

Sex Chromosomes Present

Studies in Spermatogenesis Part II Nettie Maria Stevens

2020-08-12 Reproduction of the original: *Studies in Spermatogenesis Part II* by Nettie Maria Stevens

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 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

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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

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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 hupauthorTim Birkhead, author of Promiscuity: An Evolutionary History of Sperm Competition

Molecular Biology of the Cell Bruce Alberts 2004

Sex Chromosomes—Advances in Research and Application: 2013 Edition 2013-06-21 Sex Chromosomes—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Y Chromosome in a concise format. The editors have built Sex Chromosomes—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Y Chromosome in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Sex Chromosomes—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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

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evolutionary theory to all the broad aspects of a given area in psychology - sex differences.

Sex Chromosomes Franz Schrader 1928

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 Chromosome Evolution of Papaya Jennifer Han (Ph. D.)

2014 Sex chromosomes are found throughout many diverse lineages across the animal and plant kingdom. Most of the sex chromosomes that have been studied are well established and have already experienced many evolutionary forces, making it

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difficult to reconstruct the dynamic changes involved in the evolution of sex chromosomes. Sex chromosomes are evolved from a pair of autosomes with closely linked sex determining genes that have stopped recombining. Papaya has many qualities that make it attractive for studying sex chromosome genetics. It is trioecious (male, female, and hermaphrodite) with sex determined by a pair of nascent sex chromosomes approximately 7 million years old. The genome is relatively small (442.5 Mb) and the sex determining region of the sex chromosomes is small and well characterized; the hermaphrodite and male specific region of the Yh and Y chromosome respectively is 8.1 Mb and the corresponding X is 3.5 Mb. These sex specific regions of the X and Y chromosomes not only contain the genes that control sex type, but they also have genes associated with the different sexes. While the vegetative forms of the three sexes are phenotypically identical, the reproductive structures are unique. In stark contrast to female and hermaphrodite flowers on male plants are borne on long pendulous peduncles (60-90 cm) at the leaf axis. Female and hermaphrodite flowers are borne on short peduncles (0-4 cm). Gynodioecious varieties SunUp, SunUp Diminutive mutant and dioecious AU9 were used to test the response of papaya to gibberellic acid (GA3). Gibberellic acid is a hormone known to cause elongation of stems throughout the plant kingdom. It is also known as a masculinizing hormone. Exogenous applications of GA3 on female and hermaphrodite papaya did not yield any sex reversals but there was a significant increase in peduncle length and inflorescence branch number in all treated plants. There was an increase in plant height for all treated plants except SunUp Diminutive mutant, suggesting that the mechanism causing the dwarf phenotype is independent of gibberellins. Gibberellin metabolism genes were identified in the papaya genome, none of which mapped to the sex-determining region of either the male- or hermaphrodite-specific region of papaya Y or Yh chromosome. We hypothesize that a trans-acting regulatory

element that enhances gibberellin biosynthesis plays a role in the extreme length of the male papaya peduncle Sex chromosomes experience several evolutionary forces. To further study the structure of the sex chromosomes, a mapping population was created to generate a high density genetic map. A female AU9 was crossed with a hermaphrodite SunUp, the resulting offspring was backcrossed to the hermaphrodite SunUp. Fifty-one individuals derived from this cross were used to create restriction-site associated DNA sequencing (RAD-seq) libraries. A total of 228 RAD-seq markers were mapped to 9 major and 2 minor linkage groups. Previous studies have shown that the Y chromosome experiences severe recombination suppression along the sex determining region. The resulting map from this study showed that the X chromosome is not experiencing recombination suppression. Additionally, possible centromere locations were identified for the other chromosomes. Sex chromosomes also undergo degeneration of genetic material. The effective population size of the sex chromosomes is reduced compared to the autosome. The lack of recombination, especially for the Y chromosome also increases the rate of degeneration. RNA seq data was generated using flower and leaf tissue from females, males, and hermaphrodite individuals to determine the rate at which the Y chromosome is experiencing degeneration. Expression levels were compared between the X and Y linked alleles in males and hermaphrodites. If there is no Y degeneration, then the expression levels between the sex linked alleles should be equal. Expression of male leaf tissue had significantly less expression of the Y allele compared to the X allele. This was not found in hermaphrodites and in all flower tissue. Dosage compensation is a phenomenon utilized by many organisms with sex chromosomes to account for the heterogametic sex having only one allele for many of the genes on the sex chromosome. While many organisms compensate expression levels in the heterogametic sex, this is not true of all

animals. Very few studies have been conducted to determine if plants undergo the same evolutionary forces as animals and also evolve dosage compensation. There was no detectable dosage compensation in the primitive papaya sex chromosome.

Hormonal and Genetic Basis of Sexual Differentiation Disorders and Hot Topics in Endocrinology: Proceedings of the 2nd World Conference Maria I. New 2011-06-21

Proceedings of the 2nd World Conference - Hormonal and Genetic Basis of Sexual Differentiation Disorders and Hot Topics in Endocrinology. The meeting took place at The Eden Roc Hotel in Miami Beach, Florida, 1/15/10 - 1/17-10. Endocrinology and more specifically, the area of sexual differentiation disorders is an evolving field of medicine. The diagnosis and treatment of Disorders of Sex Development (DSD) is multi-faceted.

The Mechanism and Physiology of Sex Determination

Richard Goldschmidt 1923

The Theory of the Gene Thomas Hunt Morgan 1926

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.

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

The Chromosome Disorders Gordon Howard Valentine 1975

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 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.

Fragile Sites on Human Chromosomes Grant R. Sutherland

1985 Fragile sites--points where chromosomes are apt to break--

came to prominence in the late 1970s and are now the subject of

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much clinical concern and laboratory investigation. They are known or suspected agents in the genesis of mental retardation, birth defects, and cancer. This book, the first to deal with fragile sites on human chromosomes, takes a broad interdisciplinary approach to the subject, incorporating findings from cytogenetics, medical and clinical genetics, population genetics, mental retardation, dysmorphology, and oncology. The book has three interrelated sections. The first, focusing on the laboratory, presents what is known about fragile sites, their cytogenetics, and the conditions of cell culture needed to demonstrate them. A clinical section follows, covering X-linked forms of mental retardation, the clinical features associated with the fragile X, and genetic counseling with fragile sites. The final section considers fragile sites as they relate to genetics, including the possible relationship of fragile sites to cancer and to constitutional chromosome abnormalities. This book contains much previously unpublished material and will be an important resource for geneticists and cytogeneticists, molecular and cancer biologists, oncologists, pediatricians, and other health professionals.

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

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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.

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.

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

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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.

Gender Differences: Their Ontogeny and Significance

Christopher Ounsted 1972

Sex Chromosome Evolution of Papaya: Dynamic Structural and Expression Changes and Identification of Associated Traits 2014

Sex Chromosomes Mario D'Aquino 2013 In this book, the authors present new research in the study of sex chromosomes. Topics discussed in this compilation include the evolution of mammalian X chromosomes and X chromosome inactivation; the role of sex chromosomes in mammalian female fertility; the fate of the Y chromosome; the role of Y chromosome genes on tumour development risk in disgenetic gonads; deletion of amelogenin Y-locus; non-invasive prenatal diagnosis for foetal sex determination; and application of X chromosomal STR polymorphisms to individual identification.

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 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

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

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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.

Prospective Studies on Children with Sex Chromosome Aneuploidy Shirley G. Ratcliffe 1986 Overview of behavioral development in individuals with neonatally identified X and Y aneup.

Cytotaxonomy and Vertebrate Evolution Ernesto Capanna 1973 A biography of the Irish dramatist emphasizing the important themes of his works in a discussion of nine of his major plays.

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

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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.

Chromosomes Today A.T. Sumner 2012-12-06 When the late Professor C. D. Darlington founded what developed into the International Chromosome Conferences in Oxford in 1964, he was concerned that scientists who worked on different aspects of chromosomes, or who studied them in different ways, should have the opportunity of "discussing the fundamental problems of chromosomes with one another". The fact that well over 300 scientists with a wide variety of interests came to Edinburgh in August 1992 for the 11th International Chromosome Conference shows that there is still the same need, and also the desire among chromosomologists to have such discussions. The present volume contains almost all the invited contributions, and attests to the diversity of approaches and applications in chromosomal studies. A few years ago it may have seemed to some that chromosome studies were being superseded by molecular biology, but the molecular biologists have now realized that they need to know about chromosomes, and indeed an important, if ill-defined discipline of 'molecular cytogenetics' has grown up in recent years. We are pleased that in planning the Conference and this

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book, so much of the work presented is at the interface between cytogenetics and molecular biology. This will surely continue in the future, as boundaries between disciplines are largely artificial, and each has much to learn from the others.

Chromosomes, Sex-cells, and Evolution in a Mammal Phillip V. Tobias 1956

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 2012-12-06 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

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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.

Translocations in Sciara Helen V. Crouse 1943

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,

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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 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.

Evolution, Composition and Regulation of Supernumerary B Chromosomes Andreas Houben 2019-04-25 Supernumerary B chromosomes (Bs) are dispensable genetic elements found in thousands of species of plants and animals, and some fungi. Since their discovery more than a century ago, they have been a source of puzzlement, as they only occur in some members of a population and are absent from others. When they do occur, they are often harmful, and in the absence of "selfishness", based on mechanisms of mitotic and meiotic drive, there appears to be no obvious reason for their existence. Cytogeneticists have long wrestled with questions about the biological existence of these enigmatic elements, including their lack of any adaptive properties, apparent absence of functional genes, their origin, sequence organization, and co-evolution as nuclear parasites. Emerging new technologies are now enabling researchers to step

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up a gear, to look enthusiastically beyond the previous limits of the horizon, and to uncover the secrets of these “silent” chromosomes. This book provides a comprehensive guide to theoretical advancements in the field of B chromosome research in both animal and plant systems.

Sex Determination Guido Bacci 1965

Animal Cytology and Evolution M. J. D. White 1973-06-28

Chromosomes as supermolecular systems; The mitotic mechanism in evolution Endomitosis and endopolyploidy; Giant chromosomes the polytene type; Giant chromosomes the lampbrush type; The mechanism of meiosis; Chromosomes rearrangements occurrence and mechanisms; Chromosomal polymorphism in natural populations; Supernumerary chromosomes; Chromosomal rearrangements and speciation evolution of the meiotic mechanism. The evolution of aberrant genetic systems; The cytology of interspecific hybrid; The evolution of sex determination; Haplodiploidy; Thelytoky.

The Y Chromosome: Clinical aspects of Y chromosome abnormalities 1985

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

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