

Chittaranjan Kole *Editor*

# Genomics and Breeding for Climate- Resilient Crops

Vol. 2 Target Traits

 Springer

# Genomics And Breeding For Climate Resilient Crops Vol 2 Target Traits

**Chittaranjan Kole**



## **Genomics And Breeding For Climate Resilient Crops Vol 2 Target Traits:**

*Genomics and Breeding for Climate-Resilient Crops* Chittaranjan Kole, 2013-06-18 Climate change is expected to have a drastic impact on agronomic conditions including temperature precipitation soil nutrients and the incidence of disease pests to name a few To face this looming threat significant progress in developing new breeding strategies has been made over the last few decades The second volume of *Genomics and Breeding for Climate Resilient Crops* describes various genomic and breeding approaches for the genetic improvement of the major target traits Topics covered include flowering time root traits cold heat and drought tolerance water use efficiency flooding and submergence tolerance disease and insect resistance nutrient use efficiency nitrogen fixation carbon sequestration and greenhouse gas emissions

*Genomics and Breeding for Climate-Resilient Crops* Chittaranjan Kole, 2013-06-18 Climate change is expected to have a drastic impact on agronomic conditions including temperature precipitation soil nutrients and the incidence of disease pests to name a few To face this looming threat significant progress in developing new breeding strategies has been made over the last few decades The first volume of *Genomics and Breeding for Climate Resilient Crops* presents the basic concepts and strategies for developing climate resilient crop varieties Topics covered include conservation evaluation and utilization of biodiversity identification of traits genes and crops of the future genomic and molecular tools genetic engineering participatory and evolutionary breeding bioinformatics tools to support breeding funding and networking support and intellectual property regulatory issues social and political dimensions

**Genomic Designing of Climate-Smart Oilseed Crops** Chittaranjan Kole, 2019-02-15 This book highlights modern strategies and methods to improve oilseed crops in the era of climate change presenting the latest advances in plant molecular breeding and genomics driven breeding Spectacular achievements in the fields of molecular breeding transgenics and genomics in the last three decades have facilitated revolutionary changes in oilseed crop improvement strategies and techniques Since the genome sequencing of rice as the first crop plant in 2002 the genomes of about one dozen oilseed crops have been sequenced and more are to follow This has made it possible to decipher the exact nucleotide sequence and chromosomal positions of agroeconomic genes Most importantly comparative genomics and genotyping by sequencing have opened up new vistas for exploring available biodiversity particularly of wild crop relatives for identifying useful donor genes

*Genomic Designing for Abiotic Stress Resistant Pulse Crops* Chittaranjan Kole, 2022-03-23 This book presents deliberations on molecular and genomic mechanisms underlying the interactions of crop plants to the abiotic stresses caused by heat cold drought flooding submergence salinity acidity etc important to develop resistant crop varieties Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding transgenics genomic assisted breeding and the recently emerging genome editing for developing resistant varieties in pulse crops is imperative for addressing FHNEE food health nutrition energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing has provided precise information regarding the genes

conferring resistance useful for gene discovery allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to abiotic stresses The nine chapters each dedicated to a pulse crop in this volume elucidate on different types of abiotic stresses and their effects on and interaction with the crop enumerate on the available genetic diversity with regard to abiotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer present brief on classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts depict the success stories of genetic engineering for developing abiotic stress resistant crop varieties discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker assisted introgression into elite varieties enunciate on different genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing adaptive crop varieties with higher quantity and quality of yields and also elaborate some case studies on genome editing focusing on specific genes for generating abiotic stress resistant crops

**The Physiology of Vegetable Crops, 2nd Edition** Hans Christian Wien, Hartmut Stützel, 2020-05-01 Completely updated and revised this bestselling book continues to explain the growth and developmental processes involved in the formation of vegetables Since the publication of the successful first edition significant discoveries particularly in the area of molecular biology have deepened and broadened our knowledge and understanding of these processes This new edition brings the topic up to date and is presented over two sections the first provides general knowledge on germination transplanting flowering the effects of stress and modelling whilst the second section details the physiology of specific crops or crop groups

**Handbook of Plant and Crop Physiology** Mohammad Pessarakli, 2021-07-12 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the third edition of the Handbook of Plant and Crop Physiology Following its predecessors the fourth edition of this well regarded handbook offers a unique comprehensive and complete collection of topics in the field of plant and crop physiology Divided into eleven sections for easy access of information this edition contains more than 90 percent new material substantial revisions and two new sections The handbook covers the physiology of plant and crop growth and development cellular and molecular aspects plant genetics and production processes The book presents findings on plant and crop growth in response to climatic changes and considers the potential for plants and crops adaptation exploring the biotechnological aspects of plant and crop improvement This content is used to plan implement and evaluate strategies for increasing plant growth and crop yield Readers benefit from numerous tables figures case studies and illustrations as well as thousands of index words all of which increase the accessibility of the information contained in this important handbook New to the Edition Contains 37 new chapters and 13 extensively revised and expanded chapters from the third edition of this book Includes new or modified sections on soil plant water nutrients microorganisms physiological relations and on plant growth regulators both promoters and inhibitors Additional new and modified chapters cover the physiological responses of lower

plants and vascular plants and crops to metal based nanoparticles and agrichemicals and the growth responses of plants and crops to climate change and environmental stresses With contributions from 95 scientists from 20 countries this book provides a comprehensive resource for research and for university courses covering plant and crop physiological responses under normal and stressful conditions ranging from cellular aspects to whole plants *Recent Advances in Flowering Time Control* Christian Jung,Klaus Pillen,Dorothee Staiger,George Coupland,Maria von Korff,2017-03-10 The onset of flowering is an important step during the lifetime of a flowering plant During the past two decades there has been enormous progress in our understanding of how internal and external environmental cues control the transition to reproductive growth in plants Many flowering time regulators have been identified from the model plant *Arabidopsis thaliana* Most of them are assembled in regulatory pathways which converge to central integrators which trigger the transition of the vegetative into an inflorescence meristem For crop cultivation the time of flowering is of upmost importance because it determines yield Phenotypic variation for this trait is largely controlled by genes which were often modified during domestication or crop improvement Understanding the genetic basis of flowering time regulation offers new opportunities for selection in plant breeding and for genome editing and genetic modification of crop species Marker-Assisted Selection (MAS) in Crop Plants, volume II Ting Peng,Baohua Wang,Muhammad Kashif Riaz Khan ,Peng Chee,2024-06-13 Global climate change reductions in arable land and food security demands that plant breeding will continue to play an imperative role in feeding 9 billion people sustainably by 2050 In order to face this challenge modern plant breeding will necessitate the adoption of new technologies and practices to boost production of cultivated plants by capturing or generating more favorable genetic diversity In crop plants the majority of agronomically important traits are quantitatively inherited controlled by multiple genes each with a small effect quantitative trait loci QTLs The most common approach to pre breeding is to use genetic mapping to identify QTLs for key phenotypic variation followed by introgressing those QTLs into the elite gene pool with marker assisted selection MAS which can enhance the selection criteria of phenotypes comparing to conventional breeding with the selection of genes As the cost of genotyping continues to decline the use of genotyping by sequencing GBS technologies or whole genome re sequencing coupled with the release of the genome sequences of plant species have permitted the development of dense arrays of single nucleotide polymorphisms SNPs covering the entire genome which have in turn paved the way to genome wide association studies GWAS Meanwhile fine mapping guided by genome sequences of many plant species have facilitated the exploration of functional genes in addition pan genomes constructed from various available resources such as the reference sequence and its variants raw reads and haplotype reference panels provide a new perspective on QTL locations and potential molecular targets for plant breeding Similarly new approaches to marker trait association analyses such as quantitative trait locus sequencing QTL seq and quantitative trait gene sequencing QTG seq that are based on bulked segregant analysis BSA and whole genome resequencing will help accelerate QTL fine mapping and

identification of the causal genes In conclusion the tools and strategies for MAS in modern plant breeding have been expanding in recent years By embracing a broad array of conventional and new molecular techniques modern plant breeding has a bright future in delivering new crop cultivars to keep our food fiber and biobased economy diverse and safe

**Custom-Designed Crop Breeding, 2 Volume Set** Shri Mohan Jain,Jameel M. Al-Khayri,Sudhir K. Sopory,Muneeb Ahmad Wani,2025-11-11 Discover strategies to develop crop plants with specific traits needed to meet the specific challenges Climate change poses an existential threat to global food supplies with even modest increases in global temperature potentially spelling disaster for crop productivity Plant breeders have applied traditional methods and developed new crop varieties to maintain productivity under specific conditions but there is an urgent need to go much further We must harness the broadest possible range of genomic data and crop breeding practices to create the next generation of resilient food crops Custom Designed Crop Breeding highlights the use of omics based knowledge precision genetics and molecular techniques to breed new climate resistant crops Beginning with an overview of both present and future scenarios in which functional genomics is applied to crops it moves through crop breeding techniques design of crops for stress tolerance and more The result is an essential tool in the fight for a sustainable food supply Custom Designed Crop Breeding Volume 1 Advanced Technologies offers a comprehensive exploration of cutting edge advancements driving modern crop improvement This volume highlights innovative methodologies in genomics climate resilient breeding strategies and the transformative role of artificial intelligence AI and machine learning ML in precision agriculture Spanning diverse topics including genomic tools high throughput phenotyping bioinformatics integration and next gen AI driven predictions this book serves as an essential resource for researchers breeders and professionals seeking to revolutionize agricultural practices for sustainability and productivity Custom Designed Crop Breeding Volume 2 Improved Traits delves into innovative strategies for engineering crops with enhanced traits to address global agricultural challenges This volume is structured around three critical themes abiotic stress tolerance biotic stress resistance and improved nutritional and pharmaceutical quality Edited by leading experts it offers a thorough exploration of advanced techniques like haplotype based breeding genomic selection and root system optimization along with the development of designer crops for resilience sustainability and functional applications Custom Designed Crop Breeding readers will also find Designer crop solutions for abiotic and biotic stresses including drought salinity insects and fungal diseases Highlights on the development of crops tailored for functional foods herbal and aromatic applications Presents the latest methodologies such as haplotype based breeding genomic selection and root architecture optimization for improved yield and resilience Custom Designed Crop Breeding is ideal for professionals and researchers interested in genetic improvements of crop plants based on innovative breeding technologies **Genomics Assisted Breeding of Crops for Abiotic Stress Tolerance, Vol. II** Vijay Rani Rajpal,Deepmala Sehgal,Avinash Kumar,S.N. Raina,2019-07-01 The abiotic stresses like drought temperature cold salinity heavy metals etc affect a great deal on the yield

performance of the agricultural crops To cope up with these challenges plant breeding programs world wide are focussing on the development of stress tolerant varieties in all crop species Significant genomic advances have been made for abiotic stress tolerance in various crop species in terms of availability of molecular markers QTL mapping genome wide association studies GWAS genomic selection GS strategies and transcriptome profiling The broad range of articles involving genomics and breeding approaches deepens our existing knowledge about complex traits The chapters are written by authorities in their respective fields This book provides comprehensive and consolidated account on the applications of the most recent findings and the progress made in genomics assisted breeding for tolerance to abiotic stresses in many important major crop species with a focus on applications of modern strategies for sustainable agriculture The book is especially intended for students molecular breeders and scientists working on the genomics assisted genetic improvement of crop species for abiotic stress tolerance **Application of Genomics-assisted Breeding for Generation of Climate Resilient Crops** ,2015

Climate change affects agricultural productivity worldwide Increased prices of food commodities are the initial indication of drastic edible yield loss which is expected to increase further due to global warming This situation has compelled plant scientists to develop climate change resilient crops which can withstand broad spectrum stresses such as drought heat cold salinity flood submergence and pests thus helping to deliver increased productivity Genomics appears to be a promising tool for deciphering the stress responsiveness of crop species with adaptation traits or in wild relatives toward identifying underlying genes alleles or quantitative trait loci Molecular breeding approaches have proven helpful in enhancing the stress adaptation of crop plants and recent advances in high throughput sequencing and phenotyping platforms have transformed molecular breeding to genomics assisted breeding GAB In view of this the present review elaborates the progress and prospects of GAB for improving climate change resilience in crops which is likely to play an ever increasing role in the effort to ensure global food security **Dissertation Abstracts International** ,2007 **Bibliography of Agriculture** ,1998

*Genomic Designing of Climate-Smart Fruit Crops* Chittaranjan Kole,2020-03-30 This edited book provides a comprehensive overview of modern strategies in fruit crop breeding in the era of climate change and global warming It demonstrates how advances in plant molecular and genomics assisted breeding can be utilized to produce improved fruit crops with climate smart traits Agriculture is facing a number of challenges in the 21st century as it has to address food nutritional energy and environmental security Future fruit varieties must be adaptive to the varying scenarios of climate change produce higher yields of high quality food feed and fuel and have multiple uses To achieve these goals it is imperative to employ modern tools of molecular breeding genetic engineering and genomics for precise plant breeding to produce designed fruit crop varieties This book is of interest to scientists working in the fields of plant genetics genomics breeding biotechnology and in the disciplines of agronomy and horticulture **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 *Genomic Designing for Abiotic Stress Resistant Oilseed Crops* Chittaranjan Kole, 2022-04-05 This book presents deliberations on molecular and genomic mechanisms underlying the interactions of crop plants to the abiotic stresses caused by heat cold drought flooding submergence salinity acidity etc important to develop resistant crop varieties Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding transgenics genomic assisted breeding and the recently emerging genome editing for developing resistant varieties in oilseed crops is imperative for addressing FHNEE food health nutrition energy and environment security Whole genome sequencing of these crops followed by genotyping by sequencing has provided precise information regarding the genes conferring resistance useful for gene discovery allele mining and shuttle breeding which in turn opened up the scope for designing crop genomes with resistance to abiotic stresses The eight chapters each dedicated to a oilseed crop in this volume elucidate on different types of abiotic stresses and their effects on and interaction with the crop enumerate on the available genetic diversity with regard to abiotic stress resistance among available cultivars illuminate on the potential gene pools for utilization in interspecific gene transfer present brief on classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts depict the success stories of genetic engineering for developing abiotic stress resistant crop varieties discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker assisted introgression into elite varieties enunciate on different genomics aided techniques including genomic selection allele mining gene discovery and gene pyramiding for developing adaptive crop varieties with higher quantity and quality of yields and also elaborate some case studies on genome editing focusing on specific genes for generating abiotic stress resistant crops **Bibliography of Agriculture with Subject Index**, 2000

**Genomics-Assisted Crop Improvement** Rajeev K. Varshney, Roberto Tuberosa, 2007-12-13 This superb volume provides a critical assessment of genomics tools and approaches for crop breeding Volume 1 presents the status and availability of genomic resources and platforms and also devises strategies and approaches for effectively exploiting genomics research Volume 2 goes into detail on a number of case studies of several important crop and plant species that summarize both the achievements and limitations of genomics research for crop improvement *Molecular Breeding for Sustainable Crop Improvement* Vijay Rani Rajpal, S. Rama Rao, S.N. Raina, 2016-02-02 The world population is estimated to reach to more than 10 billion by the year 2050 These projections pose a challenging situation for the agricultural scientists to increase crops productivity to meet the growing food demands The unavailability and or inaccessibility to appropriate gene pools with desired traits required to carry out genetic improvement of various crop species make this task formidable for the plant breeders Incidentally most of the desired genes reside in the wild genetic relatives of the crop species Therefore exploration and characterization of wild genetic resources of important crop species is vital for the efficient utilization of these gene



pools for sustainable genetic improvements to assure food security Further understanding the myriad complexities of genic and genomic interactions among species more particularly of wild relatives of crop species and or phylogenetically distant germplasm can provide the necessary inputs to increase the effectiveness of genetic improvement through traditional and or genetic engineering methods This book provides comprehensive and latest insights on the evolutionary genesis of diversity access and its utilization in the evolution of various crop species A comprehensive account of various crops origin exploitation of the primary secondary and tertiary gene pools through breeding biosystematical cytogenetical and molecular phylogenetical relationships and genetic enhancement through biotechnological interventions among others have been provided as the necessary underpinnings to consolidate information on the effective and sustainable utilization of the related genetic resources The book stresses upon the importance of wild germplasm exploration characterization and exploitation in the assimilation of important crop species The book is especially intended for students and scientists working on the genetic improvement of crop species Plant Breeders Geneticists Taxonomists Molecular Biologists and Plant Biotechnologists working on crop species are going to find this book very useful      *Genomic Designing of Climate-Smart Vegetable Crops*

Chittaranjan Kole, 2020-03-02 This book reviews modern strategies in the breeding of vegetables in the era of global warming Agriculture is facing numerous challenges in the 21st century as it has to address food nutritional energy and environmental security Future vegetable varieties must be adaptive to the varying scenarios of climate change produce higher yields of high quality food and feed and have multiple uses To achieve these goals it is imperative to employ modern tools of molecular breeding genetic engineering and genomics for precise plant breeding to produce designed vegetable varieties adaptive to climate change This book is of interest to scientists working in the fields of plant genetics genomics breeding biotechnology and in the disciplines of agronomy and horticulture

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