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Plant cytogenetics is an indispensible tool for modern genome projects, providing rapid discovery or validation of physical maps and guiding efficient choice of bacterial artificial chromosomes for sequencing.

*historical and modern perspective on plant cytogenetics...*

Plant Cytogenetics-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

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The Paper Plant Cytogenetics • Details cytogenetics in plant breeding, covering recombination, mutations, polyploidy , genetic transformation, and wide hybridization. • Describes the mechanics of a wide variety of ... (PDF) Plant Cytogenetics 2nd edition - ResearchGate Plant Cytogenetics, Third Edition follows the tradition of its predecessors presenting theoretical and

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*The Molecular Cytogenetics of Plants | Journal of Cell Science*

Comparative Cytogenetics is a peer-reviewed, open access, online & print journal, launched to accelerate research on all aspects of plant and animal cytogenetics, karyosystematics, and molecular systematics. It publishes comprehensive research on karyotypes, characteristics of mitosis and meiosis, micro- and macrogametogenesis, modes of reproduction, mechanisms of sex determination and taxonomic conclusions.

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The sixth section (Cytogenetics and Plant Breeding) covers, in three papers, an explanation of chromosome doubling during androgenesis as result of endoreduplication, nuclear fusion, endomitosis and colchicine-mitosis, the cytogenetics of interspecific Festulolium hybrids based on genome identification and meiosis analysis using FISH and GISH assays, and the exploitation of cytogenetic tools for studies in the crop-to-wild gene transfer scenario.

*Reviews in plant cytogenetics - PubMed Central (PMC)*

The sixth section (Cytogenetics and Plant Breeding) covers, in three papers, an explanation of chromosome doubling during androgenesis as result of endoreduplication, nuclear fusion, endomitosis and colchicine-mitosis, the cytogenetics of interspecific Festulolium hybrids based on genome identification and meiosis analysis using FISH and GISH assays, and the exploitation of cytogenetic tools for studies in the crop-to-wild gene transfer scenario.

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.

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.

Plant cytogenetics has progressed at a rapid rate since the publication of the first edition. Plant Cyto genetics, 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.

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.

The beginnings of cytogenetics; Chromosome structure; Chromosome division and behaviour; Chromosome changes structure , number; Chromosomes and plant evolution; Suggestions for further reading.

Cytogenetics and Genomics, Physical Mapping: Microdissection and microcloning of plant chromosomes; Organization and evolution of highly repeated satellite DNA sequencesin plant chromosomes; Unraveling the genome structure of polyploids using FISH and GISH; examples of sugarcane and banana; Diversity of a major repetitive DNA sequence in diploid and polyploidTriticeae; Variability of the chromosomal distribution of Ty3-gypsy retrotransposns in the populations of two wild Triticeae species; Nuclear genome size and genomic distribution of ribosomal DNA in Musa and Ensete (Musaceae); taxonomic implications Cytogenetics and Genomics, Physical Mapping: Microdissection and microcloning of plant chromosomes; Organization and evolution of highly repeated satellite DNA sequences in plant chromosomes; Unraveling the genome structure of polyploids using FISH and GISH - examples of sugarcane and banana; Diversity of a major repetitive DNA sequence in diploid and polyploid Triticeae; Variability of the chromosomal distribution of Ty3-gypsy etrotransposns in the populations of two wild Triticeae species; Nuclear genome size and genomic distribution of ribosomal DNA in Musa and Ensete (Musaceae); taxonomic implications; Long-range organization of plant satellite repeats investigated using strand-specific c FISH; Cytogenetic mapping in maize; 3D Analysis of chromosome architecture: advantages and limitations with SEM; High-resolution physical mapping of the secalin-1 locus of rye on extended DNA fi bers; Recent development of image analysis methods in plant chromosome research. Nuclear and Chromosome Organization: McClintock's controlling elements: the full story; Ribosomal DNA heterochromatin in plants; The positioning of rye homologous chromosomes added to wheat through the cell cycle in somatic cells untreated and treated with colchicine; Movement ability of rye terminal neocentromeres; The simple ultrastructure of the maize kinetochore fi ts a two-domain model; Molecular analysis of holocentric centromeres of Luzula species; The controversial telomeres of lily plants; Novel phosphorylation of histone H3 at threonine 11 that temporally correlates with condensation of mitotic and meiotic chromosomes in plant cells; Minichromosomes derived from the B chromosome of maize; Differentiating plant cells switched to proliferation remodel the functional organization of nuclear domains; Chromosome organization in wheat endosperm and embryo. Cell Division, Mitosis and Meiosis: A strategy to investigate the plant meiotic proteome; Plant chromosome homology: hypotheses relating rendezvous, recognition and reciprocal exchange; Recombination nodules in plants; Understanding the cytological diploidization mechanism of polyploid wild wheats; Synaptic behaviour of hexaploid wheat haploids with different effectiveness of the diploidizing mechanism; Meiotic mutations in rye Secale cereale L.; Strategies for the study of meiosis in rye; Centromere-specific c repetitive sequences from Torenia, a model plant for interspecific fertilization, and whole-mount FISH of its interspecific c hybrid embryos; Genome evolution of allopolyploids: a process of cytological and genetic diploidization; Allopolyploidy - a shaping force in the evolution of wheat genomes; The genome organization and diversifi cation of maize and its allied species revisited: evidences from classical and FISH-GISH cytogenetic analysis; Architecture and evolution of dinofl agellate chromosomes: an enigmatic origin; The relationships among lemons, limes and citron: a chromosomal comparison; Biogeographic distribution of polyploidy and B chromosomes in the apomictic Boecheera holboellii complex; Robertsonian translocations in wheat arise by centric misdivision of univalents at anaphase I and rejoining of broken centromeres during interkinesis of meiosis II; Molecular cytogenetics and tandem repeat sequence evolution in the allopolyploid Nicotiana rustica compared with diploid progenitors N. paniculata and N. undulata; Identification of individual chromosomes and parental genomes in Brassica juncea using GISH and FISH. Cytogenetics and Plant Breeding: Wheat cytogenetics in the genomics era and its relevance to breeding; Recent developments in durum wheat chromosome engineering; Production of alien chromosome additions and their utility in plant genetics; Recent progress in barley improvement using wild species of Hordeum; Detection of alien chromatin introgression from Thinopyrum into wheat using S genomic DNA as a probe - A landmark approach for Thinopyrumgenome research; Characterization of derivatives from wheat-Thinopyrum wide crosses; Development and characterization of potato-Solanum brevidens chromosomal addition/substitution lines; Limitations of in situ hybridization with total genomic DNA in routine screening for alien introgressions in wheat; Cytogenetics of Hordeum chilense: current status and considerations with reference to breeding; Cytogenetics of Triticum x Dasypyrum hybrids and derived lines; A decade of 'chromosome painting' in Lolium and Festuca; Central cell nuclear-cytoplasmic incongruity: a mechanism for segregation distortion in advanced backcross and selfed generations of (Allium cepa L. x Allium fi stulosum L.) x A. cepa interspecific c hybrid derivatives.

Cytogenetics of Aneuploids deals with the cytogenetic aspects of aneuploidy in plants, emphasizing the trisomics, monosomics, and nullisomics and cytogenetics of substitution lines as well as alien additions and substitutions. An account of aneuploidy in animals and man is also given. This volume is organized into 12 chapters and begins with an overview of terminology and chromosomal formulas, along with a brief history of the cytogenetics of aneuploids as a field of enquiry. The next chapters review the entire literature on trisomics, their sources, cytology, transmission rates, genetics, morphology, anatomy, physiology, and biochemistry. The discussion then shifts to monosomics and nullisomics, including their sources and cytology as well as breeding behavior, morphology, and genetic studies. Other uses of monosomics and nullisomics are considered. The following chapters deal with intervarietal substitutions and alien additions and substitutions, emphasizing different methods of producing substitution lines and their utility in genetic analysis and practical plant breeding programs. The book concludes by describing special features of aneuploidy in animals and highlighting specific cases of aneuploidy in the animal kingdom. This book will be of interest to plant breeders and geneticists.

Global Tea Breeding: Achievements, Challenges and Perspectives provides a global review on biodiversity and biotechnology issues in tea breeding and selection. The contributions are written by experts from China, India, Kenya, Sri Lanka, Vietnam, Turkey, Indonesia, Japan, Bangladesh, Korea, Nigeria, and etc., which countries amount to 90% of the world tea production. This book focuses on the germplasm, breeding and selection of tea cultivars for the production of black, green and Oolong teas from the tea plant, Camellia sinensis (L.) O. Kuntze. It can benefit the tea breeders in the global tea industry, as well as the breeders of other woody cash crops like coffee and other sub-tropical fruit trees. Liang Chen is a Professor and Associate Director at National Center for Tea Improvement, Tea Research Institute of the Chinese Academy of Agricultural Sciences (TRICAAS), Hangzhou, China. Zeno Apostolides is a Professor at the Department of Biochemistry, University of Pretoria, South Africa. Zong-Mao Chen is the Academician of the Chinese Academy of Engineering and a Professor at the Tea Research Institute of the Chinese Academy of Agricultural Sciences, Hangzhou, China.

An introductory discussion of basic chromosome structure and function precedes 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.

This two-volume work surveys the entire range of general aspects of chromosome research in plants. The first volume covers cytogenetics of cereals and millets with more than one chapter being devoted to the same crop to give a detailed treatment to an up-to-date status of chromosome research. This second volume deals with cytogenetics of plant materials including legumes, vegetable and oil crops, sugar crops, forage crops: fibre crops, medicinal crops and ornamentals. The book will be useful both as a reference work and a teaching aid to satisfy a wide range of workers. Every chapter has been written by an expert who has been involved in chromosome research on a particular plant material for many years so that the treatment is authoritative and up-to-date in most cases.

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