

Maize For Biological Research

Edited by
William F. Sheridan
Department of Biology
University of North Dakota
Grand Forks, North Dakota

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WJ Hussar



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Maize for Biological Research William F. Sheridan, 1982

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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. *Maize Cobs and Cultures: History of Zea mays* L. John Staller, 2009-12-02. Our perceptions and conceptions regarding the roles and importance of maize to ancient economies is largely a product of scientific research on the plant itself, developed for the most part out of botanical research and its recent role as one of the most important economic staples in the world. Anthropological research in the early part of the last century

based largely upon the historical particularistic approach of the Boasian tradition provided the first evidence that challenged the assumptions about the economic importance of maize to sociocultural developments for scholars of prehistory

Subsequent ethnobotanic and archaeological studies showed that the role of maize among Native American cultures was much more complex than just as a food staple In *Maize Cobs and Cultures* John Staller provides a survey of the ethnohistory and the scientific botanical and biological research of maize complemented by reviews on the ethnobotanic interdisciplinary and multidisciplinary methodologies [Guide to Sources for Agricultural and Biological Research](#) J. Richard Blanchard, Lois Farrell, 2023-07-28

[HISTORIES OF MAIZE](#) John Staller, Robert Tykot, Bruce Benz, 2006-05-15 *Histories of Maize* is the most comprehensive reference source on the botanical genetic archaeological and anthropological aspects of ancient maize published to date

[Histories of Maize in Mesoamerica](#) John Staller, Robert Tykot, Bruce Benz, 2016-06-16 Abridged and updated version of the basic work on the development of maize including 20 chapters of interest to Mesoamerican specialists updated with recent findings and interpretations

Plant Breeding Reviews, Volume 19 Jules Janick, 2010-06-22 *Plant Breeding Reviews* presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods Many of the crops widely grown today stem from a very narrow genetic base understanding and preserving crop genetic resources is vital to the security of food systems worldwide The emphasis of the series is on methodology a fundamental understanding of crop genetics and applications to major crops

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Handbook of Plant Science, 2 Volume Set Keith Roberts, 2007-12-10

Plant Science like the biological sciences in general has undergone seismic shifts in the last thirty or so years. Of course science is always changing and metamorphosing but these shifts have meant that modern plant science has moved away from its previous more agricultural and botanical context to become a core biological discipline in its own right. However the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all, understanding it and evaluating it intelligently has never been harder for the new generation of plant scientists or for that matter established scientists. And that is precisely why this Handbook of Plant Science has been put together. Discover modern molecular plant sciences as they link traditional disciplines. Derived from the acclaimed Encyclopedia of Life Sciences. Thorough reference of up to the minute, reliable, self-contained, peer-reviewed articles cross-referenced throughout. Contains 255 articles and 48 full colour pages written by top scientists in each field. The Handbook of Plant Science is an authoritative source of up to date practical information for all teachers, students and researchers working in the field of plant science: botany, plant biotechnology, agriculture and horticulture.

Transgenic Crops IV Eng Chong Pua, Michael R. Davey, 2007-05-22

This volume presents the current knowledge of plant biotechnology as an important tool for crop improvement. It covers cereals, vegetables, root crops, herbs and spices. This volume is an invaluable reference for plant breeders, researchers and graduate students in the fields of plant biotechnology, agronomy, horticulture, genetics and both plant cell and molecular biology.

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Commerce, Justice, Science, and Related Agencies Appropriations for 2008 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2007

Isozymes in Plant Genetics and Breeding, 2012-12-02

Developments in Plant Genetics and Breeding 1 Isozymes in Plant Genetics and Breeding Part B focuses on the advancements in the processes methodologies principles and approaches involved in the study of isozymes including its role in plant genetics and breeding The selection first offers information on maize hexaploid wheat and barley Topics include polymorphism linkage relations esterases evolutionary and crop improvement studies special applications to genetics and breeding alcohol dehydrogenase amylase catalase and catechol oxidase The text then examines Secale and triticale oats rice and tomato The publication takes a look at potato peppers and tobacco Topics include biochemical characterization of isozymes isozymes in cell and tissue cultures glutamate dehydrogenase lactate dehydrogenase and xanthine dehydrogenase potato as a source of enzymes and data for esterases in basic gels The manuscript also tackles conifers eucalyptus fruit trees cucurbits and cole crops The selection is a valuable reference for researchers interested in the role of isozymes in plant genetics and breeding

Molecular Biology and Biotechnology of Plant Organelles Henry Daniell, Ph.D., Christine D. Chase, 2007-11-04 We have taught plant molecular biology and biotechnology at the undergraduate and graduate level for over 20 years In the past few decades the field of plant organelle molecular biology and biotechnology has made immense strides From the green revolution to golden rice plant organelles have revolutionized agriculture Given the exponential growth in research the problem of finding appropriate textbooks for courses in plant biotechnology and molecular biology has become a major challenge After years of handing out photocopies of various journal articles and reviews scattered through out the print and electronic media a serendipitous meeting occurred at the 2002 IATPC World Congress held in Orlando Florida After my talk and evaluating several posters presented by investigators from my laboratory Dr Jacco Flipsen Publishing Manager of Kluwer Publishers asked me whether I would consider editing a book on Plant Organelles I accepted this challenge after months of deliberations primarily because I was unsuccessful in finding a text book in this area for many years I signed the contract with Kluwer in March 2003 with a promise to deliver a camera ready textbook on July 1 2004 Given the short deadline and the complexity of the task I quickly realized this task would need a co editor Dr Christine Chase was the first scientist who came to my mind because of her expertise in plant mitochondria and she readily agreed to work with me on this book

Cellular and Molecular Biology of Plant Seed Development Brian A. Larkins, Indra K.

Vasil, 2013-03-09 The beginnings of human civilization can be traced back to the time nearly 12 000 years ago when the early humans gradually changed from a life of hunting and gathering food to producing food This beginning of primitive agriculture ensured a dependable supply of food and fostered the living together of people in groups and the development of society During this time plant seeds were recognized as a valuable source of food and nutrition and began to be used for growing plants for food Ever since plant seeds have played an important role in the development of the human civilization Even today seeds of a few crop species such as the cereals and legumes are the primary source of most human food and the predominant commodity in international agriculture Owing to their great importance as food for humans and in

international trade seeds have been a favorite object of study by developmental biologists and physiologists nutritionists and chemists A wealth of useful information is available on the biology of seeds *Plant Breeding Reviews, Volume 5* Jules Janick,2011-01-11 Plant Breeding Reviews is an ongoing series presenting state of the art review articles on research in plant genetics especially the breeding of commercially important crops Articles perform the valuable function of collecting comparing and contrasting the primary journal literature in order to form an overview of the topic This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists **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 **New Genome Editing Tools and Resources: Enabling Gene Discovery and Functional Genomics** Feng Zhang,Bing Yang,Qi-Jun Chen,Wendy Harwood,2021-12-01

Maize For Biological Research Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Maize For Biological Research**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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