

# Quantitative Genetics, Genomics and Plant Breeding



Edited by  
**Manjit S. Kang**



CAB International

# Quantitative Genetics Genomics And Plant Breeding

**C Kole, Albert G. Abbott**



## **Quantitative Genetics Genomics And Plant Breeding:**

*Quantitative Genetics, Genomics and Plant Breeding, 2nd Edition* Manjit S. Kang, 2020-04-01 This book presents state of the art authoritative chapters on contemporary issues in the broad areas of quantitative genetics genomics and plant breeding Section 1 Chapters 2 to 12 emphasizes the application of genomics and genome and epigenome editing techniques in plant breeding bioinformatics quantitative trait loci mapping and the latest approaches of examining and exploiting genotype environment interactions Section 2 Chapters 13 to 20 represents the intersection of breeding genetics and genomics This section describes the use of cutting edge molecular breeding and quantitative genetics techniques in wheat rice maize root and tuber crops and pearl millet Overall the book focuses on using genomic information to help evaluate traits that can combat biotic abiotic stresses genome wide association mapping high throughput genotyping phenotyping biofortification use of big data orphan crops and gene editing techniques The examples featured are taken from across crop science research and cover a wide geographical base

**Quantitative Genetics, Genomics, and Plant Breeding** Amanda Greene, 2018

**Quantitative Genetics, Genomics, and Plant Breeding**, 2015

**Quantitative Genetics and Selection in Plant Breeding** Günter Wricke, Eberhard Weber, 2010-10-06 No detailed description available for Quantitative Genetics and Selection in Plant Breeding

*Genetics, Genomics and Breeding of Sorghum* Yi-Hong Wang, Hari D. Upadhyaya, Chittaranjan Kole, 2014-07-08 Sorghum is one of the hardiest crop plants in modern agriculture and also one of the most versatile Its seeds provide calorie for food and feed stalks for building and industrial materials and its juice for syrup This book provides an in depth review of the cutting edge knowledge in sorghum genetics and its applications in sorghum breeding Each chapter is authored by specialists in their fields to report the latest trends and findings The book showcases the definitive value of sorghum as a model system to study the genetic basis of crop productivity and stress tolerance and will provide a foundation for future studies in sorghum genetics genomics and breeding

**Quantitative Genetics** Shizhong Xu, 2022-01-19 The intended audience of this textbook are plant and animal breeders upper level undergraduate and graduate students in biological and agricultural science majors Statisticians who are interested in understanding how statistical methods are applied to genetics and agriculture can benefit substantially by reading this book One characteristic of this textbook is represented by three chapters of technical reviews for Mendelian genetics population genetics and preliminary statistics which are prerequisites for studying quantitative genetics Numerous examples are provided to illustrate different methods of data analysis and estimation of genetic parameters Along with each example of data analyses is the program code of SAS statistical analysis system

*Physiology and Biotechnology Integration for Plant Breeding* Henry T. Nguyen, Abraham Blum, 2004-01-14 Global demand for wheat rice corn and other essential grains is expected to steadily rise over the next twenty years Meeting this demand by increasing production through increased land use is not very likely and while better crop management may make a marginal difference most agriculture experts agree that

this anticipated deficit must be made up through increased crop yields The first resource of its kind *Physiology and Biotechnology Integration for Plant Breeding* assembles current research in crop plant physiology plant biotechnology and plant breeding that is aimed toward improving crop plants genetically while supporting a productive agriculture ecosystem Highly comprehensive this reference provides access to the most innovative perspectives in crop physiology with a special emphasis on molecular approaches aimed at the formulation of those crop cultivars that offer the greatest potential to increase crop yields in stress environments Surveys the current state of the field as well as modern options and avenues for plant breeders and biotechnologists interested in augmenting crop yield and stability With the contributions of plant scientists from all corners of the globe who are actively involved in meeting this important challenge *Physiology and Biotechnology Integration for Plant Breeding* provides readers with the background information needed to understand this cutting edge work as well as detailed information on present and potential applications While the first half of the book establishes and fully explains the link between crop physiology and molecular biology the second part explores the application of biotechnology in the effective delivery of the high yield and environmentally stable crop plants needed to avert the very real possibility of worldwide hunger

**Cereal Genomics** Pushpendra K. Gupta,R.K. Varshney,2006-01-19 Cereals make an important component of daily diet of a major section of human population so that their survival mainly depends on the cereal grain production which should match the burgeoning human population Due to painstaking efforts of plant breeders and geneticists at the global level cereal production in the past witnessed a steady growth However the cereal production in the past has been achieved through the use of high yielding varieties which have a heavy demand of inputs in the form of chemical fertilizers herbicides and insecticides pesticides leading to environmental degradation In view of this while increasing cereal production one also needs to keep in mind that agronomic practices used for realizing high productivity do not adversely affect the environment Improvement in cereal production in the past was also achieved through the use of alien genetic variation available in the wild relatives of these cereals so that conservation and sustainable use of genetic resources is another important area which is currently receiving the attention of plant breeders The work leading to increased cereal production in the past received strong support from basic research on understanding the cereal genomes which need to be manipulated to yield more from low inputs without any adverse effects as above Through these basic studies it also became fairly apparent that the genomes of all cereals are related and were derived from the same lineage million of years ago

**Genetics, Genomics, and Breeding of Tomato** Barbara E. Liedl,Joanne A. Labate,John R. Stommel,Ann Slade,Chittaranjan Kole,2013-01-17 This volume covers the advances in the study of tomato diversity and taxonomy It examines the mapping of simple and complex traits classical genetics and breeding association studies molecular breeding positional cloning and structural and comparative genomics The contributors also discuss transcriptomics proteomics metabolomics and bioin

*Search for New Genes* Benjamin Peary Pal,2007 Contributed papers presented at the

Symposium festschrift for Benjamin Peary Pal 1906 1989 Indian agricultural scientist      **Handbook of Plant Biotechnology** Paul Christou, Harry Klee, 2004 This reference work on plant biotechnology is presented in a logical and informative style and it brings together the principles and practice of contemporary plant biotechnology including modern commercial aspects      **Principles and Practices of Plant Genomics, Vol. 2** C Kole, Albert G. Abbott, 2008 The three volumes in this series containing 41 chapters contributed by over one hundred globally reputed scientists provide lucid deliberations on the concepts strategies tools methodologies and achievements of plant genomics presented in a typical class room approach Back cover      **Australian Journal of Agricultural Research** ,2005      **Genetics and Breeding of Sugar Beet** Enrico Biancardi, 2005-01-04 The book comes during a time of rapid expansion in molecular technology based selection approaches that are destined to modify or supplement conventional breeding methodology The new technologies will allow genetic and physiological factors influencing sugar yield and quality to be assessed in great detail and manipulated These novel techniques will also reduce the dependence of the sugar beet crop on chemical pesticides and fertilizers by using unique and improved resistance mechanisms against the various abiotic stresses and diseases and by producing varieties that use soil resources more efficiently A whole chapter deals with the current information on the development of these new techniques and their integration into sugar beet breeding      *Yields of Farmed Species* R. Sylvester-Bradley, Julian Wiseman, 2005 Presenting various solutions to issues facing the yields of farm species this perceptive study debates such topics as to what extent pests pathogens competing demands for resources or scruples about farming processes will curtail our ability to innovate in food production      **Scale and Complexity in Plant Systems Research** J.H.J. Spiertz, P.C. Struik, H.H. van Laar, 2007-04-24 New directions in plant systems research are presented and discussed in this book The book offers new insights in physiology and genetics of crop adaptation for wheat and maize along with innovative approaches in architectural and physiology based modelling of crop functioning An outlook and dialogue on future directions in plant system research challenges readers with contrasting opinions on the way forward      **Monograph on Genus Oryza** J. S. Nanda, S. D. Sharma, 2003 An up to date monograph of the genus Oryza It is intended for researchers and students working in the field of rice taxonomy species relationship evolution cytogenetics and crop improvement      Heredity ,1947      **FAO Plant Production and Protection Papers** ,1976      **The Botanica** ,2004

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