



# Handbook of Maize

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# Handbook Of Maize Its Biology 1st Edition

**S Marginson**



## **Handbook Of Maize Its Biology 1st Edition:**

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. **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. *Whole*

*Grains* Shabir Ahmad Mir, Annamalai Manickavasagan, Manzoor Ahmad Shah, 2019-03-04 Whole grains play an important role

in healthy diets due to their potential role in minimizing the risk factors for several diseases Thus the need for a comprehensive work that addresses all aspects of whole grain technology including processing product development and nutrition values This book covers the technological nutritional and product development aspects of all whole grains including wheat rice barley rye sorghum millet maize and oats among others The book will review and summarize current knowledge in whole grains with the intent of being helpful to the food industry in the development of high quality whole grain products

**Key Features** Covers the technology for whole grain processing Promotes the utilization of whole grain products Provides the information about the nutritional components of whole grains Explores the health benefits of whole grains Presents the latest trends and safety concerns of whole grains The chapters include amaranth barley brown rice buckwheat maize millets oats quinoa rye sorghum and wheat In addition current trends in processing technology and product development for whole grains are explained in detail in a separate chapter The last chapter deals with the food safety management of whole grains Contributions from global experts in this field make this book a key reference material for all aspects of whole grains This book is suitable for students scientists and professionals in food science food engineering food technology food processing product development food marketing nutrition and other health sciences

*Corn* Sergio O. Serna-Saldivar, 2018-11-09 *Corn Chemistry and Technology* Third Edition provides a broad perspective on corn from expert agronomists food scientists and geneticists This encyclopedic storehouse of comprehensive information on all aspects of the world's largest crop in metric tons includes extensive coverage of recent development in genetic modification for the generation of new hybrids and genotypes New chapters highlight the importance of corn as a raw material for the production of fuel bioethanol and the emerging topic of phytochemicals or nutraceutical compounds associated to different types of corns and their effect on human health especially in the prevention of chronic diseases and cancer Written by international experts on corn and edited by a highly respected academic this new edition will remain the industry standard on the topic Presents new chapters that deal with specialty corns the production of first generation bioethanol and the important relationship of corn phytochemicals or nutraceuticals with human health Provides contributions from a new editor and a number of new contributors who bring a fresh take on this highly successful volume Includes vastly increased content relating to recent developments in genetic modification for the generation of new hybrids and genotypes Contains encyclopedic coverage of grain chemistry and nutritional quality of this extensively farmed product Covers the production and handling of corn with both food and non food applications

**Orphan Crops: Breeding and Biotechnology for Sustainable Agriculture, Food and Nutrition** Simon E. Bull, Jill Margaret Farrant, Rita Hogan Mumm, Zerihen Tadele, 2024-01-18 Orphan crops play an important role in food and nutrition security especially in growing economies where small holder farmers produce the majority of food Despite their importance in global agriculture and their often remarkable nutrient content and adaptation to challenging environmental conditions orphan crops have received limited attention by the scientific community and industry However the diversity of

neglected plant species provides a large genetic resource that could significantly contribute to broadening the biodiversity of trait desired crops for novel value chains sustainable development and food security The uptake of new plant breeding techniques notably genome editing as well as omic tools are now accelerating translation of basic research and facilitating the exploration of orphan crops These advancements also give rise to public and politic engagement discussions to maximize socio economic impact Given that the greatest need for food and nutritional security is in growing economies issues of food sovereignty and sustainability of their food systems become front and centre There is now an exceptional opportunity to tackle some of the major current challenges in agriculture including climate change sustainable cropping systems food quality and nutritional security through broadening research in wild relatives of crops and on orphan species This Research Topic seeks to showcase research on neglected plants using advanced molecular technologies e g genome sequencing omics etc and new plant breeding approaches methods and tools This Research Topic will also discuss the challenges and opportunities arising when modern breeding techniques are applied for translational research

*Next-Generation Plant Breeding Approaches for Stress Resilience in Cereal Crops* Mallana Gowdra Mallikarjuna,S. Chandra Nayaka,Tanushri Kaul,2022-09-15 This edited book highlights the gravity and efficacy of next generation breeding tools for the enhancement of stress resilience in cereals especially in the context of climate change pests diseases and abiotic stresses The content of the book helps in understanding the application of emerging genetic concepts and neoteric genomic approaches in cereal breeding It collates all the latest information about enhancing the stress resilience in cereal crops for overcoming food security issues Cereals have predominantly been used as a staple food since time immemorial and contribute more than 50% of the caloric requirement of the global population However in cereals the yield losses due to various stresses are very high considering the crop growth stage and stress sensitivity Therefore to feed and nourish the generations in the era of climate change it is imperative to develop stress resilient cereal cultivars This book explores newly developed next generation breeding tools viz genome wide association studies genomic prediction genome editing and accelerated generation advancement methodologies which revealed promising outcomes by enhancing the stress resilience in cereals with yield potential This book is useful for postgraduate students specializing in plant breeding plant stress physiology plant genomics agriculture and agronomy It is of immense value to scientific community involved in teaching research and extension activities related to cereal cultivation

*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 *The British National Bibliography* Arthur James Wells,2009

Agronomic Crops Mirza Hasanuzzaman,2020-03-09 Agronomic crops have been a source of foods beverages fodders fuels medicines and industrial raw materials since the dawn of human civilization Over time these crops have come to be cultivated using scientific methods instead of traditional methods However in the era of climate change agronomic crops are increasingly subjected to various environmental stresses which results in substantial yield loss To meet the food demands of the ever increasing global population new technologies and management practices are being adopted to boost yield and maintain productivity under both normal and adverse conditions To promote the sustainable production of agronomic crops scientists are currently exploring a range of approaches which include varietal development soil management nutrient and water management pest management etc Researchers have also made remarkable progress in developing stress tolerance in crops through various approaches However finding solutions to meet the growing food demands remains a challenge Although there are several research publications on the above mentioned problems there are virtually no comprehensive books addressing all of the recent topics Accordingly this book which covers all aspects of production technologies management practices and stress tolerance of agronomic crops in a single source offers a highly topical guide

**International Books in Print** ,1990 **The Maize Handbook** Michael Freeling, Virginia Walbot,2013-06-29 The Maize Handbook represents the collective efforts of the maize research community to enumerate the key steps of standard procedures and to disseminate these protocols for the common good Although the material in this volume is drawn from experience with maize many of the procedures protocols and descriptions are applicable to other higher plants particularly to other grasses The power and resolution of experiments with maize depend on the wide range of specialized genetic techniques and marked stocks these materials are available today as the culmination of nearly 100 years of genetic research A major goal of this volume is to introduce this genetical legacy and to highlight current stock construction programs that will soon benefit our work e.g high density RFLP maps deletion stocks etc Both stock construction and maintenance are relatively straightforward in maize as a result of the ease of crossing and the longevity of stored seeds Crossing is facilitated by the separate staminate tassel and pistillate ear flowers a feature almost unique to maize On the other hand many of the genetic methodologies utilized with maize including the precision of record keeping can be adapted to other plants Facile communication and a spirit of co operation have characterized the maize genetics community since its earliest days Starting in the 1930s institutions such as annual Maize Genetics Cooperation Newsletter the Maize Genetics Stock Center and the annual maize genetics meeting provide continuity to the field **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

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