

Sex Chromosomes Pair In Mammalian Females

Sex Itself - Sarah S. Richardson 2013-12-13

Human genomes are 99.9 percent identical—with one prominent exception. Instead of a matching pair of X chromosomes, men carry a single X, coupled with a tiny chromosome called the Y. Tracking the emergence of a new and distinctive way of thinking about sex represented by the unalterable, simple, and visually compelling binary of the X and Y chromosomes, *Sex Itself* examines the interaction between cultural gender norms and genetic theories of sex from the beginning of the twentieth century to the present, postgenomic age. Using methods from history, philosophy, and gender studies of science, Sarah S. Richardson uncovers how gender has helped to shape the research practices, questions asked, theories and models, and descriptive language used in sex chromosome research. From the earliest theories of chromosomal sex determination, to the mid-century hypothesis of the aggressive XYY supermale, to the debate about Y chromosome degeneration, to the recent claim that male and female genomes are more different than those of humans and chimpanzees, Richardson shows how cultural gender conceptions influence the genetic science of sex. Richardson shows how sexual science of the past continues to resonate, in ways both subtle and explicit, in contemporary research on the genetics of sex and gender. With the completion of the Human Genome Project, genes and chromosomes are moving to the center of the biology of sex. *Sex Itself* offers a compelling argument for the importance of ongoing critical dialogue on how cultural conceptions of gender operate within the science of sex.

[An Atlas of Mammalian Chromosomes](#) - Tao C. Hsu 2013-06-29

Introduction to Epigenetics - Renato Paro 2021-03-23

This open access textbook leads the reader from basic concepts of chromatin structure and function and RNA mechanisms to the understanding of epigenetics, imprinting, regeneration and reprogramming. The textbook treats epigenetic phenomena in animals, as well as plants. Written by four internationally known experts and senior lecturers in this field, it provides a valuable tool for Master- and PhD- students who need to comprehend the principles of epigenetics, or wish to gain a deeper knowledge in this field. After reading this book, the student will: Have an understanding of the basic toolbox of epigenetic regulation Know how genetic and epigenetic information layers are interconnected Be able to explain complex epigenetic phenomena by understanding the structures and principles of the underlying molecular mechanisms Understand how misregulated epigenetic mechanisms can lead to disease

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.

Evolution of Sex Determining Mechanisms - James J. Bull 1983

Sex Chromosomes and Sex-Linked Genes - Susumu Ohno 2013-06-29

Natural selection operates among individual organisms which differ in their genetic constitution. The degree of hereditary variability within a species is greatly enhanced by cross-fertilization. Indeed, the mechanism of sexual reproduction occurred very early in evolution, for it is seen today even in bacteria. In *Escherichia coli*, fertilization occurs by passage of the single chromosome from the male into the female bacterium (LEDERBERG, 1959). In multicellular organisms, the separation of germ

from soma, and the production of haploid gametes became mandatory. The gametes were of two types. One, extremely mobile, was designed to seek out and penetrate the other, which loaded with nutrients, received the mobile gamete and initiated the development of a new individual. The foundation for true bisexuality was thus laid. In the primitive state of bisexuality, whether an individual is to be a sperm-producing male or an egg-producing female appears to be decided rather haphazardly. In the worm, *Banelia viridis*, the minute males are parasites in the female. Larvae that become attached to the proboscis of an adult female become males, while unattached larvae sink to the bottom and become females (BALTZER, 1935). The more sophisticated state of bisexuality was initiated by setting aside a particular pair of chromosomes for specialization and making either the male or the female a heterogametic sex. Sex chromosomes as we know them were thus born.

Heritable Human Genome Editing - The Royal Society 2021-01-16
Heritable human genome editing - making changes to the genetic material of eggs, sperm, or any cells that lead to their development, including the cells of early embryos, and establishing a pregnancy - raises not only scientific and medical considerations but also a host of ethical, moral, and societal issues. Human embryos whose genomes have been edited should not be used to create a pregnancy until it is established that precise genomic changes can be made reliably and without introducing undesired changes - criteria that have not yet been met, says Heritable Human Genome Editing. From an international commission of the U.S. National Academy of Medicine, U.S. National Academy of Sciences, and the U.K.'s Royal Society, the report considers potential benefits, harms, and uncertainties associated with genome editing technologies and defines a translational pathway from rigorous preclinical research to initial clinical uses, should a country decide to permit such uses. The report specifies stringent preclinical and clinical requirements for establishing safety and efficacy, and for undertaking long-term monitoring of outcomes. Extensive national and international dialogue is needed before any country decides whether to permit clinical use of this technology, according to the report, which identifies essential elements of national and international scientific governance and oversight.

[An Atlas of Mammalian Chromosomes](#) - Tao C. Hsu 2013-11-21

Genetics of Sex Differentiation - Ursula Mittwoch 2012-12-02

Genetics of Sex Differentiation intends to help readers understand the genetic basis of sex differentiation. The book focuses on explaining how the sex chromosomes affect the process of sex differentiation by influencing the rates at which cells divide. The book is composed of seven chapters. It provides overviews of classical genetics and structure of cells. It also explains the chromosomal basis of sex determination and sex determination using *Drosophila*. Polygenetics and continuous and quasicontinuous variations are also discussed. The book also discusses sex factors, determination, and disorders. Moreover, it explains the heterochromatin, embryological basis of sex differentiation, and triploidy and autosomal effects. In addition, it discusses the relationship of genes, chromosomes, growth, and sex. The book is an excellent "bedside book" for students in biology, specifically in genetics and developmental biology. Lecturers and professionals in biology and genetics will also find this book invaluable for their practice.

[Sequence of the Chicken Sex Chromosomes](#) - Daniel Winston Bellott 2010

In birds, as in mammals, the chromosome complement determines sex. Male birds are designated ZZ, female ZW. Mammals have the opposite system; males are XY and females XX. Both the avian ZW and mammalian XY pair are believed to have evolved from autosomes, with dramatic changes, both gene loss as well as gene acquisition and amplification occurring on the sex-specific W and Y chromosomes. In contrast, Z and X chromosomes are assumed to have diverged little from their autosomal progenitors. The Z and W sex chromosomes of the chicken provide a unique opportunity to study the evolution of sex chromosomes in a second lineage with an alternate system of heterogamety. We produced the finished sequence of the chicken Z chromosome and generated female-specific markers necessary to produce a complete sequence of the chicken W chromosome. Already our analysis of the Z chromosome

has revealed that the sex chromosomes of birds evolved independently of the sex chromosomes of mammals. Despite this independence, the chicken Z chromosome converged on a suite of features analogous to those of the human X chromosome: low gene density, an enrichment for interspersed repeats, and large multi-copy gene families expressed in the testis. These features arose during the evolution of the Z and X chromosomes as sex chromosomes, overturning the notion that Z and X chromosomes are evolutionarily stable. Our preliminary efforts on the W chromosome have provided insights into its structure and underscore the ubiquity of gene acquisition and amplification on vertebrate sex chromosomes. As we accumulate genomic data from additional sex chromosomes, explaining the evolutionary forces that result in gene acquisition and amplification will remain a major challenge.

[Comparative Mammalian Cytogenetics](#) - Kurt Bernischke 2012-12-06

Ten years ago a symposium on Cytotaxonomy 'was held in London (Proc. Linn. Soc. Lond. 169:110, 1958) in which a first attempt was made to bring together various disciplines to discuss advances of mammalian cytogenetics and to put them into proper context with the sciences of evolution and taxonomy. The introductory remarks by V. B. Turrill to that symposium, essentially an admonishment to be tolerant of the shortcomings of our respective disciplines, would be a most appropriate beginning to this conference as well. However, the meeting held at Hanover was conceived more along the lines of remarks made by R. B. Seymour Se., 'ell in his presidential address to the same society: "It has been said that scientists in this search for truth are nowadays too much concerned with the accumulation of facts, and make too little use of their imagination in their attempts to explain such facts as they have accumulated." (In "The continental drift theory and the distribution of the Copepoda," *ibid.* 166:149, 1956.) With this as a background, two years ago we held the first of a series of loosely-structured conferences on reproductive failure in the relaxing atmosphere of this small New England college community. The manuscripts of that meeting have been published (Comparative Aspects of Reproductive Failure, Springer-Verlag New York Inc., 1967).

Females Are Mosaics - Barbara Migeon 2013-10-15

Women can be described as genetic mosaics because they have two distinctly different types of cells throughout their bodies. Unlike males, who have one X chromosome, females have two X chromosomes in every cell. Much has been written about the Y chromosome and its role in inducing maleness. This is the only book about the X chromosome as a key to female development and the role of X-related factors in the etiology of sex differences in human disease. This new edition reflects research advances from the six years since the widely praised first edition. New advances include knowledge of species differences in mammalian X inactivation processes and silencing of the inactive X chromosome.

[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 researchers, educators, providers, and journalists-while being very accessible to interested lay readers.

[An Atlas of Mammalian Chromosomes](#) - Tao C. Hsu 2013-11-11

In recent years, because of advances in karyological techniques, we have witnessed a remarkable renewal of interest in studies of mammalian chromosomes. These techniques, generally involving the use of tissue culture, colchicine and hypotonic solution pretreatments, allow for a much clearer display of metaphase chromosomes of mammalian cells than the classic direct squash or tissue section methods. Consequently, what was known about the chromosome complement of most mammals

must be revised. The most astonishing revision, of course, was that made by Tjio and Levan in 1956, who demonstrated that the diploid number of man is 46, not 48 as previously believed. Similar revisions will have to be made for many other mammalian species, either in number or in karyotype structure. Many animals are being examined cytologically for the first time. The findings are now extensive and scattered; they appear in numerous periodicals and newsletters, or they are kept in cytologists' file drawers without being published. It is difficult to have access to pertinent data for comparison among related species or for evaluation of various karyological characteristics within a karyotype. Such evaluations can be done only when reasonably uniform material is collected and placed side by side for comparison, accompanied by relative references. We considered that probably an Atlas of Mammalian Chromosomes would fulfill such a need. Needless to say, it is impossible to present karyotypes of all mammalian species at one time.

Molecular Genetics of Sex Determination - Stephen S. Wachtel 2014-07-23

In this era of accelerated discovery and prolific output, Molecular Genetics of Sex Determination keeps readers abreast of this field's fast-moving biology. Its chapters were completed by experts in each area only months before publication. The text is organized into two parts. First, it reviews the basic biology of sex determination and summarizes groundbreaking work in mouse, marsupial, and Drosophila systems. Second, it covers current human genetics, clinical studies, and the syndromes of abnormal sex differentiation. With chapters by preeminent reproductive biologists, this is a capital work. Ohno's law is described by Ohno; the Lyon hypothesis, by Lyon; Sinclair tells how he cloned the testis-determining gene; and so on. Molecular Genetics of Sex Determination is authoritative, comprehensive, and current. It is prime reading for geneticists, developmental biologists, graduate students in these and related fields, clinical researchers, physicians, and medical students. Reviews the genetics of sex determination in 19 up-to-date chapters Features research on sex chromosomes and sex-determining genes Includes abnormalities of sex determination and clinical genetics Written by scientists who pioneered work in this field

[Gigantism and Acromegaly](#) - Constantine A. Stratakis 2021-06-01

Gigantism and Acromegaly brings together pituitary experts, taking readers from bench research, to genetic analysis, clinical analysis, and new therapeutic approaches. This book serves as a reference for growth hormone over-secretion and its diagnosis and treatment for endocrinologists, pediatricians, internists, and neurosurgeons, and for geneticists. Pharmaceutical companies may use it as a reference for drug development and research. Students, residents and fellows in medicine and endocrinology and genetics will also find it valuable as it provides a single up-to-date review of the molecular biology of gigantism and acromegaly as well as recommended approaches to evaluation and management. Acromegaly is a rare pituitary disorder that slowly changes its adult victim's appearance over time: larger hands and feet, bigger jaw, forehead, nose, and lips. Generally, a benign pituitary tumor is the cause and symptoms of acromegaly can vary from patient to patient, making a diagnosis difficult and prolonging suffering for years. Early detection is key in the management of acromegaly as the pathologic effects of increased growth hormone (GH) production are progressive and can be life-threatening as the result of associated cardiovascular, cerebrovascular, and respiratory disorders and malignancies. Accessible, up-to-date overview of the characteristics, state-of-the-art diagnostic procedures, and management of acromegaly and gigantism Provides a unique compendium of endocrinology, genetics, clinical diagnosis and therapeutics Contains contributions from internationally known experts who have treated patients with acromegaly and gigantism

[Molecular Biology of the Cell](#) - Bruce Alberts 2004

The Biology of Reproduction - Giuseppe Fusco 2019-10-10

A look into the phenomena of sex and reproduction in all organisms, taking an innovative, unified and comprehensive approach.

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.

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.

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