviews on important agronomy issues Enjoys a long standing reputation for excellence in the field

**Handbook of Plant and Crop Stress** Mohammad Pessarakli, 2016-04-19 The dynamic and expanding knowledge of environmental stresses and their effects on plants and crops have resulted in the compilation of a large volume of information in the last ten years since the publication of the second edition of the Handbook of Plant and Crop Stress With 90 percent new material and a new organization that reflects this incre

**Model Organisms in Plant Genetics** Ibrokhim Y. Abdurakhmonov, 2022-06-23 Model plants are required for research when targeted plant species are difficult to study or when research material is unavailable Importantly knowledge gained from model plants can be generally translated to other related plant species because many key cellular and molecular processes are conserved and regulated by blueprint genes inherited from a common ancestor Model Organisms in Plant Genetics addresses characteristics of model plants such as Arabidopsis moss

soybean maize and cotton highlighting their advantages and limitations as well as their importance in studies of plant development plant genome polyploidization adaptive selection evolution and domestication as well as their importance in crop improvement

**Plant Roots** Tom Beeckman, Amram Eshel, 2024-08-30 Following its predecessors Plant Roots The Hidden Half Fifth Edition is thoroughly updated and reports the major changes that have taken place in root research since the last edition published over 10 years ago Considered a widely acclaimed book in the field of plant sciences this edition includes a broad array of topics reflecting progress being made in the subdomains of root biology featuring chapters on modern topics while retained chapters are fully updated to demonstrate significant developments made in our understanding of root biology and in fast evolving research methodologies and techniques It reviews all root related processes from the evolution of roots in past eras to single cell genomics allowing readers to grasp an overall view of the state of the art research in this field Among the 104 contributors to this book are seasoned experts in the field as well as uprising specialists who have already made a distinguished mark in scientific literature All of the chapters are extensively referenced featuring specific information on any topic related to the biology of the hidden half of plants Featuring full color illustrations throughout this handbook is an essential source of information for both expert and novice root scientists

Evolution, Composition and Regulation of Supernumerary B Chromosomes Andreas Houben, Neil Jones, Cesar Martins, Vladimir Trifonov, 2019-04-25 Supernumerary B chromosomes Bs are dispensable genetic elements found in thousands of species of plants and animals and some fungi Since their discovery more than a century ago they have been a source of puzzlement as they only occur in some members of a population and are absent from others When they do occur they are often harmful and in the absence of selfishness based on mechanisms of mitotic and meiotic drive there appears to be no obvious reason for their existence Cytogeneticists have long wrestled with questions about the biological existence of these enigmatic elements including their lack of any adaptive properties apparent absence of functional genes their origin sequence organization and co evolution as nuclear parasites Emerging new technologies are now enabling researchers to step up a gear to look enthusiastically beyond the previous limits of the horizon and to uncover the secrets of these silent chromosomes This book provides a comprehensive guide to theoretical advancements in the field of B chromosome research in both animal and plant systems

**Plant Retrotransposons** Deepu Pandita, Anu Pandita, 2025-03-13 This book provides an up to date outlook on the origin evolution structure genomic organization expression regulation and transposition mechanism of retrotransposons in the plant genome and computational tools and algorithms to analyze retrotransposons across different species and their use as genetic tools in crop breeding and improvement The book also highlights the biotechnological applications of the retrotransposon transposable elements Previously dismissed as parasites selfish or JUNK DNA these elements are now recognized as Just Unexplored Novel Know how Retrotransposons play crucial roles in gene function genomic organization mutations stress responses genome regulation epigenomics diversity evolution and plant speciation Leveraging these as



biotechnological tools can help develop climate smart crops for sustainable agriculture

**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

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