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Genetic Analyses of Wheat and Molecular Marker- Assisted Breeding, Volume 1

Genetics Map and QTL Mapping



Science Press
Beijing



Springer

Genetic Analyses Molecular Marker Assisted Breeding

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Genetic Analyses Molecular Marker Assisted Breeding:

Genetic Analyses of Wheat and Molecular Marker-Assisted Breeding, Volume 1 Jichun Tian,Zhiying DENG,Kunpu Zhang,Haixia Yu,Xiaoling Jiang,Chun Li,2015-10-22 The book mainly describes the QTL mappings and efficacy analyses that are associated with wheat productivity quality physiology and various stress resistances and provides summaries of results from studies conducted both at home and abroad It presents comparable data and analyses helping readers to arrive at a more comprehensive understanding of the latest development in this field The book provides a wealth of novel information broad range of applications and in depth findings on crop genetics and molecular breeding making it valuable not only for plant breeders but also for academic faculties senior researchers and advanced graduate students who are involved in plant breeding and genetics Dr Jichun Tian is a professor at the Department of Agronomy Shandong Agricultural University Tai an China

Genetic Analyses of Plant and Molecular Marker-Assisted Breeding Kiara Woods,2023-09-26 Plants have a complex gene pool that is capable of identifying invading pathogens and initiating effective defense mechanisms Plant genetics refers to a specialized field of biology and botany that is concerned with the study of genes genetic variation and heredity in plants Molecular marker assisted breeding MAB is a method for plant improvement that applies molecular biotechnologies to practical breeding and selection MAB combines traditional plant breeding with the tools of molecular biology and genetics prominently making use of molecular markers MAB offers a number of benefits as compared with conventional breeding methods It involves genetic manipulation performed at the DNA level for improving the traits of interest in plants This book is a compilation of chapters that discuss the most vital concepts and emerging trends in the genetic analyses of plants and molecular marker assisted breeding It consists of contributions made by international experts This book will serve as a reference to a broad spectrum of readers

Genetic Analyses of Wheat and Molecular Marker-Assisted Breeding Jichun Tian,Zhiying Deng,Kunpu Zhang,Haixia Yu,Xiaoling Jiang,Chun Li,2015

Genetic Analyses of Wheat and Molecular Marker-Assisted Breeding, Volume 2 Jichun Tian,Jiansheng Chen,Guangfeng Chen,Peng Wu,Han Zhang,Yong Zhao,2015-11-25 While focusing on various interactions between trait genes QTL and dynamic expressions of conditional QTL genes this book also discusses aspects of molecular marker assisted breeding and applications of molecular markers associated with yield quality physiology and disease resistance in wheat It covers QTL studies in wheat breeding and presents the available information on wheat MAS breeding This volume provides a wealth of novel information a wide range of applications and deep insights into crop genetics and molecular breeding which is valuable not only for plant breeders but also for academic faculties senior researchers and advanced graduate students who are involved in plant breeding and genetics Dr Jichun Tian is a professor at the Department of Agronomy Shandong Agricultural University Tai an China

Genetic Analyses of Wheat and Molecular Marker-assisted Breeding ,2015

Genetic Analyses of Wheat and Molecular Marker-Assisted Breeding Jichun Tian,Jiansheng Chen,Guangfeng Chen,Peng Wu,Han Zhang,Yong

Zhao,2015 *The Methodology of Plant Genetic Manipulation: Criteria for Decision Making* Alan C. Cassells, Peter Jones, 2012-12-06 A range of novel techniques is available to the plant breeder today to complement classical breeding methods The new options are based on the integration of advances in plant cell biology with those in plant molecular biology Plant cell tissue and organ cultures provide efficient systems for transformation for the achievement of wide crosses and for the production of variation through spontaneous and induced mutation while permitting effective isolation of desired genotypes by in vitro selection This book presents a critical appraisal of the methodologies of plant genetic manipulation for advanced undergraduates postgraduates researchers and plant breeders and provides guidance on the choice of breeding options The latter depends on the breeding system of the crop the breeding objective and the tissue culture systems applicable to the target genotype s

Genetics and Genomics of the Brassicaceae Renate Schmidt, Ian Bancroft, 2010-12-03 The Genetics and Genomics of the Brassicaceae provides a review of this important family commonly termed the mustard family or Cruciferae The family contains several cultivated species including radish rocket watercress wasabi and horseradish in addition to the vegetable and oil crops of the Brassica genus There are numerous further species with great potential for exploitation in 21st century agriculture particularly as sources of bioactive chemicals These opportunities are reviewed in the context of the Brassicaceae in agriculture More detailed descriptions are provided of the genetics of the cultivated Brassica crops including both the species producing most of the brassica vegetable crops *B. rapa* and *B. oleracea* and the principal species producing oilseed crops *B. napus* and *B. juncea* The Brassicaceae also include important model plant species Most prominent is *Arabidopsis thaliana* the first plant species to have its genome sequenced Natural genetic variation is reviewed for *A. thaliana* as are the genetics of the closely related *A. lyrata* and of the genus *Capsella* Self incompatibility is widespread in the Brassicaceae and this subject is reviewed Interest arising from both the commercial value of crop species of the Brassicaceae and the importance of *Arabidopsis thaliana* as a model species has led to the development of numerous resources to support research These are reviewed including germplasm and genomic library resources and resources for reverse genetics metabolomics bioinformatics and transformation Molecular studies of the genomes of species of the Brassicaceae revealed extensive genome duplication indicative of multiple polyploidy events during evolution In some species such as *Brassica napus* there is evidence of multiple rounds of polyploidy during its relatively recent evolution thus the Brassicaceae represent an excellent model system for the study of the impacts of polyploidy and the subsequent process of diploidisation whereby the genome stabilises Sequence level characterization of the genomes of *Arabidopsis thaliana* and *Brassica rapa* are presented along with summaries of comparative studies conducted at both linkage map and sequence level and analysis of the structural and functional evolution of resynthesised polyploids along with a description of the phylogeny and karyotype evolution of the Brassicaceae Finally some perspectives of the editors are presented These focus upon the Brassicaceae species as models for studying genome evolution following polyploidy the

impact of advances in genome sequencing technology prospects for future transcriptome analysis and upcoming model systems

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

Plant Breeding Technology Zeba Khan, 2024-12-26 This book highlights the latest and most exciting technological tools for plant breeding that are becoming the staple of all crop improvement programs Using case studies and an evidence based approach to examine the current status of each technique the book discusses the challenges so far uncovered and future trends The book presents a systematic guide to various genomics approaches deployed for trait discovery and improvement in crop species The chapters comprehensively cover each application its advantages and disadvantages and its potential for improvement supported by illustrative examples

Fisheries and aquaculture genetics Yuzine Esa, Siti Nor, Md Samsul Alam, Nguyen Hong Nguyen, 2023-07-05

Genetic Analysis of the Mo12 and Mo2 Genes for Resistance to Lettuce Mosaic Virus in Lactuca Sativa Sally Vogel Irwin, 2000

Quality Breeding in Field Crops Asif M. Iqbal Qureshi, Zahoor Ahmad Dar, Shabir Hussain Wani, 2019-02-15 Development of superior crops that have consistent performance in quality and in quantity has not received the same emphasis in the field of genetics and breeding as merited Specialty trait requires special focus to propagate Yet basic germplasm and breeding methodologies optimized to improve crops are often applied in the development of improved specialty types However because of the standards required for specialty traits methods of development and improvement are usually more complex than those for common commodity crops The same standards of performance are desired but the genetics of the specialty traits often impose breeding criteria distinct from those of non specialty possessing crops Specifically quality improvement programs have unique characteristics that require careful handling and monitoring during their development for specific needs Adding value either via alternative products from the large volumes of grain produced or development of specialty types is of interest to producers and processors This work assimilates the most topical results about quality improvement with contemporary plant breeding approaches The objective of this book is to provide a summary of the germplasm methods of development and specific problems involved for quality breeding In total fourteen chapters written by leading scientists involved in crop improvement research provide comprehensive coverage of the major factors impacting specialty crop improvement

Omics in Horticultural Crops Gyana Ranjan Rout, K.V. Peter, 2022-07-16 Omics in Horticulture Crops presents a comprehensive view

of germplasm diversity genetic evolution genomics proteomics and transcriptomics of fruit crops temperate tropical and subtropical fruits fruit nuts berries vegetables tuberous crops ornamental and floricultural crops and medicinal aromatic plants Information covering phenomics genetic diversity phylogenetic studies genome sequencing and genome barcoding through the utilization of molecular markers plays an imperative role in the characterization and effective utilization of diverse germplasm are included in the book This is a valuable reference for researchers and academics seeking to improve cultivar productivity through enhanced genetic diversity while also retaining optimal traits and protecting the growing environment Highlights perspectives progress and promises of omics application Provides a systematic overview of origin progenitor and domestication process as well as genetic insights Includes full range of horticultural crops **Genetic Analysis of Kernel Morphology and Quality in Hexaploid Wheat Using Linkage and Association Approaches** Flávio Breseghello,2005 **The Indian Journal of Genetics & Plant Breeding** ,1941 **Physio-genetic Study on Yield Determination and Ecological Adaptability for Sustainable Rice Culture** Kokusai Nōrin Suisangyō Kenkyū Sentā,2006 Outline of IRRI Japan collaborative research project Phase IV Functional genomics Genetic enhancement for yield grain quality and stress resistance Managing resources under intensive rice based systems Genetic enhancement for improving productivity and human health in fragile environments **Proceedings of the Third International Symposium on Rose Research and Cultivation** Naftaly Zieslin,Hassan Agbaria,2001 *Genetics Abstracts* ,2001 **Genome and Post-genome Researches in Crops and Mutation** ,2005

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