

Sex Determination In Mouse Man

Sex Determination in Mouse and Man - Malcolm Andrew Ferguson-Smith 1988

Sex Determination in Mouse and Man - Anne McLaren 1988

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 or 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.

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 man. 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 approach to citations is the exact opposite of that usually used in scientific papers. Whenever possible, the latest and/or most comprehensive review has been cited, instead of the original publication. Thus the reader is encouraged to delve deeper into any question of interest to him or her. I am greatly indebted to many colleagues for suggestions and criticism. However, my special thanks are due to Dr. JAMES F. CROW, Dr. TRAUTE M. SCHROEDER, and Dr. CARTER DENNISTON for their courage in reading the entire manuscript. I wish to express my gratitude also to the cytogeneticists and editors who have generously permitted the use of published and unpublished photographs.

Cell and Molecular Biology of the Testis - Claude Desjardins 1993

This book is a comprehensive, multi-authored work on the structure and function of the mammalian testis. The approach emphasizes gene expression, translation and production of specific gene products and the cellular and molecular regulation of these fundamental processes. Rather than provide a global survey of all aspects of male reproduction, this book stresses specific mechanisms that underscore the structure and function of the testis. It explains old and new concepts from a cellular and molecular perspective. This novel approach allows the authors to forge links between cell and molecular biology and well-established aspects of spermatogenesis and steroidogenesis. The result is a well-focused, comprehensive, and synthetic analysis of testicular biology.

Sex Chromosomes and Sex Determination in Vertebrates - Alberto J. Solari 1993-10-22

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 veterinarian 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.

Philosophical Transactions of the Royal Society of London - 1988

Genes and Mechanisms in Vertebrate Sex Determination - Gerd Scherer 2013-04-17

Following an opening chapter by the late Susumu Ohno on paralogues of sex-determining genes, the five best-studied genes essential for early mammalian gonadal development are portrayed in detail: SF-1 and WT1 and their roles in early events in gonadal development, SRY and SOX9 in testis determination, and the anti-testis gene DAX-1. Subsequent chapters look at the roles of these genes in sex determination in marsupial mammals, birds, reptiles, amphibians and fish, and review the different sex-determining mechanisms, genetic and environmental, that operate in these different vertebrate classes. Two insights emerge: one, that the same basic set of genes appears to operate during early gonadal development in all vertebrates, despite the differences in mechanisms; the other, that sex determination in vertebrates results from a complex network of regulatory interactions and not from a simple hierarchical cascade of gene actions.

Current Topics in Developmental Biology - 1996-03-14

This Series provides a comprehensive survey of the major topics in the field of developmental biology. The volumes are valuable to researchers

in animal and plant development, as well as to students and professionals who want an introduction to cellular and molecular mechanisms of development. This year marks a major milestone for the Series as it completes its thirtieth year of publication, making it the longest-running forum for contemporary issues in developmental biology.

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.

Cumulated Index Medicus - 1997

Sex Chromosomes - Ursula Mittwoch 2014-06-28

Sex Chromosomes focuses on the study of sex chromosomes, including human chromosomal abnormalities, behavior and characteristics of chromosomes, and cell division. The book first offers information on the chromosomal basis of sex determination, as well as development of the cell theory, mitosis, fertilization, meiosis, and discovery of sex chromosomes. The publication also ponders on the mitosis, meiosis, and formation of gametes. Discussions focus on the special characteristics of sex chromosomes, abnormalities of cell division, and sexual differentiation. The manuscript reviews sex chromosomes in plants, *Drosophila*, and *Lepidoptera*. The book also examines sex-chromosome mechanisms that differ the classic type; sex chromosomes in fishes, amphibia, reptiles, and birds; and sex chromosomes in man. Discussions focus on normal human sex chromosomes, Turner's syndrome, Klinefelter's

syndrome, true hermaphrodites, testicular feminization, and pseudohermaphrodites. Sex chromosomes in mammals other than man, including monotremata, marsupialia, insectivora, rodentia, and carnivora, are discussed. The publication is a dependable reference for readers interested in the study of sex chromosomes.

Molecular Mechanisms of Cell Differentiation in Gonad Development - Rafal P. Piprek 2016-06-14

This book presents the current state of knowledge on the origin and differentiation of cell lines involved in the development of the vertebrate male and female gonads with particular emphasis on the mouse. It also discusses the processes leading to the testis- and ovary-specific structures and functions. The individual chapters review the origin and differentiation of the somatic cells of the genital ridges; the formation and migration of primordial germ cells in mouse and man; the gonadal supporting cell lineage and mammalian sex determination; differentiation of Sertoli and granulosa cells; mesonephric cell migration into the gonads and vascularization; origin and differentiation of androgen-producing cells in the gonads; germ cell commitment to the oogenic versus spermatogenic pathway and the role of retinoic acid; ovarian folliculogenesis; control of oocyte growth and development by intercellular communication within the follicular niche; biology of the Sertoli cell in the fetal, pubertal and adult mammalian testis; mechanisms regulating spermatogonial differentiation; stem cells in mammalian gonads; the role of microRNAs in cell differentiation during gonad development; human sex development and its disorders; as well as methods for the study of gonadal development.

Sex Determination, Differentiation and Intersexuality in Placental Mammals - R. H. F. Hunter 1995-03-09

How do males become male and females become female? And what are the consequences if the decision is not incisive? Drawing upon interests in animal genetics and molecular biology, the author endeavours to answer these difficult yet fascinating questions. Originally published in 1995, this book describes the genetic determination of sex and examines how sexual organs are differentiated. Using examples of

intersexuality, chimaeras and asymmetries, the book describes the underlying molecular basis of sex determination and sexual differentiation, and focuses on the critical role of the rate of embryonic development in these vital processes. Male precocity is a recurrent theme, as is the involvement of Sertoli cells and their secretion of anti-Müllerian hormone. An invaluable book for reproductive physiologists, geneticists and developmental biologists whose interests may extend from animal science through veterinary medicine to human clinical medicine.

Reproductive Immunology - Satish Kumar Gupta 2012-12-06

Reproductive Immunology is a compilation of research articles presented during the VII International Congress of Reproductive Immunology which was held in New Delhi, India on 27-30 October 1998. The articles pertain to the following six major themes: Molecular and Immunological Aspects of Sperm-Egg Interaction Embryonic-Endometrial Cross-Talk Immunobiology of Pregnancy Autoantibodies and Infertility Immunocontraception Mucosal Immunology and Reproductive Tract Infections . The first section deals with our current understanding of various steps involved in fertilization. The functional significance of sperm surface mannosidase and glutathione S-transferases to bind zona pellucida is described. The role of zona pellucida glycoproteins in the binding of sperm, induction of acrosome reactions and avoidance of polyspermy is discussed. In the second section, the role of various cytokines, growth factors and immunomodulatory agents in implantation of embryos is described. In the field of reproductive immunology, one of the major issues is to explore the successful gestation of the histoincompatible fetus in the uterus of an immunologically competent mother. The Proceedings presents the issues of paternal antigens at the feto-maternal interface and shows that Th2-type of immunity is involved in normal successful conception. The role of membrane-bound and soluble HLA-G in protecting the fetus from the lytic activities of maternal uterine and peripheral blood natural killer (NK) cells is also presented. Nature's experiments suggest that antibodies against sperm-specific antigens are responsible for

infertility in some women. The possibility that an immunogenetic background contributes to production of sperm-immobilizing antibodies in infertile women is discussed in the section on autoantibodies and infertility. The Proceedings presents the issue of Th1-type cytokines in inducing recurrent spontaneous abortions of unexplained etiology. The roles of β 2-glycoprotein 1 (β 2-GP1)-dependent anticardiolipin antibody, lupus anticoagulant, antiphospholipids, anti-thyroid antibody and anti-nuclear antibody in miscarriages are also described. The rising global human population, particularly in the developing countries, has driven the need for new and safer methods of contraception. Fertility regulation by vaccines is thus an interesting proposition. The section on contraceptive vaccines discusses the latest advances in this area and describes the current status of vaccines based on β hCG, sperm antigens, zona pellucida glycoproteins, and riboflavin carrier proteins. The issues of mucosal immunity and strategies for enhancing local genital immune responses to combat HIV infection is discussed. The role of inflammatory and related cytokines in chorioamnionitis is described. The contents of this Proceedings describes various facets of reproductive immunology which will help us to design strategies to combat genital infections and miscarriages caused by immunological etiology. Descriptions of the molecular basis of gamete recognition, implantation and survival of the allogenic fetus will help in designing strategies for overcoming infertility and also new contraceptive approaches. The Proceedings will be useful to researchers and clinicians involved in basic or applied research in the disciplines of reproductive biology, reproductive immunology, and obstetrics and gynecology.

Major Sex-Determining Genes - S. Ohno
2013-03-08

Upon wresting the control of the earth from the Titans, Zeus assigned the task of creating living creatures to two Titan brothers who had sided with him in the epic battle just concluded. Because Epimetheus, who had been endowed only with hindsight, had the first hand in this creation, all the good attributes were exhausted by the time the lion, the elephant and other animals were created. When the time came for

the creation of man, there were precious few materials left to work with. Not surprisingly, man was made weak and naked. Prometheus took pity on this miscreation and gave man the use of fire. For this foresight, Zeus meted out horrible punishment, binding Prometheus to a rocky pillar in the Caucasus Mountains and letting a vulture consume his liver daily. It seems to me that the ancient Greeks in their unfathomable wisdom understood the essence of the evolutionary process very well. Had Escherichia coli of 200 million years or so ago been endowed with the foresight to anticipate the eventual emergence of and subsequent dominance by mammals of this Earth, they would no doubt have equipped themselves, in anticipation of the coming certainty, with the lac operon to deal with lactose in the suckling mammalian infant's gut. Had they been able to do so, the actual emergence of mammals would have exerted no selective pressure upon existing E. COLI.

Exploring the Biological Contributions to Human Health - Institute of Medicine 2001-07-02

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical

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Population Sciences - 1979

Mechanism of Sex Determination and Reversal in an XY Mouse Strain - Chung-Hae Lee 2001

"Sry on the Y-chromosome triggers the fetal gonad to begin differentiation into testis in mammals. Mutation or absence of Sry results in development of ovaries and the female phenotype. However, XY sex reversal in the presence of wild-type Sry exists in mice and man. One such example is the B6-YTIR mouse, whose autosomes and X-chromosome are of the C57BL6/J mouse (*Mus musculus molossinus*) whereas the Y-chromosome is from a mouse originating in Tirano, Italy (*Mus musculus domesticus*). B6-YTIR mice develop only ovaries or ovotestes in fetal life. The objective of my thesis was to identify the mechanism of sex reversal in the B6-YTIR mouse. The results indicate that onset of Sry transcription in B6-YTIR gonads is comparable to control B6 XY gonads. On the other hand, onset of Mis, 17alpha-HA, 3beta-HSD (testicular cell products), p450arom as well as inactivation of Sry transcription are delayed or absent in the sex reversed gonads. It has been suggested that low levels of Sry transcription may account for aberrant testis differentiation in B6-YTIR mice. We observed relatively low levels of Sry transcripts not only in B6-YTIR but also in B6 mice. However, levels in normal B6-YSJL mice were significantly greater. On the SJLB6F1 background, where no sex reversal occurs, Sry transcript levels of the TIR allele increased while those of B6 and SJL alleles remained the same as in the B6 background. Thus, low levels of Sry transcript from the B6 allele are sufficient whereas the levels from TIR and SJL alleles (both DOM type) appear to be critical for testis determination. We then compared the levels of endogenous Sry proteins. A combination of immunoprecipitation and immunoblotting succeeded in detecting a protein band whose expression profile and molecular size are

consistent with those of the predicted Sry. Sry protein levels in B6-Y TIR gonads were roughly two fold greater than in B6 XY gonads. We hypothesize that the Sry protein of the TIR/SJL alleles is less efficient" --

Genetics of Sex Determination - R.S. Verma
1996-04-23

The Genetical Theory of Natural Selection by R.A. Fisher (1930) dictated that sexual dimorphisms may depend upon a single medelian factor. This could be true for some species but his suggestion could not take off the ground as gender in *Drosophila* is determined by the number of X chromosomes. Technical advances in molecular biology have revived the initial thinking of Fisher and dictate that TDF or SRY genes in humans or Tdy in mice are sex determining genes. The fortuitous findings of XX males and XY female, which are generally termed sex reversal phenomenon, are quite bewildering traits that have caused much amazement concerning the pairing mechanism(s) of the pseudoautosomal regions of human X and Y chromosomes at meiosis. These findings have opened new avenues to explore further the genetic basis of sex determination at the single gene level. The aim of the fourth volume, titled *Genetics of Sex Determination* is to reflect on the latest advances and future investigative directions, encompassing 10 chapters. Commissioned several distinguished scientists, all pre-eminent authorities in each field to shed their thoughts concisely but epitomise their chapters with an extended bibliography. Obviously, during the past 60 years, the meteoric advances are voluminous and to cover every account of genes, chromosomes, and sex in a single volume format would be a herculean task. Therefore, a few specific topics are chosen, which may be of great interest to scientists and clinicians. The seasoned scientists who love to inquire about the role of genes in sex determination should find the original work of these notable contributors very enlightening. This volume is intended for advanced students who want to keep abreast as well as for those who indulge in the search for genes of sex determination.

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