

Quantitative Genetics, Genomics and Plant Breeding



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CAB Publishing

Quantitative Genetics Genomics And Plant Breeding

R. Sylvester-Bradley, Julian Wiseman



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

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

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

Quantitative Genetics and Selection in Plant Breeding Günter Wricke, Eberhard Weber, 1986 No detailed description available for Quantitative Genetics and Selection in Plant Breeding

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

Benjamin Peary Pal 1906 1989 Indian agricultural scientist **Heredity**, 1947 **Population Genomics: Crop Plants** Om P. Rajora, 2024-06-08 Population genomics has revolutionized several disciplines of biology genetic resource conservation and management and breeding of crop plants by providing key and novel insights into population evolutionary ecological and conservation genetics ecology evolution and adaptation and facilitating molecular breeding with an unprecedented power and accuracy Crop plants have been domesticated from their wild progenitors over several centuries and have undergone severe genetic bottlenecks and selection sweeps Population genomics research has unraveled novel insights into crop plants origin evolution demographic history center of diversity domestication history genetic genomic diversity and genetic structure of wild and domesticated populations and species epigenomic diversity genetic genomic basis of domestication syndrome genomic footprints of domestication selection and breeding de domestication speciation and admixture taxonomy phylogeny ecology biotic and abiotic stress tolerance and ecological and climate adaptation Population genomics has also facilitated the development of pangenomes conservation and management of genetic diversity including in the pre breeding and breeding programs and genomics assisted breeding via identifying genotype phenotype associations and genomic selection in crop plants This pioneering book presents the advances made and potential of population genomics in addressing the above crop plants aspects of basic and applied significance and brings together leading experts in crop plants population genomics to discuss these topics in major crop plants Genomic epigenomic transcriptomic and plant resources available for population genomics research and challenges opportunities and future perspectives of crop plants population genomics are also discussed Chapters Population Genomics of Yams Evolution and Domestication of Dioscorea Species and Population Genomics Along With Quantitative Genetics Provides a More Efficient Valorization of Crop Plant Genetic Diversity in Breeding and Pre breeding Programs are available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) [Australian Journal of Agricultural Research](#), 2005 **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

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

FAO Plant Production and Protection Papers ,1976

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 spouting 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 Jules Janick,2005-02-28 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

Maydica ,2008 Journal devoted to maize and allied species

Witthayāsān Kasētsārt ,2010-05

Applying Photosynthesis Research to Improvement of Food Crops Jill E. Gready,Simon A. Dwyer,John R. Evans,2013 The major focus of crop productivity research in recent decades has been on improving drought and salt tolerance water and fertiliser use efficiency and disease and pest control However by themselves they are unlikely to be sufficient to meet future food security demands Therefore it is time to look at new approaches including increasing the photosynthetic efficiency of crop plants better using the non limiting inputs of sunlight and carbon dioxide from the air ACIAR sponsored a workshop at the Australian National University that addressed strategies for developing and applying research on photosynthesis to improving food crops The papers are published in these proceedings

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

Reviewing **Quantitative Genetics Genomics And Plant Breeding**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Quantitative Genetics Genomics And Plant Breeding**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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