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Practical Manual on Plant Cytogenetics Ram J. Singh, 2017-11-27 Earlier books on the handling of plant chromosomes have not included many of the innovations in cytological techniques for many important crops that have become available in recent years, including information on associating genes with chromosomes. The aim of this book is to compile all the plant cytogenetic techniques previously published in earlier books into a laboratory manual. The first part of the book describes standard cytological techniques that are routinely used by students. The second part covers methods used for specific crops for which common cytological methods do not work satisfactorily. The third part discusses cytogenetic techniques, cytology, and genetics for physically locating genes on specific chromosomes. This novel book will be highly useful to students, teachers, and researchers as it is a convenient and comprehensive reference for all plant cytogenetic techniques and protocols.

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Cytogenetics and Cytogenomics Tony Heitkam, Sònia Garcia, 2023-07-21 This book provides an up to date account of the most widespread methods used by specialists in the field of plant cytogenetics and the emerging field of cytogenomics that will likely soon be adapted by more labs From the classical basic karyological approaches to the most recent genomics informed and computational methods the volume explores genome size and ploidy level estimation chromosome fixation preparation and manipulation banding and staining techniques in situ hybridization as well as numerous methods that integrate cytogenetics with bioinformatics and computational genomics Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols as well as tips on troubleshooting and avoiding known pitfalls Authoritative and practical **Plant Cytogenetics and Cytogenomics Methods and Protocols** serves as an ideal resource for plant scientists interested in molecular and evolutionary biology breeding systematics and plant omics in general

Plant Cytogenetics Hank Bass, James A. Birchler, 2011-12-02 This reference book provides information on plant cytogenetics for students instructors and researchers Topics covered by international experts include classical cytogenetics of plant genomes plant chromosome structure functional molecular cytology and genome dynamics In addition chapters are included on several methods in plant cytogenetics informatics and even laboratory exercises for aspiring or practiced instructors The book provides a unique combination of historical and modern subject matter revealing the central role of plant cytogenetics in plant genetics and genomics as currently practiced This breadth of coverage together with the inclusion of methods and instruction is intended to convey a deep and useful appreciation for plant cytogenetics We hope it will inform and inspire students researchers and teachers to continue to employ plant cytogenetics to address fundamental questions about the cytology of plant chromosomes and genomes for years to come Hank W Bass is a Professor in the Department of Biological Science at Florida State University James A Birchler is a Professor in the Division of Biological Sciences at the University of Missouri

Plant Cytogenetics Shahryar F. Kianian, Penny M. Avoles Kianian, 2016-08-10 This volume covers a range of methods used in plant cytogenetics beginning with basic analysis of chromosomes and visualizing gene locations to manipulating and dissecting chromosomes and then focusing on less understood features of chromosomes such as recombination initiation sites and epigenomic marks The methods described in **Plant Cytogenetics Methods and Protocols** build on each other and provide those new to the field with a comprehensive platform to support their research endeavours while also introducing advanced techniques to experienced researchers Written in the highly successful *Methods in Molecular Biology* series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough **Plant Cytogenetics Methods and Protocols** is a valuable resource for anyone who is interested in the diverse and wonderfully complex field of cytogenetics

Plant Cytogenetics, Breeding and Evolution Bentlee

Salinas,2018-12-21 There are about 300 315 thousand species of plants of which the great majority some 260 290 thousand are seed plants Green plants provide a substantial proportion of the world s molecular oxygen and are the basis of most of Earth s Ecologies especially on land Plants that produce grains fruits and vegetables form humankind s basic foodstuffs and have been domesticated for millennia Plants play many roles in culture They are used as ornaments and until recently and in great variety they have served as the source of most medicines and drugs The scientific study of plants is known as botany a branch of biology Plant Cytogenetics Breeding and Evolution Plant Cytogenetics comprises a topic of broad interest and increasing importance in plant science In keeping with the exciting advances in plant genetics and genomics we believe that a comprehensive and up to date reference on Plant Cytogenetics would be of great interest and value for researchers instructors and students with interests in genetics plant biology and plant genomics *Cytogenetics in Plant Breeding J. Sybenga*,2012-12-06 An introductory discussion of basic chromosome structure and function preceeds the main text on the application of cytogenetic approaches to the analysis of the manipulation of both the genetic make up and the genetic transmission system of plant breeding material Analysis using light and electron microscopy segregations and molecular techniques yields information for assessing the material before and after manipulation Much attention is given to quantitative methods Manipulation not only involves the construction of specific genotypes but also chromosomal transmission systems Although analysis and manipulation in the somatic cycle are considered the focus is on the generative cycle with emphasis on analysis and subsequent segregation of specifically constructed material The book is intended for plant breeders and other scientists interested in the analysis and manipulation of breeding material at the chromosomal level Comparisons with molecular and cell biological approaches are made and the potential of the various methods is evaluated **PlantOmics: The Omics of Plant Science** Debmalya Barh,Muhammad Sarwar Khan,Eric Davies,2015-03-18 PlantOmics The Omics of Plant Science provides a comprehensive account of the latest trends and developments of omics technologies or approaches and their applications in plant science Thirty chapters written by 90 experts from 15 countries are included in this state of the art book Each chapter describes one topic omics such as omics in model plants spectroscopy for plants next generation sequencing functional genomics cyto metagenomics epigenomics miRNAomics proteomics metabolomics glycomics lipidomics secretomics phenomics cytomics physiomics signalomics thiolomics organelle omics micro morphomics microbiomics cryobionomics nanotechnology pharmacogenomics and computational systems biology for plants It provides up to date information technologies and their applications that can be adopted and applied easily for deeper understanding plant biology and therefore will be helpful in developing the strategy for generating cost effective superior plants for various purposes In the last chapter the editors have proposed several new areas in plant omics that may be explored in order to develop an integrated meta omics strategy to ensure the world and earth s health and related issues This book will be a valuable resource to students and researchers in the field of cutting edge plant omics *Plant Techniques S.M. Khasim,K.*

Thammasiri,S. Rama Rao,M. Rahamtulla,2024-08-09 This book deals with the basic concepts of Plant Science including botanical micro technique and microtomy staining techniques molecular techniques plant tissue culture electron microscopy and cryopreservation and germplasm storage It is the outcome of several decades of research and teaching in plant biology to undergraduate and postgraduate students of Plant Science Horticulture Microbiology and Biotechnology Print edition not for sale in Bangladesh Bhutan India Nepal Pakistan and Sri Lanka **Molecular Techniques in Crop Improvement** Shri

Mohan Jain,D.S. Brar,2013-10-14 Plant breeding aims at the genetic enhancement of crops through the application of principles of Mendelian Genetics and modern tools and techniques of cell and molecular biology Many breeding programs focus on the improvement of traits such as high yield multiple resistance to major diseases insect pests and tolerance to abiotic stresses and improved quality The improved varieties must also fit into the crop rotation systems of different eco agricultural regions for the production of feed fiber food and industrial products The value of new plant varieties in increasing food production has been demonstrated time and again and perhaps the best of all in the Green revolution which was based on the semi dwarf rice and wheat varieties in Asia Recent advances in molecular genetics have opened new opportunities to speed up plant breeding Molecular markers have become important tools in the hands of plant breeders for enhancing the selection efficiency for various agronomic traits Plant breeding has in fact entered in an era of genomics The isolation cloning and moving of genes from diverse biological sources into plant genomes holds promise to broaden the gene pool of crops and tailor plant varieties for specific traits that determine yield quality and resistance to biotic and abiotic stresses This book is a sequel to our previous one on Somaclonal Variation and Induced Mutations in Crop Improvement

Advancement in Crop Improvement Techniques Narendra Tuteja,Renu Tuteja,Nishat Passricha,Shabnam Saifi,2020-06-13 Advancement in Crop Improvement Techniques presents updates on biotechnology and molecular biological approaches which have contributed significantly to crop improvement The book discusses the emerging importance of bioinformatics in analyzing the vast resources of information regarding crop improvement and its practical application and utilization Throughout this comprehensive resource emphasis is placed on various techniques used to improve agricultural crops providing a common platform for the utility of these techniques and their combinations Written by an international team of contributors this book provides an in depth analysis of existing tools and a framework for new research Reviews techniques used for crop improvement from selection and crossing over to microorganismal approaches Explores the role of conventional biotechnology in crop improvement Summarizes the combined approaches of cytogenetics and biotechnology for crop improvement including the importance of molecular techniques in this process Focuses on the emerging role of bioinformatics for crop improvement **A Laboratory Guide for Cellular and Molecular Plant Biology I.**

Negrutiu,Gharti,Chhetri,2013-03-09 This laboratory guide comes at a time when several other method books have already been published in this field Is this one different from the others Yes and no There was no attempt made to be comprehensive

Rather data were brought to bear on areas where enough competence has been gathered in our laboratories and to complement recent method books many of which cover extensively various aspects of molecular biology in those matters which appeared to us somewhat neglected There was a constant preoccupation and effort to provide miniaturized procedures that are both simple and time saving Interest was devoted to standardized procedures and culture conditions avoiding dogmas such as those giving excessive importance to sophisticated culture media with endless adjustments for local or personal considerations The key to success is the quality of the plant material serving as a source of cells Consequently isolation extraction or culture techniques can be simplified and standardized This is symptomatic for our times as it marks the end of a period when methodological matters were frequently above the biological problems The times of methods above all is basically over despite the fact that many of us still believe that say tissue culture is a science per se By presenting a few original techniques we believe that one seriously reduces the empiricism still prevailing in this area of research

Molecular Cytogenetics and Crop Improvement Pramod Kumar Pandey, Mohd Ashaq, C Bharatkumar, Satish D, Jasti Srivarsha, Sheetanshu Gupta, 2025-12-02 This volume presents the principles techniques and applications of molecular cytogenetics in modern crop improvement Beginning with genome organization it covers chromosome visualization gene mapping pre breeding strategies trisomics cytogenomics and polyploidy Integrating classical cytogenetics with molecular biology the book offers practical tools for developing resilient high yield crops Authored by an expert team of scientists Molecular Cytogenetics for Crop Improvement is an essential reference for plant breeders geneticists biotechnologists and students aiming to meet global food security challenges through innovative crop science Comprehensive coverage of molecular cytogenetic principles techniques and applications Bridges classical cytogenetics with genomic and biotechnological tools Practical methodologies for gene mapping pre breeding and hybrid seed production Expert contributions from leading researchers in crop science Addresses urgent agricultural challenges including climate resilience and food security Print edition not for sale in India **Plant Breeding Abstracts** ,1993 **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 Alien Gene Transfer in Crop Plants, Volume 1 Aditya Pratap,Jitendra Kumar,2013-11-01 Genetic engineering and biotechnology along with conventional breeding have played an important role in developing superior cultivars by transferring economically important traits from distant wild and even unrelated species to the cultivated varieties which otherwise could not have been possible with conventional breeding There is a vast amount of literature pertaining to the genetic improvement of crops over last few decades However the wonderful results achieved by crop scientists in food legumes research and development over the years are scattered in different journals of the World The two volumes in the series Alien Gene Transfer in Crop Plants address this issue and offer a comprehensive reference on the developments made in major food crops of the world These volumes aim at bringing the contributions from globally renowned scientists at one platform in a reader friendly manner The 1st volume entitled Alien Gene Transfer in Crop Plants Innovations Methods and Risk Assessment will deal exclusively with the process and methodology The contents of this volume have been designed to appraise the readers with all the theoretical and practical aspects of wide hybridization and gene transfer like processes and methods of gene transfer role of biotechnology with special reference to embryo rescue genetic transformation protoplast fusion and molecular marker technology problems such as cross incompatibility and barriers to distant hybridization and solutions to overcome them Since wild and weedy relatives of crop plants may have negative traits associated with them there are always possibilities of linkage drag while transferring alien alleles Therefore problems and limitations of alien gene transfer from these species will also be discussed in this series Further the associated risks with this and assessment of risks will also be given due weightage **Canadian Journal of Plant Science** ,1986

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