

Sex Chromosomes Humans

A Mutation Turned Ants Into Parasites in One Generation - Quanta Magazine

Fragile, unfaithful and persistent Ys—on how meiosis can shape sex ... - Nature.com

Genetic strategies for sex-biased persistence of gut microbes across ... - Nature.com

Not everyone is male or female - the growing controversy over sex designation - Yahoo Lifestyle Australia

College allegedly fired biology professor for teaching sex was determined by chromosomes X and Y - Fox News

Scientists Created Male and Female Cells from a Single Person - Scientific American

More on the “binarity” of biological sex - Why Evolution Is True - Why Evolution Is True

UC Santa Cruz scientists contribute to release of first complete sequence of a human Y chromosome - Lookout Santa Cruz

» Center for Sex-based Differences in the Immune System - La Jolla Institute for Immunology

Turner syndrome - UF Health

Why do super-agers skew female? These researchers are drilling ... - University of Alabama at Birmingham

Chromosome fusions repatterned recombination rate and facilitated ... - Nature.com

Unraveling the secrets of the human Y chromosome - WBUR News

The Y Chromosome Is Going To Disappear, Scientists Say - Newsweek

The mice with two dads: scientists create eggs from male cells - Nature.com

SG Reviews: Unfair Play: The Battle for Women's Sport by Sharron ... - Sports Gazette

The Y-chromosome and its impact on digestive diseases - Medical Xpress

Scientists Highlight Biological-Sex Obstacles Impeding Medical ... - UVA Health Newsroom

Pheromones: Attraction, Types, Women vs. Men - Verywell Health

Temperature-dependent sex determination in alligators linked to ... - UGA research

Scientists Deliver Mice Offspring From Two Dads - DISCOVER Magazine

Male sex chromosome, missing piece in human genome, finally ... - The Hub at Johns Hopkins

The Complete Human Y Chromosome Marks an Opportunity to ... - Scientific American

Female sex determining gene identified in mice - Science Daily

The Theory That Men Evolved to Hunt and Women Evolved to ... - Scientific American

Markey study provides valuable insights into drivers of cancer risk - UKNow

Unusual sex chromosomes of platypus, emu and pekin duck - Science Daily

Are There More Than Two Sexes? - City Journal

Researchers probe the impact of sex and gender on human health - VUMC Reporter

The molecular evolution of spermatogenesis across mammals - Nature.com

Genome-wide identification and comparative analysis of Dmrt genes ... - Nature.com

Robertsonian fusion triggers recombination suppression on sex ... - Nature.com

What Evolutionary Biology Can and Can't Tell Us About Sex, Gender ... - The MIT Press

Reader

Struggle between sex chromosomes underlies evolutionary paradox - Fred Hutchinson

Cancer Center

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Y chromosome sequence and epigenomic reconstruction across ... - Nature.com

Y chromosome affects cancer growth - National Institutes of Health (.gov)

A draft human pangenome reference - Nature.com

The Y Chromosome Is Disappearing - So What Will Happen To Men? - IFLScience

Dosage of the pseudoautosomal gene SLC25A6 is implicated in ... - Nature.com

Aneuploidy effects on human gene expression across three cell ... - pnas.org

Every base everywhere all at once: pangenomics comes of age - Nature.com

Male Mosquitos Only Have One X Chromosome - Technology Networks

Here's why human sex is binary - The Post - UnHerd

Legal Group Claims Biology Prof Was Fired for Saying Sex Is 'Determined by Chromosomes X and Y' - ChristianHeadlines.com

Sex-linked gene traffic underlies the acquisition of sexually ... - pnas.org

Tests for associations between sexual dimorphism and patterns of ... - Nature.com

So What Is Gender Anyway? - Liberal Currents

She Can See the World in Colors He Can't Even Imagine - The New York Times

Scientists Unveil the First Complete Sequence of the Y Chromosome - Singularity Hub

Ask Ethan: What is a woman? - Big Think

Understanding the Sex Binary - City Journal

Florida's 'Don't Say Gay' rules could bleed into the workplace - Fast Company

Explained | The remarkable endurance of the Y chromosome, 'master of maleness' - The Hindu

The sex-specific factor SOA controls dosage compensation in ... - Nature.com

Pioneering Genetics Research: Male Sex Chromosome Finally ... - SciTechDaily

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[Baby Leopard Gecko: 10 Pictures and 10 Amazing Facts - AZ Animals](#)

[Is "Orange Cat Behavior" Actually A Thing? - IFLScience](#)

Loss of Y Chromosome in Men and Bladder Cancer Progression - The ASCO Post

[How to manage without a Y chromosome | Proceedings of the ... - pnas.org](#)

Are male calico cats akin to unicorns? Oakland reader wants the real story - The Mercury News

Recombination between heterologous human acrocentric ... - Nature.com

To Understand Sex, We Need to Ask the Right Questions - Scientific American

[Tiny worms are helping scientists better understand fertility - Phys.org](#)

Is a Person's Sex a Social Construct? - Psychology Today

[Maybe women were actually the hunters, not the gatherers | Columns - Tampa Bay Times](#)

Scientists find the last remnants of the human genome that were missing in the Y chromosome - Medical Xpress

[Why States Must Define Sex Precisely - Heritage.org](#)

[Meet the American who unlocked the science of gender, Nettie Stevens, female research pioneer - Fox News](#)

[The Extra X: How the Sex Chromosome Affects Autoimmunity Risk - The Scientist](#)

[Comparative studies of X chromosomes in Cervidae family ... - Nature.com](#)

[Men Dying Earlier Than Women May Be Due to Chromosomes - Healthnews.com](#)

[In vivo versus in silico assessment of potentially pathogenic ... - pnas.org](#)

[Nightcrawler's New Origin Reveals a Heartbreaking Secret About ... - Screen Rant](#)

A novel quantitative targeted analysis of X-chromosome inactivation ... - Nature.com

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Calico cat helps us better understand human genetics - Ynetnews

Epigenetics and evolution: 'the significant biological puzzle' of sexual orientation - The Guardian

Opinion | We Aren't Failing Trans Kids by Giving Them the Freedom ... - The New York Times

IU researcher receives grant for research into sex chromosome fusion - Indiana Daily Student

Men are losing their Y chromosome, but a new sex gene discovery brings hope - The Hindu

Gene Dosage Mechanism Exposes Therapeutic Override to ... - Genetic Engineering & Biotechnology

News

Reconstruction of the personal information from human genome ... - Nature.com

Scientists produce baby mice from two male parents - Nature.com

4 Actions That Will Make You A Better Leader - Forbes

Mutation rates and fitness consequences of mosaic chromosomal ... - Nature.com

You shed DNA everywhere you go - trace samples in the water ... - Jacksonville Journal-

Courier

Next Big Thing: Epigenetics, but first, let's hear the opera: "Origins of ... - Cosmos

Is Sex Assigned at Birth? - Breakpoint - BreakPoint.org

Meiotic DNA breaks drive multifaceted mutagenesis in the human ... - Science

Duplicated Genomes Helped Carnivorous Plant Acquire Its ... - Technology Networks

The 15 best Steve Carell movies and TV shows, ranked - Entertainment Weekly News

Understanding Sex, Gender, and Sexual Preference - Psychology Today

Why hybrid animals are sterile — Harvard Gazette - Harvard Gazette

Rumble in the Genome: Unlocking the Secrets of the Tiny RNAs ... - On Cancer - Memorial Sloan

Kettering

Sex chromosomes to oratorio: Scientist says it's time to stop singing about Adam and Eve - The Age

Valuable insights into drivers of cancer risk - Science Daily

Ancient Skeletal Remains: Sex, Gender, And Archaeology - Science Friday

#MrFAFO Is Real - Tablet Magazine

Y chromosome-linked variation affects locomotor activity in male ... - Nature.com

Genetic Disorders of Human Sexual Development - Leonard Pinsky 1999

There have been many advances in understanding mammalian sex determination and differentiation during the last decade. Using these advances to elucidate clinical conditions of abnormal sexual development, the authors of this book bring together expertise in molecular endocrinology, molecular genetics, and dysmorphology. This is not a conventional textbook. It is seldom dogmatic, frequently presents alternatives, highlights speculation, raises questions, and attempts to provide answers. This book will be welcomed by medical geneticists, genetic counselors, endocrinologists,

gynecologists, urologists, and students who need fully-referenced information about the genetic aspects of human sexual maldevelopment in order to better manage their patients and their patients' families.

[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

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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.

Vertebrate Sex Chromosomes - Nobuo Takagi
2003

During the last two decades of the 20th century, the study of chromosomes was enormously stimulated by the availability of various biological resources, valuable databases and new genetic and molecular biological techniques

including PCR and fluorescent in situ hybridization. The simultaneous development of new and effective systems for targeting genes and gene transfer led to astonishing advances also in the study of vertebrate sex chromosomes. We now have considerable insight into their evolution, the dosage compensation mechanisms in mammals that involve chromosome-wide chromatin remodeling triggered by noncoding Xist RNA, and the unique properties of the human X chromosome which comprises many genes important for sex determination and reproduction. This thematic issue of Cytogenetic and Genome Research presents an excellent and highly authoritative compilation of current research findings related to vertebrate sex chromosomes. The contributions - all prepared by experts in the field - reflect both the technical advances and the enormous gain in knowledge achieved in recent years. Many of these papers also provide important historical perspectives while some contain insightful personal views of

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the authors. This special volume therefore represents a stimulating and critical state-of-the-art source of information for investigators and students in this fascinating field.

Gendering the Genome - Sarah S. Richardson
2009

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.

Human Chromosomes - Eeva Therman

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2012-12-06

This book provides an introduction to human cytogenetics. It is also suitable for use as a text in a general cytogenetics course, since the basic features of chromosome structure and behavior are shared by all eukaryotes. Because my own background includes plant and animal cytogenetics, many of the examples are taken from organisms other than man. Since the book is written from a cytogeneticist's point of view, human syndromes are described only as illustrations of the effects of abnormal chromosome constitutions on the phenotype. The selection of the phenomena to be discussed and of the photographs to illustrate them is, in many cases, subjective and arbitrary and is naturally influenced by my interests and the work done in our laboratory. The approach to citations is the exact opposite of that usually used in scientific papers. Whenever possible, the latest and/or most comprehensive review has been cited, instead of the original publication.

Thus the reader is encouraged to delve deeper into any question of interest to him or her. I am greatly indebted to many colleagues for suggestions and criticism. However, my special thanks are due to Dr. JAMES F. CROW, Dr. TRAUTE M. SCHROEDER, and Dr. CARTER DENNISTON for their courage in reading the entire manuscript. I wish to express my gratitude also to the cytogeneticists and editors who have generously permitted the use of published and unpublished photographs. *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

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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

Molecular Studies of the Human Sex-chromosomes - Mark T. Ross 1990

Genetics of Sex Determination - R.S. Verma

1996-04-23

The Genetical Theory of Natural Selection by R.A. Fisher (1930) dictated that sexual dimorphisms may depend upon a single medelian factor. This could be true for some species but his suggestion could not take off the ground as gender in Drosophila is determined by the number of X chromosomes. Technical advances in molecular biology have revived the initial thinking of Fisher and dictate that TDF or SRY genes in humans or Tdy in mice are sex determining genes. The fortuitous findings of XX males and XY female, which are generally termed sex reversal phenomenon, are quite bewildering traits that have caused much amazement concerning the pairing mechanism(s) of the pseudoautosomal regions of human X and Y chromosomes at meiosis. These findings have opened new avenues to explore further the genetic basis of sex determination at the single gene level. The aim of the fourth volume, titled Genetics of Sex Determination is

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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.

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

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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.

[DNA Synthesis of Human Sex Chromosomes](#) - F. B. Giannelli 1967

[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 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

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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

Sex Chromosome Abnormalities And Human Behavior - Daniel B Berch 2019-07-11

This volume is based on a symposium, "Cognitive and Psychosocial Dysfunctions Associated with Sex Chromosome Abnormalities," presented at the 1986 Annual Meeting of the American Association for the Advancement of Science. It contains reports from individual research groups and a psychological study.

Human Cytogenetics - John L. Hamerton 2013-10-22

Human Cytogenetics: Clinical Cytogenetics,

Volume II presents the general theoretical principles and clinical aspects of cytogenetics, a branch of genetics that deals specifically with the study of the chromosomes. The volume focuses on the clinical cytogenetics of human. It discusses the sex chromosomes and their abnormalities and the abnormalities of sexual development and differentiation; mechanism of sex determination in mammals; major autosomal abnormalities found in human populations; and chromosome abnormalities in relation to human pregnancy wastage and chromosome changes in neoplasia. The book will be a great reference book for geneticists, cytogeneticists, pathologists, clinicians, and medical students.

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

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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 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

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determination and the current knowledge of sex chromosomes. It will also interest students in advanced undergraduate and graduate courses in these areas.

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

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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

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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

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

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

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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.

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.

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