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**FERTILITY**  
*and*  
**CHROMOSOME PAIRING:**  
**RECENT STUDIES**  
*in*  
**PLANTS *and* ANIMALS**

**Christopher B. Gillies**

**CRC PRESS**

# Fertility And Chromosome Pairing Recent Studies In Plants And Animals

**Ken McElreavey**



## **Fertility And Chromosome Pairing Recent Studies In Plants And Animals:**

**Fertility and Chromosome Pairing** Christopher Bob Gillies, 2020-07-24 This book discusses the nature of meiotic chromosome pairing effects which may play a role in the determination of fertility. In particular, data and illustrations from the application of recently developed electron microscopic spreading techniques will allow researchers in related fields to come to grips with the recent advances in the cytogenetics of meiotic chromosome pairing behavior. Topics dealt with include meiotic and synaptonemal complex behavior in humans and mice with a variety of chromosomal and genetic abnormalities; sex chromosome pairing in mammals and birds; the significance for fertility of pairing in mammals and birds; the significance for fertility of XY pairing and crossing over; the effects of hybridity on pairing and fertility in plants; and the genetic control of synaptonemal complex formation and crossing over in polyploids. This is a timely reference book for graduate level medical and veterinary students and scientists in the field of genetics and cell biology. Progress in Botany 69 Ulrich

Lüttge, Wolfram Beyschlag, Jin Murata, 2007-12-10 With one volume published each year, this series keeps scientists and students current with the latest developments and results in all areas of the plant sciences. This present volume includes insightful reviews covering genetics, cell biology, physiology, comparative morphology, systematics, ecology, and vegetation science.

**Chromosomes Today** N. Henriquez-Gil, J.S. Parker, M. Puertas, 2012-12-06 Chromosomes Today Volume 12 records the plenary proceedings of the 12th triennial International Chromosome Conference, presenting an overview of the current concerns in the developing studies of animal, plant, and human cytogenetics. As well as giving an accurate historical record of the achievements in chromosome studies, this important series points the way forward, emphasizing the areas in which new developments will take place. Volume 12 explores the complete integration of molecular biology and cytogenetics, evaluating the consensus of the world's cytogeneticists concerning the nature and activities of the chromosome. It reinforces our view of the chromosome as the genetic organelle whose structure, behaviour, and modification underlie our modern concept of eukaryote genetics.

**Sex Chromosomes and Sex Determination in Vertebrates** Alberto J. Solari, 2024-11-01 The cloning of the SRY gene and the attainment of XX mice transgenic for the Sry gene opened a new era in research on sex determination. This book surveys current knowledge of sex chromosomes and sex determination in all vertebrate classes, relying on the restriction of genetic recombination in sex chromosomes as the unifying concept of this subject. The book's interdisciplinary approach integrates contributions from the fields of cytogenetics, molecular biology, developmental biology, and evolutionary genetics. A detailed treatment of the meiotic behavior of sex chromosomes is featured, and the entire text is supplemented by numerous schemes, drawings, and electron micrographs. The book will be valuable to general cytogeneticists, vertebrate zoologists, and veterinarians and medical practitioners interested in the foundations of sex determination and the current knowledge of sex chromosomes. It will also interest students in advanced undergraduate and graduate courses in these areas.

**Chromosomal Alterations** Günter Obe, Adayapalam T. Natarajan, 2012-12-06 Due to sensitive molecular

biological techniques our understanding of chromosomal aberrations is steadily increasing Provided here is a review of basic and applied aspects of the field Chromosome structure induction of DNA lesions by different clastogenic agents and their repair induction of aberrations by agents which affect specific sequences in the DNA and factors affecting induction and yield of chromosomal aberrations are covered Further topics such as automation of aberration scoring problems associated with using chromosomal aberrations and micronuclei in population monitoring and the importance of chromosomal aberration assays in mutagenicity testing of chemicals are included Chromosome Biology Rudi Appels,R. Morris,Bikram S. Gill,C. E. May,2012-12-06 Chromosome biology has been brought to a golden age by phenomenal advanced in molecular genetics and techniques This is true in the plant arena and it is becoming increasingly true in animal studies where chromosomes are more difficult to work with With advanced knowledge of transformation scientists can tell exactly where a new element enters a chromosome Conversely molecular biologists can make large mistakes if they do not understand the behavior of chromosomes Written by internationally recognized experts in the field this book is the most authoritative work on the subject to date Students of genetics crop science and plant breeding entomology animal science and related fields will benefit from this comprehensive and practical textbook Chromosomes Today M. Schmid,Indrajit Nanda,2004-02-29 Chromosomes Today volume 14 records the plenary proceedings of the 14th International Chromosome Conference presenting an overview of the current concerns in plant animal and human cytogenetics This volume provides up to date information regarding relevant aspects on structure function and evolution of chromosomes meiosis sex chromosomes and cancer cytogenetics It contains invited contributions from some of the world s leading experts in the field **Advances in Mutagenesis Research** Günter Obe,2012-12-06 The new field of applied genetic research genetic toxicology and mutation research investigates the mutagenicity and cancerogenicity of chemicals and other agents Permanent changes in genes and chromosomes or genome mutations can be induced by a plethora of agents including ionizing and nonionizing radiations chemicals and viruses Mutagenesis research has two aims 1 to understand the molecular mechanisms leading to mutations and 2 to prevent a thoughtless introduction of mutagenic agents into our environment Both aspects namely basic and applied will be treated in the new series **Advances in Mutagenesis Research** **Nuclear Structure and Function** Miguel Berrios,1998 This volume is a comprehensive guide to the methodologies used in the study of structural domains of cell nuclei The text covers chromatin the karyoskeleton the soluble domain and the nucleolus It details methods that are used to isolate components from these domains and techniques used to assemble and disassemble nuclear elements There is also coverage of three dimensional mapping and localization of nuclear processes Key Features Provides a practical laboratory guide for studying cell nuclei Includes comprehensive and easy to follow protocols Alpha-Keto Acid Dehydrogenase Complexes M.S. Patel,T.E. Roche,R.A. Harris,2012-12-06 Found in all organisms the alpha keto acid dehydrogenase complexes have central roles in cellular metabolism and are major sites of regulation The understanding of the organization

function and regulation of these quintessential multienzyme complexes has been greatly advanced by studies employing molecular biology and biophysical techniques Although these enzyme systems have some features in common their diversity in fulfilling unique organism or tissue specific roles is truly amazing These systems have medical importance in areas ranging from defects in regulation linked to diabetes heart disease obesity nutrition defects to inherited diseases inborn errors maple syrup urine disease to acquired immune diseases primary biliary cirrhosis This book brings together wide ranging recent findings on the structure function relationships gene regulation and genetic defects of the alpha keto acid dehydrogenase complexes namely the pyruvate dehydrogenase alpha ketoglutarate dehydrogenase and the branched chain alpha keto acid dehydrogenase complexes A wide variety of experimental approaches together with new results presented in this book should serve as a resource for beginning to established investigators in the field as well as scientists who are interested in mitochondria dehydrogenases kinases phosphatases lipoic acid thiamine pyrophosphate and enzyme complexes

**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

**Hybrid Zones and the Evolutionary Process** Richard Gerald Harrison, 1993 Hybrid zones geographical areas in which the hybrids of two races are found have attracted the attention of evolutionary biologists for many years both because they are windows on the evolutionary process and because the patterns of animals and plant variation seen in hybrid zones do not fit the traditional classification schemes of taxonomists Hybrid zones provide insights into the nature of the species the way barriers to gene exchange function the genetic basis of those barriers the dynamics of the speciation process Hybrid Zones and the Evolutionary Process synthesizes the extensive research literature in this field and points to new directions in research It will be read with interest by evolutionary biologists geneticists and biogeographers

**Plant Genome Diversity Volume 1** Jonathan Wendel, Johann Greilhuber, Jaroslav Dolezel, Ilia J. Leitch, 2012-03-26 In this timely new 2 volume treatise experts from around the world have banded together to produce a first of its kind synopsis of the exciting and fast moving field of plant evolutionary genomics In Volume I of Plant Genome Diversity an update is provided on what we have learned from plant genome sequencing projects This is followed by more

focused chapters on the various genomic residents of plant genomes including transposable elements centromeres small RNAs and the evolutionary dynamics of genes and non coding sequences Attention is drawn to advances in our understanding of plant mitochondrial and plastid genomes as well as the significance of duplication in genic evolution and the non independent evolution among sequences in plant genomes Finally Volume I provides an introduction to the vibrant new frontier of plant epigenomics describing the current state of our knowledge and the evolutionary implications of the epigenomic landscape *Kew Chromosome Conference IV* P. E. Brandham, Michael David Bennett, 1995 Papers from 36 speakers covering chromosomes populations and conservation chromosomes and economic botany genome organisation cytotaxonomy and evolution chromosome structure and activity and chromosomes in reproduction and development

*Revista Medicina* ,1991 **Buffalo and Goats in Asia** Norman McCall Tulloh, 1991 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1990 **Synaptonemal Complex Analysis of Chromosome Translocations in Pigs and Cattle** Daniel A. F. Villagómez Zavala, 1993 *The Genetic Basis of Male Infertility* Ken McElreavey, 2012-11-03 Every year there are new and exciting developments in assisted human reproduction but how much do we really know about the underlying causes of infertility This volume explores recent progress in the understanding of the genetics of spermatogenesis and male infertility Topics include fundamental advances and current problems in the development and function of the testis an outline of clinical findings in male infertility and an overview of the role of the Y chromosome in male fertility Comprehensive critiques of posttranscriptional control during spermatogenesis mammalian meiotic sterility and comparative genetics of human spermatogenesis from the perspective of yeast *Drosophila* and mice provide a global overview of the field

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