

# Quantitative Genetics, Genomics and Plant Breeding



Edited by  
**Manjit S. Kang**



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# Quantitative Genetics Genomics And Plant Breeding

**Linghe Zeng, Fred Bourland, Iain W.  
Wilson**



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

**Quantitative Genetics, Genomics and Plant Breeding** Manjit S. Kang, 2020 Quantitative genetics and breeding have made a major contribution to crop improvement over the years but the genomics revolution has dramatically changed the field this second edition of a popular book explains how traditional and genomic techniques have been combined to advance the field **Quantitative Genetics, Genomics, and Plant Breeding** Amanda Greene, 2018 **Quantitative Genetics, Genomics, and Plant Breeding**, 2015 **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 Genetics, Genomics and Breeding of Maize Ramakrishna Wusirika, Martin Bohn, Jinsheng Lai, Chittaranjan Kole, 2014-08-05 Sequencing of the maize genome has opened up new opportunities in maize breeding genetics and genomics research This book highlights modern trends in development of hybrids analysis of genetic diversity molecular breeding comparative and functional genomics epigenomics and proteomics in maize The use of maize in biofuels phytoremediation and pharmaceuticals is also highlighted Current research trends future research directions and challenges are discussed by a panel of experts from all over the world Biological and Genetic Basis of Agronomical and Seed Quality Traits in Legumes Jose C. Jimenez-Lopez, Alfonso Clemente, Sergio J. Ochatt, Maria Carlota Vaz Patto, Eric Von Wettberg, Petr Smýkal, 2022-11-10 **Cereal Genomics II** Pushpendra K. Gupta, Rajeev Varshney, 2013-05-29 Cereal Genomics published in 2004 served the purpose of collecting all information on cereal genomics at one place and was well received by the cereal workers through out the world The last eight years have witnessed significant advancement in the field of cereal genomics For instance high density genetic maps physical maps QTL maps and even draft genome sequence have become available for several cereal species Furthermore the next generation sequencing NGS technologies have revolutionized genomics research so that it is possible now to sequence genomes of hundreds or thousands of accessions of an individual cereal crop Significant amounts of data generated using these NGS technologies created a demand for computational tools to analyse this massive data In view of these developments the Editors realised that there was a need to have an updated volume on the present status and future prospects of cereal

genomics These developments related to technology and the tools have been documented in this volume thus supplementing our earlier edited volume *Cereal Genomics* *Cereal Genomics II* discusses advances in cereal genomics research made during the last eight years and presents state of art cereal genomics and its utilization involving both basic research such as comparative genomics and functional genomics and applied research like QTL mapping and molecular breeding Genetic and Production Innovations in Field Crop Technology Manjit S. Kang, 2005-12-15 Get cutting edge information to improve crop breeding and productivity Crop improvement will become progressively important over the next few decades as the world's population is expected to top 10 billion people with more than eight billion in developing countries alone *Genetic and Production Innovations in Field Crop Technology* *Molecular Genetics, Genomics and Biotechnology of Crop Plants* *Breeding* Søren K. Rasmussen, 2020-05-27 This Special Issue on molecular genetics genomics and biotechnology in crop plant breeding seeks to encourage the use of the tools currently available It features nine research papers that address quality traits grain yield and mutations by exploring cytoplasmic male sterility the delicate control of flowering in rice the removal of anti nutritional factors the use and development of new technologies for non model species marker technology site directed mutagenesis and GMO regulation genomics selection and genome wide association studies how to cope with abiotic stress and an exploration of fruit trees adapted to harsh environments for breeding purposes A further four papers review the genetics of pre harvest sprouting readiness for climate smart crop development genomic selection in the breeding of cereal crops and the large numbers of mutants in straw lignin biosynthesis and deposition *Plant Breeding Reviews, Volume 25* Jules Janick, 2010-04-07 *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 *Trends in Cotton Breeding: Meeting the Challenges of the 21st Century* Linghe Zeng, Fred Bourland, Iain W. Wilson, 2022-11-07 Molecular Plant Breeding Yunbi Xu, 2010 Recent advances in plant genomics and molecular biology have revolutionized our understanding of plant genetics providing new opportunities for more efficient and controllable plant breeding Successful techniques require a solid understanding of the underlying molecular biology as well as experience in applied plant breeding Bridging the gap between developments in biotechnology and its applications in plant improvement *Molecular Plant Breeding* provides an integrative overview of issues from basic theories to their applications to crop improvement including molecular marker technology gene mapping genetic transformation quantitative genetics and breeding methodology **Water and Agricultural Sustainability Strategies** Manjit S Kang, 2010-03-25 According to the United Nations 77 million people are expected to face water shortage by 2025 if people continue to use water at the current rate More water than available would be needed to grow the world's food during the next decade As a result of scarcity of water global annual food production losses could reach 350 million tons by 2025 Di **Drought Adaptation in Cereals**

Jean-Marcel Ribaut, 2024-11-01 Learn how to best improve yield in cereal plants even in dry conditions The impact of drought on crop production can be economically devastating Drought Adaptation in Cereals provides a comprehensive review of the latest research on the tolerance of cereal crops to water limited conditions Renowned experts extensively describe basic concepts and cutting edge research results to clearly reveal all facets of drought adaptation in cereals More than simply a fine reference for plant biology and plant improvement under water limited conditions this book spotlights the most relevant biological approaches from plant phenotyping to functional genomics The need to understand plant response to the lack of water is integral to forming strategies to best manage crops Drought Adaptation in Cereals starts by offering an overview of the biological basis and defines the adaptive mechanisms found in plants under water limited conditions Different approaches are presented to provide understanding of plant genetics basics and plant breeding including phenotyping physiology and biotechnology The book details drought adaptation mechanisms at the cellular organ and entire plant levels focusing on plant metabolism and gene functions This resource is extensively referenced and contains tables charts and figures to clearly present data and enhance understanding After a foreword by J O Toole and a prologue by A Blum Drought Adaptation in Cereals presents a full spectrum of informative topics from other internationally respected scientists These include drought s economic impact P Heisey genotype by environment interactions M Cooper secondary traits for drought adaptation P Monneveux leaf growth F Tardieu carbon isotope discrimination T Condon drought adaptation in barley M Sorrells maize M Sawkins rice R Lafitte sorghum A Borrell and wheat M Reynolds carbohydrate metabolism A Tiessen the role of abscisic acid T Setter protection mechanisms and stress proteins L Mtwisha genetic basis of ion homeostasis and water deficit H Bohnert transcriptional factors K Yamaguchi Shinozaki resurrection plants D Bartels Drought Adaptation in Cereals is a unique vital reference for scientists educators and students in plant biology agronomy and natural resources management

**Cereals** Marcelo J. Carena, 2009-04-21 Agriculture depends on improved cultivars and cultivars are developed through proper plant breeding Unfortunately applied plant breeding programs that are focused on cereal commodity crops are under serious erosion because of lack of funding This loss of public support affects breeding continuity objectivity and perhaps equally important the training of future plant breeders and the utilization and improvement of plant genetic resources currently available Breeding programs should focus not only on short term research goals but also on long term genetic improvement of germplasm The research products of breeding programs are important not only for food security but also for commodity oriented public and private programs especially in the fringes of crop production Breeding strategies used for long term selection are often neglected but the reality is that long term research is needed for the success of short term products An excellent example is that genetically broad based public germplasm has significantly been utilized and recycled by industry producing billions of dollars for industry and farmers before intellectual property rights were available Successful examples of breeding continuity have served the sustainable cereal crop production that we currently

have The fact that farmers rely on public and private breeding institutions for solving long term challenges should influence policy makers to reverse this trend of reduced funding Joint cooperation between industry and public institutions would be a good example to follow The objective of this volume is to increase the utilization of useful genetic resources and increase awareness of the relative value and impact of plant breeding and biotechnology That should lead to a more sustainable crop production and ultimately food security Applied plant breeding will continue to be the foundation to which molecular markers are applied Focusing useful molecular techniques on the right traits will build a strong linkage between genomics and plant breeding and lead to new and better cultivars Therefore more than ever there is a need for better communication and cooperation among scientists in the plant breeding and biotechnology areas We have an opportunity to greatly enhance agricultural production by applying the results of this research to meet the growing demands for food security and environmental conservation Ensuring strong applied plant breeding programs with successful application of molecular markers will be essential in ensuring such sustainable use of plant genetic resources

*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

*Transcription Factors for Abiotic Stress Tolerance in Plants* Shabir Hussain Wani,2020-08-05 Transcription Factors for Abiotic Stress Tolerance in Plants highlights advances in the understanding of the regulatory network that impacts plant health and production providing important insights for improving plant resistance Plant production worldwide is suffering serious losses due to widespread abiotic stresses increasing as a result of global climate change Frequently more than one abiotic stress can occur at once for example extreme temperature and osmotic stress which increases the complexity of these environmental stresses Modern genetic engineering technologies are one of the promising tools for development of plants with efficient yields and resilience to abiotic stresses Hence

deciphering the molecular mechanisms and identifying the abiotic stress associated genes that control plant response to abiotic stresses is a vital requirement in developing plants with increased abiotic stress resilience Addressing the various complexities of transcriptional regulation this book includes chapters on cross talk and central regulation regulatory networks the role of DOF WRKY and NAC transcription factors zinc finger proteins CRISPR CAS9 based genome editing C Repeat CRT binding factors CBFs Dehydration responsive element binding factors DREBs and factors impacting salt cold and phosphorous stress levels as well as transcriptional modulation of genes involved in nanomaterial plant interactions Transcription Factors for Abiotic Stress Tolerance in Plants provides a useful reference by unravelling the transcriptional regulatory networks in plants Researchers and advanced students will find this book a valuable reference for understanding this vital area Discusses abiotic stress tolerance and adaptive mechanisms based on the findings generated by unlocking the transcriptional regulatory network in plants Presents various kinds of regulatory gene networks identified for drought salinity cold and heat stress in plants Highlights urgent climate change issues in plants and their mitigation using modern biotechnological tools including genome editing **Search for New Genes** Benjamin Peary Pal,2007 Contributed papers presented at the Symposium festschrift for Benjamin Peary Pal 1906 1989 Indian agricultural scientist Genomics of Cereal Crops Shabir Hussain Wani,Anuj Kumar,2022-06-13 This volume details different genomic methods and resources to explore cereal genomics Chapters guide readers through crop genomes Next Generation Sequencing NGS technologies protocol for CRISPR editing transgenic wheat NGS approach virus induced gene silencing VIGS genomic tools computational prediction of ncRNAs miRNAs ceRNAs in cereal crops genotyping by sequencing GBS Bayesian method single cell sequencing genome wide association study GWAS QTL interval mapping whole genome bisulfite sequencing genome imprinting and methods for study the receptor metabolite interaction Authoritative and cutting edge Genomics of Cereal Crops aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

Handbook of Formulas and Software for Plant Geneticists and Breeders Manjit S. Kang,2024-11-15 A simple solution to complicated statistical techniques and formulas The Handbook of Formulas and Software for Plant Geneticists and Breeders is an up to date reference source that eliminates the need for hand calculations of complicated genetic formulas and equations Contributions from members of the C1 Division of the Crop Science Society of America include computer program codes not found in Statistical Analysis System SAS and other commonly available statistical packages The book provides an invaluable shortcut to sorting through piles of literature in search of programs that may have been published in abbreviated forms or never at all The Handbook of Formulas and Software for Plant Geneticists and Breeders puts full fledged program codes of specialized statistical and genetics related software programs at your fingertips It shows practicing geneticists breeders and students how to use specialized software through practical examples The book is an excellent research and teaching tool in quantitative genetics and plant breeding providing definitions of key terms and information on how to obtain

desired software and key references It also includes an extensive listing of programs available for linkage and mapping software that can be accessed through the Internet The Handbook of Formulas and Software for Plant Geneticists and Breeders presents among others programs related to genotype by environmental interaction GEI and stability analysis genetic diversity estimation best linear unbiased predictors BLUPs principal component and additive main effects and multiplicative interaction AMMI analyses quantitative trait loci by environment QTL x E analysis GGE biplot analysis diallel analyses path analysis trend analysis field plot technique The Handbook of Formulas and Software for Plant Geneticists and Breeders is essential for academics and researchers working in genetics breeding and genomics and as a supplement for coursework in quantitative genetics and plant breeding



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