



# Genetic Contributions to Yield Gains of Five Major Crop Plants

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# Genetic Contributions To Yield Gains Of Five Major Crop Plants

**Kenneth Frey**



## **Genetic Contributions To Yield Gains Of Five Major Crop Plants:**

Genetic Contributions to Yield Gains of Five Major Crop Plants W. R. Fehr, 1987      **Genetic Contributions to Yield Gains of Five Major Crop Plants** Walter R. Fehr, 1984      **The Use of Plant Genetic Resources** A. H. D. Brown, 1989-02-02 This 1989 volume stresses the way in which the pool of plant genetic resources provides vital raw material for producing new and improved crops      **Biochemical Aspects of Crop Improvement** K. R. Khanna, 2024-12-06 This book provides a comprehensive review at the biochemical and molecular level of the processes and techniques that contribute to crop improvement General topics include a historical perspective of the advancements in crop improvement cultivar systematics and biochemical and molecular markers in crop improvement programs the genetics of physiological and biochemical processes affecting crop yield the genetics of photosynthesis chloroplast relevant enzymes and mutations osmoregulation adjustment and the production of protective compounds in relation to drought tolerance and the biochemistry of disease resistance including elicitors defense response genes their role in the production of phytoalexins and other strategies against pathogens Other topics include quality breeding e g molecular gene structure changing individual amino acids enhancing nutritive value of proteins and biotechnology genetic engineering Geneticists biochemists botanists agricultural specialists and others involved in crop improvement and breeding should consider this volume essential reading

Yield Gains in Major U.S. Field Crops Stephen Smith, Brian Diers, James Specht, Brett F. Carver, 2020-01-22 When humankind began to save seed to plant for the next season they did so hoping to secure a food supply for the future With that came the inevitable question Will it be enough Scientists today are still asking that question Our dependence on domesticated cultivated varieties has never been greater even as increasing populations strain our resource base This book provides a fascinating snapshot in time account of the productivity status of all major U S field crops Each crop has a different story to tell Plant breeding biotechnology and agronomy have shaped these stories It is imperative that we learn from them to ensure continued productivity The solution is long term stewardship and the most effective use of our critical resources water soil genetic resources and human intellect      **Plant Breeding Reviews, Volume 24, Part 2** Jules Janick, 2010-04-07 Plant Breeding Reviews Volume 24 Part 2 presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods The emphasis of the series is on methodology a practical understanding of crop genetics and applications to major crops      **Gene Manipulation in Plant Improvement** J. Perry Gustafson, 2012-12-06 The results obtained to date involving the use of in methods to facilitate wide hybridization in plants are voluminous and impressive The techniques of embryo culture ovule culture and in pollination and fertilization represent an extension of the normal sexual hybridization process Successes recorded in obtaining hybrids stem largely from circumventing prezygotic or postzygotic hybridization barriers Numerous recent successful hybridizations were possible because of the development of improved tissue and cell culture systems for crop plants and attention given to genotypes used

in hybridization attempts Interspecific and intergeneric hybridization utilizing the process of protoplast fusion will bypass the limits set by all sexual methods In addition to combining complete genomes from two different species through protoplast fusion this system affords unique opportunities for creating novel cytoplasmic combinations transfer of individual chromosomes transfer of cytoplasmic organelles manipulation of male sterility and for single gene transfer Some caution must be noted with regard to the extent of hybridization possible between distantly related species Although practically no limit exists to the physical fusion of protoplasts from widely divergent species the restrictions imposed by somatic incompatibility have not been adequately addressed Regeneration of plants from the protoplast or single heterokaryon level is still a major hurdle for many important crop species before somatic cell fusion can be exploited to produce interspecific and intergeneric hybrids Identification and selection of hybrids is also a limitation to the efficient application of cell fusion methods

**Historical Perspectives in Plant Science** Kenneth Frey, 2002-09 Historical Perspectives is a compilation of the 1991 lectures presented for the series and provides a fresh look at plant science via anecdotes and personal knowledge

**Genetic Improvement of Field Crops** Gustavo A. Slafer, 2021-04-29 Outlining successful breeding techniques to augment the yields of the world's major crops this reference analyzes the physiological and genetic basis for past and potential future increases in crop yields Covering crops with wide differences in morphology photosynthetic rates and nitrogen metabolisms Genetic Improvement of Field Crops investigates the changes produced by breeders in the physiological attributes affecting wheat grain yield and nitrogen content during the last century discusses those crop characteristics of oats that have already been altered or might be manipulated through breeding to further increase yield potential describes several genetic factors responsible for both yield potential and stress resistance in barley offers insights into the relationship between increases in the yield potential and stress tolerance of corn examines the evolution of sunflower crop yields and yield stability and estimates the contribution of improved cultivars evaluates the effects of breeding on tuber characteristics related to the crop growth and yield of the potato elucidates the possibilities for simultaneous improvement of yield and fiber strength in cotton and identifies the features to be considered in the development of high yielding varieties of rice for different agricultural systems Providing nearly 1600 key literature citations allowing further in depth study of particular topics Genetic Improvement of Field Crops is for plant physiologists and breeders crop and agricultural scientists agronomists biochemists geneticists biotechnologists microbiologists and upper level undergraduate and graduate students in these disciplines

**DNA-Based Markers in Plants** R.L. Phillips, Indra K. Vasil, 2013-03-14 The double helix architecture of DNA was elucidated in 1953 Twenty years later in 1973 the discovery of restriction enzymes helped to create recombinant DNA molecules in vitro The implications of these powerful and novel methods of molecular biology and their potential in the genetic manipulation and improvement of microbes plants and animals became increasingly evident and led to the birth of modern biotechnology The first transgenic plants in which a bacterial gene had been stably integrated were produced in

1983 and by 1993 transgenic plants had been produced in all major crop species including the cereals and the legumes. These remarkable achievements have resulted in the production of crops that are resistant to potent but environmentally safe herbicides or to viral pathogens and insect pests. In other instances, genes have been introduced that delay fruit ripening or increase starch content or cause male sterility. Most of these manipulations are based on the introduction of a single gene, generally of bacterial origin, that regulates an important monogenic trait into the crop of choice. Many of the engineered crops are now under field trials and are expected to be commercially produced within the next few years.

*Omics and Biotechnological Approaches for Product Profile-Driven Sorghum Improvement* Ephrem Habyarimana, Muhammad Azhar Nadeem, Faheem Shehzad Baloch, Nusret Zencirci, 2024-11-12. This edited book is focused on Sustainable Development Goal 2, which aims to achieve Zero Hunger. It provides deep insights into the global sorghum status, limitations to its production, advancements in agronomic practices, and the application of high-throughput phenotyping technologies. Sorghum plays a vital role in global food security, agricultural sustainability, and rural livelihoods, making it an important crop for both developing and developed countries. It is a staple food for millions of people around the world, particularly in arid and semi-arid regions where other crops may struggle to grow. Sorghum exhibits significant genetic diversity, providing a rich resource for breeding programs aimed at developing improved varieties with traits such as higher yield, disease resistance, and nutritional quality. The book enhances readers' understanding of classical breeding methods and their role in sorghum improvement. It also focuses on the contribution of OMICs and biotechnological approaches to sorghum improvement. Detailed information about the genetic and genomic resources of sorghum provided is helpful for the scientific community to utilize in sorghum breeding. Chapters highlight sorghum genome sequencing, transgenic and hybrid sorghum, and the application of genome editing. This book is useful to the breeding community, serving as a resource for interdisciplinary research groups such as geneticists, breeders, biotechnologists, bioinformaticians, and students supporting them in accelerating their activities related to sorghum breeding.

*Sorghum* Ignacio A. Ciampitti, P. V. Vara Prasad, 2020-01-22. Sorghum is among the top five cereals and one of the key crops in global food security efforts. Sorghum is a resilient crop under high stress environments, ensuring productivity and access to food when other crops fail. Scientists see the potential of sorghum as a main staple food in a future challenged by climate change. The contributors provide a comprehensive review of sorghum knowledge. The discussion covers genetic improvements, development of new hybrids, biotechnology, and physiological modifications. Production topics include water and nutrient management, rotations, and pest control. Final end uses of sorghum as a bioenergy crop, markets, and the future of sorghum are presented. IN PRESS. This book is being published according to the Just Published model, with more chapters to be published online as they are completed.

*DNA-based markers in plants* Ronald L. Phillips, I. K. Vasil, 1994. Until very recently, genetic maps of higher plants were based almost entirely on morphological and biochemical traits. These maps are rapidly being replaced and/or supplemented with DNA-based marker maps based on the use of powerful new molecular

techniques The new high precision maps can be developed with comparative ease and rapidity They have a much higher density of markers which allows revelation of more and more restricted segments of the genome One of the many revolutionary aspects of this technology is that linkage between molecular markers and traits of interest often can be detected in a single cross The ability to hybridize probe after probe to the DNA of the same individuals of a segregating population allows one to pursue the analysis until linkage becomes evident With morphological and biochemical markers used previously a separate cross was required to test linkage with each new marker It was seldom that more than three markers could be tested for linkage with the trait of interest in a single cross because of viability problems With the new techniques described in this volume a new gene could be placed on the linkage map within a few days instead of the much longer time required with the previous techniques In this book a group of leading researchers provide background information and the latest versions of DNA based marker maps for a variety of important crops These maps illustrate the state of the art today The progress made during the past five years has been truly phenomenal Crop Evolution, Adaptation and Yield L. T. Evans, Lloyd T. Evans, 1996-05-02 In this major 1993 work Lloyd Evans provides an integrated view of the domestication adaptation and improvement of crop plants bringing together genetic diversity plant breeding physiology and aspects of agronomy Considerations of yield and maximum yield provide continuity throughout the book Food feed fibre fuel and pharmaceutical crops are all discussed Cereals grain legumes and root crops both temperate and tropical provide many of the examples but pasture plants oilseeds leafy crops fruit trees and others are also considered After the introductory chapter the increasing significance of crop yields to the world s food supply is highlighted The next three chapters consider changes to crop plants over the last ten thousand years including domestication adaptation and improvement Aimed at research workers and advanced students in crop physiology and ecology agronomy and plant breeding this book also reaches conclusions of relevance to those concerned with developmental policy agricultural research and management environmental quality resource depletion and human history Impacts of International Wheat Breeding Research in the Developing World, 1988-2002 Maximina A. Lantican, Harvey Jesse Dubin, Michael L. Morris, 2005

*Farmers, Scientists, and Plant Breeding* David Arthur Cleveland, Daniela Soleri, 2002-01-01 The purpose of this book is to examine the nature of and relationship between the knowledge of farmers and of scientists and how these can be best integrated in plant breeding **Developing Drought and Low N-tolerant Maize** G. O. Edmeades, 1996 Incidence and intensity of drought and low N stress in the tropics Case studies strategies for crop production under drought and low n stresses in the tropics Stress physiology and identification of secondary traits Physiology of low nitrogen stress Breeding for tolerance to drought and low n stresses General breeding strategies for stress tolerance Progress in breeding drought tolerance Progress in breeding low nitrogen tolerance Experimental design and software **Terrestrial Biospheric Carbon Fluxes Quantification of Sinks and Sources of CO<sub>2</sub>** Joe Wisniewski, R. Neil Sampson, 2012-12-06 Towards the

Balance and Management of the Carbon Budget of the Biosphere The current state of misunderstanding of the global C cycle and our failure to resolve an issue that has been debated for 100 years Jones and Henderson Sellers 1990 speaks loudly about the limitations of modern science when faced with the complexity of the biosphere Efforts to understand and balance the global C budget have gone through several phases First was a holistic view of the C budget as part of efforts to understand the geochemistry of the Earth e g Clarke 1908 Next came a period of data collection and synthesis which focused on the diversity of sectors of the biosphere This phase culminated in the early 1970 s with the realization that humans were greatly impacting the global C cycle as measured at the Mauna Loa Observatory Keeling et al 1973 New syntheses of the global C budget emerged at this time Woodwell and Pacan 1973 Bolin et al 1979 The next phase was one of controversy and intense focus on particular sectors of the biosphere The controversy rested on discrepancies about the role of the terrestrial biota in the global C cycle and the failure to account for sufficient C sinks to absorb all the C emitted by land use change in the tropics Woodwell et al 1978 1983 Houghton et al 1983 *The Seed Industry in U.S. Agriculture* Jorge Fernandez-Cornejo, 2004 Plant Breeding Reviews, Volume 11 Jules Janick, 2010-05-11 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 It is a serial title that appears in the form of one or two volumes per year

## Decoding **Genetic Contributions To Yield Gains Of Five Major Crop Plants**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Genetic Contributions To Yield Gains Of Five Major Crop Plants**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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