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**Plant Genomic and Cytogenetic Databases** Sònia Garcia,Neus Nualart,2023-08-30 This volume discusses the latest online plant genomics and cytogenetic resources used by plant evolutionary biologists and plant breeders The chapters in this book are organized into two parts Part One looks at plant genomic databases and covers topics such as plant phenomics and genomics research data repositories InpactorDB PlanTEenrichment and PEATmoss among others Part Two looks at cytogenetics and chromosome related databases and covers resources such as the Plant DNA C values database the Delphineae Chromosome Database DCDB B chrom a Database on B chromosomes and the Plant Ribosomal DNA Database Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective databases and offers explicit directions on how to access and get the most of these resources Cutting edge and comprehensive Plant Genomic and Cytogenetic Databases is a valuable instrument for any plant science researcher who is interested in learning more about the wealth of information that is available through the use of these databases **B**

**Chromosomes in the Eukaryote Genome** Juan Pedro M. Camacho,2004 B chromosomes are additional passengers found in the karyotypes of about 15% of eukaryote species They are best understood as genome parasites exploiting the host genome because of their transmissional advantage and are frequently deleterious for the organism carrying them Since the last compilation of B chromosome literature more than 20 years ago many new findings have contributed to building an increasing body of knowledge of these mysterious genetic elements This single topic issue of Cytogenetic and Genome Research updates these new data in its 40 papers authored by researchers from 19 countries It provides up to date reviews on plants fish amphibians and mammals and for the first time on Sternorrhyncha hemipterans decapodan crustaceans helminth parasites and lizards It also presents new original data on many aspects of B chromosomes including their definition new occurrences frequency structure composition origin effects on the host genome transmission and population dynamics Unique in its field this publication is recommended reading for cytogeneticists interested in chromosome polymorphisms for evolutionary biologists interested in selfish genetic elements and for geneticists interested in the intragenomic conflict

Orphan Plant Species for Food Security and Nutrition: Successes, Challenges, and a Way Forward Enoch G.

Achigan-Dako,Iago Lowe Hale,Katherine Steele,E. O. Deedi Sogbohossou,2023-03-31

## **Fundamentals of Field Crop**

**Breeding** Devendra Kumar Yadava,Harsh Kumar Dikshit,Gyan Prakash Mishra,Shailesh Tripathi,2022-05-05 This book is an advanced textbook and a reference book for the post graduate plant breeding students and the plant breeders It consolidates fundamental concepts and also the latest advances in plant breeding practices including development in crop genomics It contains crop wise explanation on origin reproduction genetics of yield contributing traits biotic and abiotic stresses nutritional improvement and crop specific plant breeding procedures and techniques The chapters are planned to describe crop focused breeding procedure for the major crop plants as per their economic importance The recent developments in

breeding of field crops have been reported The recent progress made in mapping traits of economic importance has been critically reviewed for each crop The progress made in markers assisted selected in few crops has been summarized This book bridges the knowledge gap and bring to the researchers and students information on modern breeding tools for developing biotic and abiotic stress tolerant climate resilient and micronutrient rich varieties of field crops The chapters in book are contributed by experienced Plant Breeders      **Plant Cytogenetics, Third Edition** Ram J. Singh,2016-11-18

Cytogenetics plays an important role in understanding the chromosomal and genetic architecture of plant species Plant Cytogenetics Third Edition follows the tradition of its predecessors presenting theoretical and practical aspects of plant cytogenetics Chapters describe correct handling of plant chromosomes methods in plant cytogenetics cell division reproduction methods chromosome nomenclature karyotype analysis chromosomal aberrations genome analysis transgenic crops and cytogenetics in plant breeding This new edition begins with a brief introduction on the historical aspect of cytogenetics and flows directly into handling of plant chromosomes by classical and modern cytological techniques classical Mendelian Genetics brief description of cell division and chromosome identification by karyotype analysis The comprehension of cytogenetics is incomplete without information on the role of aneuploidy in associating a gene on a particular chromosome and the book covers these methodologies as a primary topic Covering classical to modern cytogenetics the book presents to the reader the crucial role of cytogenetics in improving crops      **Annuaire Des Organisations Internationales** ,1967

Edition for 1983 84 published in 3 vols vol 1 Organization descriptions and index vol 2 International organization participation vol 3 Global action networks edition for 2012 2013 published in 5 vols vol 4 International organization bibliography and resources vol 4 Statistics visualizations patterns      Plant Cytogenetics Ram J. Singh,2002-12-26 Plant cytogenetics has progressed at a rapid rate since the publication of the first edition Plant Cytogenetics Second Edition presents an up to date review of cytogenetics It covers the latest in the various classical and modern techniques in the handling of chromosomes karyotype analysis genetics of meiosis genomic relationships and chromosome manipulation It includes new chapters on extra chromosomal inheritance and the mode of reproduction in plants particularly apomixis as well as new sections on the molecular basis of heredity genomic in situ hybridization and the classical and molecular methods of genome analysis The author also elaborates on the cytogenetic basis of somaclonal variation generated through cell and tissue culture      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, Breeding and Evolution Bentlee Salinas,2018

**Plant Cytogenetics** Maria J. Puertas,Tomás Naranjo,2005 Plants have played a significant role in the discovery of inheritance principles and many biological phenomena such as the chromosomal basis of inheritance the genome dynamics conferred by transposable elements or the evolutionary implications of chromosomal mutations While the molecular basis of gene structure and function has been widely studied many aspects of chromosome structure its functional significance and evolutionary implications remain to be established This special issue of Cytogenetic and Genome Research presents an excellent compilation of current research in a wide range of cultivated and wild plant species The contributions reviews as well as original articles by experts in the field reflect representative aspects of nuclear and chromosome organization behavior in somatic and germ cells evolution and manipulation in breeding programs It is an excellent source of information for investigators and students in plant genetics plant biology and agronomy

**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

**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

**Techniques of Plant Cytogenetics** Joseph Jahier,1996

**Plant 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

*Reviews in Plant Cytogenetics* Maria J. Puertas,Tomás Naranjo,2008 Chromosomes represent the main focus of cytogenetics One of the main challenges of modern day cytogenetics is to unravel the relation between the genomic content and architecture of chromosomes and their genetic function Plant species have provided an important contribution to the knowledge of chromosome evolution and those with large chromosomes have often been used in the study of chromosome behavior The rapid development of molecular tools in the last few years has greatly furthered advances in elucidating the organization behavior and evolution of chromosomes This special issue of Cytogenetic and Genome Research presents an excellent compilation of current research in plant cytogenetics In a series of review articles experts in the field explain and discuss the organization of chromosomes and the impact of new technologies the organization and evolution of sex chromosomes and B chromosomes recent advances in meiosis and different aspects of chromosome evolution and plant breeding Providing an excellent update this book is recommended to researchers teachers and students in genetics plant biology and agronomy

**Plant Cytogenetics** David Moresby Moore,1976 The beginnings of cytogenetics Chromosome structure Chromosome division and behaviour Chromosome changes structure number Chromosomes and plant evolution Suggestions for further reading

**Tecniques of Plant Cytogenetics** Joseph Jahier,1992

**Plant Cytogenetics** Shahryar F. Kianian,Penny M. Avoles Kianian,2016 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 OCLC **Cytogenetics, Plant Breeding and Evolution**  
Umakant Sinha,Sunita Sinha,1985 **Plant Cytogenetics** Maria J. Puertas,Tomás Naranjo,2005

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