

Sex Chromosomes For Males

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.

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 Mendelian 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.

Adam's Curse Bryan Sykes 2010-02-28 Genetically speaking, the only difference between men and women is that where women have two X chromosomes, men have one X and one Y. It is surprising that one chromosome difference out of our total of forty-six can have such an important consequence, but it does. Is this relatively small genetic variance really sufficient to explain the huge differences between the sexes, not just the physical but the psychological, social, even cultural? Drawing on his own work at the forefront of modern genetics and the exciting theories of evolutionary biology, Bryan Sykes explores the mysteries of the science of sex and gender, and takes a scientific look at what makes men tick. He addresses the most basic issues of why there are only two sexes in humans and, even, why there is sex at all. He also raises more far-reaching questions, such as: Is there a genetic cause for men's greed, aggression and promiscuity? Is there such a thing as the male homosexual gene? And what do genes tell us about the future for men? Sykes's conclusions will surprise some people and are bound to cause controversy. The all-important male Y chromosome is getting smaller and, as the generations pass, the female genome is taking over as it cannibalizes parts of the Y chromosome. Women are winning the evolutionary battle of the sexes. The shocking conclusion is that men, slowly but surely, are headed for extinction.

Gendering the Genome Sarah S. Richardson 2009

Sex Determination in Vertebrates 2019-04-16 *Sex Determination*, Volume 134, the latest release in the *Current Topics in Developmental Biology* series, contains current reviews in the field of vertebrate sex determination. It covers molecular pathways of sex determination in genetic and

environmental species and encompasses both sex determination of somatic lineages and commitment of germ cells to male or female fate. Chapters in this new release cover, amongst other topics, Mapping the Sox9 Enhancer Elements, Epigenetic Regulation of Sex Determination, Evolution and Management of Sex Chromosomes, Regulation of Germ Cell Sex Identity in Medaka, Control of Sex Determination in Zebrafish, Sexually Dimorphic Germ Cell Identity in Mammals, and more. Contains reviews written by leading experts in each field Includes informative figures that illustrate principle points that are useful for teaching Written in a style that is clear and simple

Understanding Genetics Genetic Alliance 2009 The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Sex, Size and Gender Roles Daphne J. Fairbairn 2007-07-05 This collection of 20 chapters written by leading evolutionary biologists from around the globe provides a fascinating insight into the patterns and causes of differences between males and females in the natural world.

Temperature-Dependent Sex Determination in Vertebrates Nicole Valenzuela 2004 Edited by the world's foremost authorities on the subject, with essays by leading scholars in the field, this work shows how the sex of reptiles and many fish is determined not by the chromosomes they inherit but by the temperature at which incubation takes place.

The Evolution of Sex Determination Leo W. Beukeboom 2014 temperature) or social variables (e.g.

Sex-linked Inheritance in Drosophila Thomas Hunt Morgan 2022-08-10 The following book was written by Thomas Hunt Morgan and Calvin Bridges, and made the former world-famous. It was in the studies covered in the following publication that Morgan discovered that genes are carried on chromosomes and are the mechanical basis of heredity. These discoveries formed the basis of the modern science of genetics; and he would later win the Nobel Prize in Physiology or Medicine in 1933 for his findings.

Evolution of Sex Determining Mechanisms James J. Bull 1983

The 7 Sexes Elof Axel Carlson 2013 Few of us know much about the biology of sex determination, but what could be more interesting than to discover how we are shaped into males and females? In this book, Elof Carlson tells the incredible story of the difficult quest to understand how the body forms girls and boys. Carlson's history takes us from antiquity to the present day to detail how each component of human reproduction and sexuality was identified and studied, how this knowledge enlarged our understanding of sex determination, and how it was employed to interpret such little understood aspects of human biology as the origin of intersex births.

Sex Determination in Plants CC Ainsworth 2004-08-02 Indispensable for all plant biologists, this is a fascinating and thorough examination of those factors which affect the sex determination of plant species, describing all of the main classes of plant with unisexual flowers hermaphrodite, monoecious and

Vertebrate Sex Chromosomes 2003

Gender-related Differences Katharine Blick Hoyenga 1993 This work provides a description of the roles that sex chromosomes and hormones do - and do not - play in moulding human sex differences in the brain and behaviour. It applies advances in evolutionary theory to all the broad aspects of a given area in psychology - sex differences.

Gender Gap Judith Eve Lipton Let's face it, say Barash and Lipton: Males and females, boys and girls, men and women are different. To be sure, these differences are often heightened by

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distinctions in learning, cultural tradition, and social expectation, but underpinning them all is a fundamental difference that derives from biology. Throughout the natural world, males are those creatures that make sperm; females make eggs. The oft-noticed "gender gap" derives, in turn, from this "gamete gap." In *Gender Gap*, Barash and Lipton (husband and wife, professor and physician, biologist and psychiatrist) explain the evolutionary aspects of male-female differences. After describing the theory underlying the evolutionary explanation of male-female differences-in accessible, lay-person's language-they show how it applies to specific examples of animal behavior. Then, they demonstrate comparable male-female differences in the behavior of human beings cross-culturally, as well as within the United States. Barash and Lipton apply this approach to male-female differences in sexual inclinations, propensities for violence, parenting styles, and childhood experiences. They invoke much work within the traditional social sciences, such as psychology, anthropology, and sociology, which have typically ignored biological factors in the past. Part of the highly successful revolution in scientific thought has been the recognition that evolutionary insights can illuminate behavior, no less than anatomy and physiology. This new discipline, sometimes called "sociobiology" or "evolutionary psychology," promises to help us make sense of ourselves and of our most significant others, shedding new light on what it means to be male or female. Now available in paperback with a new introduction by the authors, this accessible volume integrates work from a variety of fields, applying a new paradigm to research on gender differences. David P. Barash holds a Ph.D. in zoology and is professor of psychology and zoology at the University of Washington, where he has taught since 1973. He has been especially active in the growth and development of sociobiology as a scientific discipline and has received numerous grants and awards. Barash is the author of more than 170 technical articles, and 20 books. Judith Eve Lipton received her M.D. degree from the University of North Carolina, Chapel Hill, and completed her residency in psychiatry at the University of Washington. She is the founder and president emerita of the Washington Physicians for Social Responsibility, and Fellow of the American Psychiatric Association, specializing in women's health.

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.

Insect Cytogenetics Roger L. Blackman 1980

Human Chromosomes Orlando J. Miller 2011-06-28 The fourth edition of this well-known text provides students, researchers and technicians in the area of medicine, genetics and cell biology with a concise, understandable introduction to the structure and behavior of human chromosomes. This new edition continues to cover both basic and up-to-date material on normal and defective chromosomes, yet is particularly strengthened by the complete revision of the material on the molecular genetics of chromosomes and chromosomal defects. The mapping and molecular analysis of chromosomes is one of the most exciting and active areas of modern biomedical research, and this book will be invaluable to scientists, students, technicians and physicians with an interest in the function and dysfunction of chromosomes.

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

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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.

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.

Gender Differences: Their Ontogeny and Significance Christopher Ounsted 1972

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 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.

The Better Half Sharon Moalem 2020-04-07 An award-winning physician and scientist makes the game-changing case that genetic females are stronger than males at every stage of life. 'A powerful

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antidote to the myth of a "weaker sex" Gina Rippon, author of *The Gendered Brain* From birth, genetic females are better at fighting viruses, infections and cancer. They do better at surviving epidemics and famines. They live longer, and even see the world in a wider variety of colours. These are the facts; they are simply stronger than men at every stage of life. Why? And why are we taught the opposite? Drawing on his wide-ranging experience and cutting-edge research as a medic, geneticist and specialist in rare diseases, Dr Sharon Moalem reveals how the answer lies in our genetics: the female's double XX chromosomes offer a powerful survival advantage. And he calls for a long-overdue reconsideration of our one-size-fits-all view of the body and medicine - a view that still frames women through the lens of men. Revolutionary, captivating and utterly persuasive, *The Better Half* will make you see women, men and the survival of our species anew. 'Brilliant, original and groundbreaking, highly readable and genuinely useful' Daily Mail

Genetics of Human Infertility P.H. Vogt 2017-09-12 Infertility affects more than one in ten couples worldwide and is related to highly heterogeneous pathologies sometimes only discernible in the germ line. Its complex etiology often, but not always, includes genetic factors besides anatomical defects, immunological interference, and environmental aspects. Nearly 30% of infertility cases are probably caused only by genetic defects. Thereby experimental animal knockout models convincingly show that infertility can be caused by single or multiple gene defects. Translating those basic research findings into clinical studies is challenging, leaving genetic causes for the vast majority of infertility patients unexplained. Nevertheless, a large number of candidate genes have been revealed by sophisticated molecular methods. This book provides a comprehensive overview on the subject of infertility written by the leading authorities in this field. It covers topics including basic biological, cytological, and molecular studies, as well as common and uncommon syndromes. It is a must-read for human geneticists, endocrinologists, epidemiologists, zoologists, and counsellors in human genetics, infertility, and assisted reproduction.

[Evolutionary Studies of Sex Chromosome Linked Genes and Male-biased Mutation in Birds](#) Anna-Karin Fridolfsson 1999

A Sex Chromosome Survey of Hyperactive Children William Paul Karduck 1969 The documented sex chromosome include aneuploidy of both the X and Y sex chromosomes. Males with additional X chromosomes are chromatin positive and can be detected by the nuclear chromatin analysis. An additional Y chromosome in males can be detected only by karyotype analysis. Cytological studies have shown that in comparison to the general population, there is an increased incidence of X and Y chromosome aneuploidy among mental defectives and criminals. Since incarcerated individuals and hyperactive children have in common certain aggressive and antisocial behavioral traits, this study set out to determine whether a sex chromosome aneuploidy existed in these children. The present study screened hyperactive children, patients from St. Louis Children's Hospital, for sex chromosome aneuploidy. Two cytological approaches were employed. In one, cells from the buccal mucosa were assayed for X chromosome aneuploidy using sex chromatin as the index. Analyses were done on 96 hyperactive children: 14 females and 82 males. No abnormalities were detected. The second cytological approach involved chromosome analyses of cells from peripheral blood. Chromosomes were analyzed on 23 hyperactive children: 3 females and 20 males. Microscopic and karyotypic analyses revealed normal chromosome constitution for both the females and males. In addition, the buccal mucosal cells of 20 of these children were assayed for sex chromatin and confirmed the karyotype results.

The Y Chromosome and Male Germ Cell Biology in Health and Diseases Yun-Fai Lau 2007
The roles of mouse Y chromosome genes in spermatogenesis -- Male meiotic sex chromosome inactivation and meiotic silencing -- Insights into SRY action from sex reversal mutations -- The TSPY gene family -- Structure and function of AZFa locus in human spermatogenesis -- RBMY and DAZ in spermatogenesis -- Neurotrophic factors in the development of the postnatal male germ line -- Dickkopf-like 1-a protein unique to mammals that is associated both with formation of trophoblast stem cells and with spermatogenesis -- Antisense transcription in developing male germ cells -- The spermatogonial stem cell model -- Transplantation of germ cells and testis tissue -- Orthodox and

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unorthodox ways to initiate fertilization and development in mammals -- Pathogenesis of testicular germ cell tumors -- Origin of testicular germ cell neoplasia: the role of sex chromosomes.

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 ground-breaking 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

Females Are Mosaics Barbara Migeon 2007-03-15 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 (inherited from their mother), females have two X chromosomes in every cell (one from each parent). The fathers copy works in some cells, while the mothers copy works in others. These two X chromosomes often function differently, especially if one carries a defective gene. Much has been written about the Y chromosome and its role in inducing maleness. This will be the first 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. Barbara Migeon, from the renowned McKusick-Nathan Institute at Johns Hopkins, is a major figure in clinical genetics and is eminently qualified to write this book, and she writes clearly and effectively. She describes both the underlying molecular mechanisms and the remarkable genetic consequences of X inactivation and its role in determining the biological concepts characteristic of women. *Females are Mosaics* will be valuable to geneticists, biologists, and all health professionals interested in women's health.

The X in Sex David. BAINBRIDGE 2009-06-30 A tiny scrap of genetic information determines our sex; it also consigns many of us to a life of disease, directs or disrupts the everyday working of our bodies, and forces women to live as genetic chimeras. The culprit--so necessary and yet the source of such upheaval--is the X chromosome, and this is its story. An enlightening and entertaining tour of the cultural and natural history of this intriguing member of the genome, *The X in Sex* traces the journey toward our current understanding of the nature of X. From its chance discovery in the nineteenth century to the promise and implications of ongoing research, David Bainbridge shows how the X evolved and where it and its counterpart Y are going, how it helps assign developing human babies their sex--and maybe even their sexuality--and how it affects our lives in infinitely complex and subtle ways. X offers cures for disease, challenges our cultural, ethical, and scientific assumptions about maleness and femaleness, and has even reshaped our views of human evolution and human nature. Table of Contents: Prologue 1. Making a Difference Interlude: What Is It, Exactly? 2. The Duke of Kent's Testicles Interlude: How Sexy Is X? 3. The Double Life of Women Epilogue: The Chosen One Further Reading Glossary Index Reviews of this book: The author of *Making Babies* takes a lively, witty tour of the X chromosome, creator of "a delicious symmetry between men and women"...Entertaining and informative...A fine demonstration of science made accessible. --Kirkus Reviews Reviews of this book: A well-written, well-researched, easy-to-read study that explains what has been learned about the X and Y chromosomes using DNA sequencing and other molecular biology techniques. British biologist Bainbridge...has pulled together historical and current scientific research about how the X and Y chromosomes affect us and what the genes on these chromosomes actually do, like causing sex-linked diseases and color blindness...An excellent example of good science writing...Recommended. --Margaret Henderson, *Library Journal* Reviews of

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this book: Bainbridge is an essentialist, interested in understanding what aspects of gender are biologically driven, and why...He has a central question he wants to answer. The question is not so much why men and women are different (a worn topic that's the subject of too many Mars-and-Venus bestsellers) but, far more specific and far more interesting: Why are men and women more different than they need to be? --Liza Mundy, Washington Post

Reviews of this book: Bainbridge summarizes our knowledge of the genetic information that determines one's sex by recounting the ancients' speculations about the genesis of gender, following with modern biologists' discovery of the X and Y chromosomes about a century ago, and of the sex-determining gene Sry in the 1990s. In a discussion rich with history, evolution, and philosophy, Bainbridge points out the dramatic effect that gender selection has on people's lives...A fascinating, often humorous analysis of the science of sexuality. --Gilbert Taylor, Booklist

Reviews of this book: In *The X in Sex*, David Bainbridge explains the far-reaching effects of X. Bainbridge...moves with ease between straightforward accounts of biology and historical stories about its effect, like the chapter describing the progression of hemophilia through the royal houses of Europe. Bainbridge discusses cultural history as well as natural history, and his wit enlivens every page. --Christine Kenneally, New York Times Book Review

Reviews of this book: There are many literary stars (such as Stephen Jay Gould, Richard Dawkins and Matt Ridley) in the firmament of writers on evolution, and to a man they write with dash and persuasive logic. David Bainbridge is one such and in his latest book he takes the reader through the glories of the X chromosome at a cracking pace. --Miriam Stoppard, Times Higher Education Supplement (UK)

Reviews of this book: The truth is that the behaviours of [chromosomes] X and Y are inextricably linked. Bainbridge explores this link in a compelling tale that takes in how the sex chromosomes became sex chromosomes, and the very different consequences of this for women and men. Along the way we encounter the Duke of Kent's testicles, calico cats and non-identical identical twin girls. His story weaves science, history and the history of science (with a little religion for good measure) in a straightforward, anecdotal fashion that will appeal to scientists and non-scientists alike. --Mark T. Ross, New Scientist (UK)

Reviews of this book: In his structure/function analysis of the X chromosome, Bainbridge provides a tongue-in-cheek, yet informative, description of one of the two human sex chromosomes. --R. Adler, Choice

Reviews of this book: If you have ever been intrigued by some of the puzzles of genetics--why boys tend to get haemophilia or colour blindness while girls are more likely to have an identical twin or to develop rheumatoid arthritis later in life--then *The X in Sex* is for you. --Chris Tyler-Smith, Times Literary Supplement

David Bainbridge takes us on a fascinating tour of X chromosomes and explains what the possession of these intricately folded, infinitesimally narrow, two-inch long strings of genetic codes weighing almost nothing, means for their bearers--that is for each one of us, male and female. History and personal anecdotes are woven together with up-to-date summaries of the science, punctuated with Bainbridge's zany--and very British--humor, so that this information-packed book is pure pleasure to read. --Sarah Blaffer Hrdy author of *Mother Nature: A History of Mothers, Infants, and Natural Selection*

The X in Sex is absolutely fascinating, so intriguing, in fact, that I found myself unwilling to put it down. David Bainbridge surveys an astonishing amount of new information from recent genomic studies of the X chromosome, clearly explaining the findings in a way the average person can easily follow. The science is presented via amusing and highly appropriate metaphors and clever turns of phrase, all of which serve to brighten the prose and present the reader with catchy ways to think about complex ideas. This is an informative, authoritative, and thoroughly enjoyable read: one of the best books I have read in recent years. --Jane Lancaster, University of New Mexico

This is wonderful stuff--beautifully written, clear, jargon-free, with anecdotes sure to hold the attention. --other hupauthor

Tim Birkhead, author of *Promiscuity: An Evolutionary History of Sperm Competition*

Challenging Popular Myths of Sex, Gender and Biology Malin Ah-King 2013-11-27

This edited volume challenges popular notions of sex, gender and biology and features international, trans-disciplinary research. The book begins with an exploration of supposedly 'natural' sexual differences, then looks at research in evolutionary biology and examines topics such as gender stereotypes in humans. The first chapters explore important questions: What are the fundamental

sex differences? How do genes and hormones influence an individual's sex? Subsequent chapters concern topics including: sex stereotypes in the field of sexual conflict, how the focus on genes in evolutionary biology disregards other means of inheritance, and the development of Darwin's theory of sex differences. The last three chapters look at humans, discussing: an interdisciplinary approach to the evolution of sex differences in body height, biological versus social constructive perspectives on the gendering of voices and nature-culture arguments in the current political debate on paternity leave in Norway.

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

The Genetics of Cancer B.A. Ponder 2012-12-06 It has been recognized for almost 200 years that certain families seem to inherit cancer. It is only in the past decade, however, that molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via genetic linkage and positional cloning. Several of the genes discovered have subsequently been proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in *The Genetics of Cancer* illustrate what has already been achieved and take a critical look at the future directions of this research and its potential clinical applications.

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.

Sex Differences: A Land of Confusion Zachary Elliott 2017-11-19 It's the 21st century, and we are still being told that there are no differences between men and women, and that any differences we

think exist are simply the result of social constructs--to claim otherwise is considered sexist and misogynistic. Sociologists point to disparities in the workforce, claiming these inequalities are the result of a patriarchal society. Yet what if these disparities could be explained through men and women's own choices and inclinations? What if, instead of simply resulting from the patriarchy, sexism, or societal-imposed gender roles, these differences can be explained through a multitude of factors--a mix of complex and interconnected variables? A look at the current scientific literature on sex differences and their origins, this paper reviews data from the fields of biology, psychology, evolutionary behavioral science, neuroendocrinology, and neurology, showing the complicated and nuanced nature of average sex differences between males and females.

Sex Determination Guido Bacci 1965

Sex Chromosomes Cynthia N. Weingarten 2009 Sex chromosomes determine the sex of an organism. A human somatic cell has two sex chromosomes: XY in male and XX in female. A human germ cell has one sex chromosome: X or Y in a sperm and X in an egg. When an X-sperm is combined with an egg, the resulting zygote (fertilised egg) will contain two X chromosomes. A person developed from the XX-zygote will have the characteristics of a female. Combination of a Y-sperm and an egg will produce a male. Usually, a woman has two X chromosomes (XX) and a man one X and one Y (XY). However, both male and female characteristics can sometimes be found in one individual, and it is possible to have XY women and XX men. Analysis of such individuals has revealed some of the molecules involved in sex determination, including one called SRY, which is important for testis formation. SRY (which stands for sex-determining region Y gene) is found on the Y chromosome. In the cell, it binds to other DNA and in doing so distorts it dramatically out of shape. This alters the properties of the DNA and likely alters the expression of a number of genes, leading to testis formation. Most XX men who lack a Y chromosome do still have a copy of the SRY gene on one of their X chromosomes (moved there by chromosomal translocation). This copy accounts for their maleness. However, because the remainder of the Y chromosome is missing they frequently do not develop secondary sexual characteristics in the usual way. This book presents the latest research in the field from around the world.

Sex Determination in Fish T. J. Pandian 2011-09-02 This book is the first to report that research in allogenis/xenogenics has conclusively shown that fishes have retained bisexual potency even after sexual maturity and spermiation. The XY genotype found in the unexpected female phenotypes sired by supermales (Y1Y2) and androgenic males (Y2Y2) points out the need to employ sex specific molecular ma

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