



The Handling of Chromosomes.

Darlington, C D ; La Cour, L F

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The Handling Of Chromosomes

Douglas Edward Lea



The Handling Of Chromosomes:

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The Handling of Chromosomes, By C.D. Darlington, and L.F. La Cour, 1942 **The Handling of Chromosomes, by C.D. Darlington and L.F. La Cour** Cyril Dean Darlington, 1969 *The Handling of Chromosomes, by C.D. Darlington, F.R.S. and L.F. La Cour* Cyril Dean Darlington, 1942 **The Handling of Chromosomes** Cyril Dean DARLINGTON (and LA COUR (L. F.) of the John Innes Horticultural Institution.), Lennard Francis LA COUR, 1962 **Chromosome Techniques** Arun Sharma, Archana Sharma, 2014-04-24

Chromosome Techniques Theory and Practice Third Edition focuses on chromosome research. The book first discusses pre-treatment and hypotonic treatment. Pre-treatment for clearing the cytoplasm and softening the tissues, separation of chromosomes, and clarification of constrictions and hypotonic treatment for chromosome spread are described. The text also explains fixation and processing, including fixing of fluids and mixtures and air-drying techniques for chromosome study. The selection also discusses methods for special materials. Study of division in embryos, mother cells, study of chromosomes from thallophytes, salivary gland lampbrush and pachytene chromosomes, spiral structure, and secondary constriction are explained. The text also discusses microscopy, including ordinary light microscopy, high-resolution autoradiography, and light microscope autoradiography. The book discusses study of plant chromosomes from tissue culture, chromosome analysis following short and long-term cultures in animals, including man, and chromosome analysis from malignant tissues. The text takes a look at the banding patterns of chromosomes, including banding pattern techniques, C-banding, and representative schedules for comparative study of different banding patterns. The book further describes somatic cell fusion and the chemical nature of chromosomes, proteins, and enzymes. The text is a vital source of information for readers wanting to conduct research on chromosomes.

Human Chromosome Methodology Jorge J. Yunis, 2012-12-02

Human Chromosome Methodology serves as an authoritative guide to cytogenetic techniques. This book presents each phase of laboratory work from preparation of materials for the X and Y bodies to application of other

laboratory techniques including chromosome identification autoradiography and dermatoglyphics The text also describes the structure and molecular organization of chromosomes and the advances in the automation of chromosome analysis It provides a thorough review of the clinical manifestations of chromosome disorders Organized into 13 chapters the book presents the illustrated and diagrammatic examples and discussions of the subject matter and detailed tables and charts for learning efficiency It also provides outlined presentation of cytogenetic procedures and notes and comments for each procedure that will assist readers in erroneous work phases Moreover it gives thorough lists of references in each chapter for further reading This reference will be useful for research professionals lecturers genetics and molecular biology students and members of the medical profession involved in genetics

Chromosomes Today M. D. Bennett, 2012-12-06 **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

One Hundred Years of Chromosome Research and What Remains to be Learned A. Lima-de-Faria, 2013-06-29 One Hundred Years of Chromosome Research What Remains to be Learned offers the reader a critical analysis of the observations and experiments that shaped the last 100 years of chromosome research as well as the ideas which prevailed during this period Emphasis is placed on what remains to be learned particularly in light of reality of the sequencing of DNA which leaves the previous era of chromosome research as a prehistoric event It is at this turning point that well formulated questions can be asked about many of the chromosome's properties which remain to be unveiled The author Lima de Faria is Professor Emeritus of Molecular Cytogenetics at Lund University Sweden previously Head of the Institute of Molecular Cytogenetics Lund University

Human Chromosomes Eeva Therman, 2012-12-06 This book provides an introduction to human cytogenetics It is also suitable for use as a text in a general cytogenetics course since the basic features of chromosome structure and behavior are shared by all eukaryotes Because my own background includes plant and animal cytogenetics many of the examples are taken from organisms other than the human Since the book is written from a cytogeneticist's point of view human syndromes are described only as illustrations of the effects of abnormal chromosome constitutions on the phenotype The selection of the phenomena to be discussed and of the photographs to illustrate them is in many cases subjective and arbitrary and is naturally influenced by my interests and the work done in our laboratory The

above paragraph from the Preface of the first edition of this book also fits the present edition However so much has happened in five years in cytogenetics that apart from a couple of pages here and there the whole book has been rewritten and nine new chapters have been added The system used in the first edition to cite whenever possible the latest and or the most comprehensive review rather than the original publications has been followed here also Not only would complete literature citations increase the size of the book too much but many readers have expressed satisfaction with the referencing method used here

Evolution, Composition and Regulation of Supernumerary B Chromosomes Andreas Houben, Neil Jones, Cesar Martins, Vladimir Trifonov, 2019-04-25 Supernumerary B chromosomes Bs are dispensable genetic elements found in thousands of species of plants and animals and some fungi Since their discovery more than a century ago they have been a source of puzzlement as they only occur in some members of a population and are absent from others When they do occur they are often harmful and in the absence of selfishness based on mechanisms of mitotic and meiotic drive there appears to be no obvious reason for their existence Cytogeneticists have long wrestled with questions about the biological existence of these enigmatic elements including their lack of any adaptive properties apparent absence of functional genes their origin sequence organization and co evolution as nuclear parasites Emerging new technologies are now enabling researchers to step up a gear to look enthusiastically beyond the previous limits of the horizon and to uncover the secrets of these silent chromosomes This book provides a comprehensive guide to theoretical advancements in the field of B chromosome research in both animal and plant systems

The Man Who Invented the Chromosome Oren Solomon Harman, Oren Solomon Harman, 2009-06-30 Born by mistake or connivance to struggling parents in a small Lancashire cotton town in 1903 an uninspired Darlington inadvertently escaped the obscurity of farming life and rose instead against all odds to become within a few short years the world's greatest expert on chromosomes and one of the most penetrating biological thinkers of the twentieth century Harman follows Darlington's path from bleak prospects to world fame showing how within the most miniscule of worlds he sought answers to the biggest questions how species originate how variation occurs how Nature both blind and foreboding random and insightful makes her way from deep past to unknown future But Darlington did not stop there Chromosomes held within their tiny confines untold dark truths about man and his culture This passionate conviction led the once famed Darlington down a path of rebuke isolation and finally obscurity As The Man Who Invented the Chromosome unfolds Darlington's forgotten tale the Nazi atrocities the Cold War the crackpot Lysenko the molecular revolution eugenics Civil Rights the welfare state the changing views of man's place in nature biological determinism all were interconnected Just as Darlington's work provoked him to ask questions about the link between biology and culture his life raises fundamental questions about the link between science and society

Data Algorithms Mahmoud Parsian, 2015-07-13 If you are ready to dive into the MapReduce framework for processing large datasets this practical book takes you step by step through the algorithms and tools you need to build distributed MapReduce applications with Apache

Hadoop or Apache Spark Each chapter provides a recipe for solving a massive computational problem such as building a recommendation system You ll learn how to implement the appropriate MapReduce solution with code that you can use in your projects Dr Mahmoud Parsian covers basic design patterns optimization techniques and data mining and machine learning solutions for problems in bioinformatics genomics statistics and social network analysis This book also includes an overview of MapReduce Hadoop and Spark Topics include Market basket analysis for a large set of transactions Data mining algorithms K means KNN and Naive Bayes Using huge genomic data to sequence DNA and RNA Naive Bayes theorem and Markov chains for data and market prediction Recommendation algorithms and pairwise document similarity Linear regression Cox regression and Pearson correlation Allelic frequency and mining DNA Social network analysis recommendation systems counting triangles sentiment analysis **Actions of Radiations on Living Cells** Douglas Edward Lea, Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70

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