



# Handbook of Maize

2nd Edition

Ed. by  
D. B. Bänziger

# Handbook Of Maize Its Biology

**Sabine Zange**



## **Handbook Of Maize Its Biology:**

**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. **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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**Handbook of Plant and Crop Physiology** Mohammad Pessarakli, 2021-07-12 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the third edition of the Handbook of Plant and Crop

**Physiology** Following its predecessors the fourth edition of this well regarded handbook offers a unique comprehensive and complete collection of topics in the field of plant and crop physiology Divided into eleven sections for easy access of information this edition contains more than 90 percent new material substantial revisions and two new sections The handbook covers the physiology of plant and crop growth and development cellular and molecular aspects plant genetics and production processes The book presents findings on plant and crop growth in response to climatic changes and considers the potential for plants and crops adaptation exploring the biotechnological aspects of plant and crop improvement This content is used to plan implement and evaluate strategies for increasing plant growth and crop yield Readers benefit from numerous tables figures case studies and illustrations as well as thousands of index words all of which increase the accessibility of the information contained in this important handbook New to the Edition Contains 37 new chapters and 13 extensively revised and expanded chapters from the third edition of this book Includes new or modified sections on soil plant water nutrients microorganisms physiological relations and on plant growth regulators both promoters and inhibitors Additional new and modified chapters cover the physiological responses of lower plants and vascular plants and crops to metal based nanoparticles and agrichemicals and the growth responses of plants and crops to climate change and environmental stresses With contributions from 95 scientists from 20 countries this book provides a comprehensive resource for research and for university courses covering plant and crop physiological responses under normal and stressful conditions ranging from cellular aspects to whole plants

**Grasses** Hansjoerg Kraehmer, 2019-06-12 Combines new findings on morphological aspects the latest data on gene function in grasses and the interaction of grasses with their habitats 45% of all arable land is covered by five grass crops wheat maize rice barley and sugar cane This book demonstrates why crops and weeds are growing in characteristic environments today and looks at how cropping practices may change in the future and how these changes will affect weed spectra It explains the distribution of grasses and their role for mankind and summarizes our knowledge on grass genomes Special emphasis is placed on the function of genes at defined developmental stages and in organs of grasses The development of grasses is then described from the germination to fruit set with many unpublished examples Grasses Crops Competitors and Ornamentals provides readers with a comparative description of selected grass organs stem root leaf inflorescence and devotes several chapters to habitats of grasses and morphological characteristics that enable grasses to grow in special environments In addition some chapters deal with grasses as crops and weeds and emphasis is placed on their adaptation to modern agriculture Predicts how cropping practices may change in the future and how these changes will affect weed spectra Details grasses as crops and weeds emphasizing their adaptation to modern agriculture Summarizes our knowledge on grass genomes Connects classical morphology with the latest tools in molecular biology as well as ecological aspects determining the wide distribution of grass species today Grasses Crops Competitors and Ornamentals will be of great interest to agricultural scientists who want to know more about crops and weeds grassland

specialists and breeders interested in special grass traits and molecular biologists and ecologists who study the biology and habitat of grasses

**Climate-Resilient Agriculture** Ashutosh Singh,Saurabh Pandey,2024-07-05 Developing climate smart crops is vital to securing food security around the world This new book discusses the state of the art technologies that can help to mitigate plant abiotic stresses in cultivated crops It covers the current aspects of climate resilience agriculture including the crucial physiological biochemical and molecular aspects of cultivated crops under stress conditions which play a pivotal role in developing climate smart crops The volume explores breeding omics genetic engineering bioengineering of metabolic pathways artificial intelligence and more Key features Addresses the current and future challenges of climate changes on food security Details the impact of different biotic abiotic stresses along with their interactions and effect on crop plants in climate changing scenarios Gives a comprehensive account of molecular mechanisms associated with different stresses in crop plants Discusses advances in breeding and biotechnological techniques to tackle the different stresses in challenging climatic fluctuations Highlights various emerging approaches and technologies currently being used in developing climate smart crops Provides success stories of crop improvement against the different stresses

Marker-assisted selection (MAS) in crop plants Baohua Wang,Peng Chee,Ting Peng,Muhammad Kashif Riaz Khan,2023-03-16

**Genomics-based breeding of crops for food and nutritional security in 21st century - volume 2** Reyazul Rouf Mir,Ajay Kumar,Manish Kumar Pandey,Mahendar Thudi,2023-07-05

Soil Productivity Enhancement Roland Nuhu Issaka,Mohammed Moro Buri,2018-11-28 Soil Productivity Enhancement comprises five chapters written by scientists from various parts of the world The book is divided into three sections 1 Conversion of Environmentally Polluting Waste into Fertilizer This section discusses the conversion of waste water and other by products from factories into organic fertilizers It further examines how these materials can be used to enhance crop production and improve soil productivity 2 Practices for Improving Nutrient Availability Good nutrient management and proper composting of organic materials are options that can be used to enhance the productivity of soil These and other practices are examined in this section 3 Policy on Fertilizer Use The need for effective policies to control and promote the effective and efficient use of fertilizers is discussed in this section

Advances in Plant Disease Management Pranjib K. Chakrabarty,Kalyan K. Mondal,Mahender S. Saharan,Charudatta Mayee,J. Kumar,2023-12-20 Advances in Plant Disease Management Volume I Fundamental and Basic Research is an invaluable compilation for researchers students stakeholders policymakers in agriculture The book aims to offer the latest understanding of fundamental and basic research fronts toward managing crop plants diseases After clearly explaining the updated knowledge on the host immune system and pathogen s interplay with the host as unraveled through genomics bioinformatics and molecular studies this book equips readers with the knowledge to confidently account for them during the formulation of management strategies for major crop plant diseases The book offers comprehensive coverage of the research advances in plant disease management including Newer insight into the host pathogen interaction including effector driven

pathogenesis in different host pathogen systems Updates on plant defense pathways leading to resistance to pathogens Use of novel molecules antagonists and genome editing tools toward manipulating host resistance Plant protection policies that support the agricultural production system from a global perspective      **Achieving sustainable cultivation of sugarcane** Volume 2 Prof. Philippe Rott, 2018-03-05 Covers key advances in breeding including conventional marker assisted and transgenic breeding techniques Summarises key advances in understanding bacterial fungal and viral diseases of sugarcane Assesses best practice in integrated disease pest and weed management      *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      **Molecular Marker Technology for Crop Improvement** José Miguel Soriano, 2021-01-15 Since the 1980s agriculture and plant breeding have changed with the development of molecular marker technology In recent decades different types of molecular markers have been used for different purposes mapping marker assisted selection characterization of genetic resources etc These have produced effective genotyping but the results have been costly and time consuming due to the small number of markers that could be tested simultaneously Recent advances in molecular marker technologies such as the development of high throughput genotyping platforms genotyping by sequencing and the release of the genome sequences of major crop plants have opened new possibilities for advancing crop improvement This Special Issue collects 16 research studies including the application of molecular markers in 11 crop species from the generation of linkage maps and diversity studies to the application of marker assisted selection and genomic prediction      **Engineering Tolerance in Crop Plants Against Abiotic Stress** Shah Fahad, Osman Sönmez, Shah Saud, Depeng Wang, Chao Wu, Muhammad Adnan, Muhammad Arif, Amanullah, 2021-10-28 Despite significant progress in increasing

agricultural production meeting the changing dietary preferences and increasing food demands of future populations remains a significant challenge Salinity drought water logging high temperature and toxicity are abiotic stresses that affect the crop yield and production Tolerance for stress is a important characteristic that plants need to have in order to survive Identification of proper techniques at a proper time can make it easy for scientists to increase crop productivity and yield In Engineering Tolerance in Crop Plants against Abiotic Stress we have discussed the possible stresses and their impact on crops and portrayed distinctive abiotic stress tolerance in response to different techniques that can improve the performance of crops Features of the Book Provide a state of the art description of the physiological biochemical and molecular status of the understanding of abiotic stress in plants Address factors that threaten future food production and provide potential solution to these factors Designed to cater to the needs of the students engaged in the field of environmental sciences soil sciences agricultural microbiology plant pathology and agronomy New strategies for better crop productivity and yield Understanding new techniques pointed out in this book will open the possibility of genetic engineering in crop plants with the concomitant improved stress tolerance      Genetics and Genomics of Setaria Andrew Doust,Xianmin Diao,2016-12-19 Setaria viridis and S italica make up a model grass system to investigate C4 photosynthesis cell wall biosynthesis responses to drought herbicide and other environmental stressors genome dynamics developmental genetics and morphology and interactions with microorganisms Setaria viridis green foxtail is one of the world s most widespread weeds and its small size native variation rapidly burgeoning genetic and genomic resources and transformability are making it the system of choice for both basic research and its translation into crop improvement Its domesticated variant S italica foxtail millet is a drought hardy cereal grown in China India and Africa and new breeding techniques show great potential for improving yields and nutrition for drought prone regions This book brings together for the first time evolutionary genomic genetic and morphological analyses together with protocols for growing and transforming Setaria and approaches to high throughput genotyping and candidate gene analysis Authors include major Setaria researchers from both the USA and overseas      Plant Biomechanics Anja Geitmann,Joseph Gril,2018-06-09 This book provides important insights into the operating principles of plants by highlighting the relationship between structure and function It describes the quantitative determination of structural and mechanical parameters such as the material properties of a tissue in correlation with specific features such as the ability of the tissue to conduct water or withstand bending forces which will allow advanced analysis in plant biomechanics This knowledge enables researchers to understand the developmental changes that occur in plant organs over their life span and under the influence of environmental factors The authors provide an overview of the state of the art of plant structure and function and how they relate to the mechanical behavior of the organism such as the ability of plants to grow against the gravity vector or to withstand the forces of wind They also show the sophisticated strategies employed by plants to effect organ movement and morphogenesis in the absence of muscles or cellular migration As such this book not



only appeals to scientists currently working in plant sciences and biophysics but also inspires future generations to pursue their own research in this area

**Beautiful Corn** Anthony Boutard, 2012-09-01 From seed to plate the seasons of a remarkable crop Cultivated from sea level to mountaintop from parched deserts to sodden rain forests from the rocky Gasp Peninsula to the plains of Argentina corn is the grain of the Americas In terms of culinary uses it is amazingly diverse reflecting the breathtaking variety of the continents and environments from which it evolved The consummate immigrant corn is grown extensively on every continent except Antarctica Market farmer and naturalist Anthony Boutard weaves together this unique plant's contribution to our culture its distinctive biology and the practical information needed to grow and enjoy it at home Beautiful Corn advocates a return to the nourishing whole grain that built America in place of today's genetically modified crops processed by industrial agriculture into synthetic sweeteners and cheap meat Come along on this lyrical and inspiring journey through the seasons learning about growing and using corn in the traditional way Gardeners and market farmers can lead the way to a healthier country by restoring heritage corn varieties to our tables An unabashed celebration of a much maligned culinary treasure Beautiful Corn will forever change the way you view this remarkable plant Anthony Boutard is a widely recognized advocate in the local food movement well known for his efforts in reviving long lost crops and bringing little known varieties to market He and his wife Carol own Ayers Creek Farm a 144 acre organic market farm in Gaston Oregon specializing in berries beans grains and greens for sale to local restaurants and markets

**Water Stress and Crop Plants** Parvaiz Ahmad, 2016-06-08 Plants are subjected to a variety of abiotic stresses such as drought temperature salinity air pollution heavy metals UV radiations etc To survive under these harsh conditions plants are equipped with different resistance mechanisms which vary from species to species Due to the environmental fluctuations agricultural and horticultural crops are often exposed to different environmental stresses leading to decreased yield and problems in the growth and development of the crops Drought stress has been found to decrease the yield to an alarming rate of some important crops throughout the globe During last few decades lots of physiological and molecular works have been conducted under water stress in crop plants Water Stress and Crop Plants A Sustainable Approach presents an up to date in depth coverage of drought and flooding stress in plants including the types causes and consequences on plant growth and development It discusses the physiobiochemical molecular and omic approaches and responses of crop plants towards water stress Topics include nutritional stress oxidative stress hormonal regulation transgenic approaches mitigation of water stress approaches to sustainability and modern tools and techniques to alleviate the water stress on crop yields This practical book offers pragmatic guidance for scientists and researchers in plant biology and agribusinesses and biotechnology companies dealing with agronomy and environment to mitigate the negative effects of stress and improve yield under stress The broad coverage also makes this a valuable guide enabling students to understand the physiological biochemical and molecular mechanisms of environmental stress in plants

**Building Climate Resilience in Agriculture** Wajid Nasim

Jatoi, Muhammad Mubeen, Ashfaq Ahmad, Mumtaz Akhtar Cheema, Zhaohui Lin, Muhammad Zaffar Hashmi, 2021-10-21 This volume discusses the need to adopt Climate Resilient Agriculture CRA practices to address the increasing global impact that climate change has on agricultural productivity and agriculture dependent communities This approach applies technological policy and economic measures to achieve sustainable agricultural growth in the sectors of grain fruit vegetable fiber feed livestock fisheries and forestry with the ultimate goal of adapting and building resilience to climate change The book also uses GIS crop modeling and remote sensing techniques for future climate resilience applications in agriculture and covers pest control measures that avoid the use of pesticides to boost crop and livestock productivity for improved food security The book will be of interest to researchers and students in environmental science climate science sustainability and agriculture as well as policy makers and environmental organizations

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