

Sex Chromosomes Yy

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 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.

Report on the XYY Chromosomal Abnormality -

Center for Studies of Crime and Delinquency
(U.S.) 1970

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.

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.

Essential Genetics - Daniel L. Hartl 2006

Completely updated to reflect new discoveries and current thinking in the field, the Fourth Edition of *Essential Genetics* is designed for the shorter, less comprehensive introductory course in genetics. The text is written in a clear, lively, and concise manner and includes many special features that make the book user friendly. Topics were carefully chosen to provide a solid foundation for understanding the basic processes of gene transmission, mutation, expression, and regulation. The text also helps students develop skills in problem solving, achieve a sense of the social and historical context in which genetics has developed, and become aware of the genetic resources and information available through the Internet.

Sex Control in Aquaculture - Hanping Wang 2018-11-08

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A comprehensive resource that covers all the aspects of sex control in aquaculture written by internationally-acclaimed scientists. Comprehensive in scope, *Sex Control in Aquaculture* first explains the concepts and rationale for sex control in aquaculture, which serves different purposes. The most important are: to produce monosex stocks to rear only the fastest-growing sex in some species, to prevent precocious or uncontrolled reproduction in other species and to aid in broodstock management. The application of sex ratio manipulation for population control and invasive species management is also included. Next, this book provides detailed and updated information on the underlying genetic, epigenetic, endocrine and environmental mechanisms responsible for the establishment of the sexes, and explains chromosome set manipulation techniques, hybridization and the latest gene knockout approaches. Furthermore, the book offers detailed protocols and key summarizing

information on how sex control is practiced worldwide in 35 major aquaculture species or groups, including fish and crustaceans, and puts the focus on its application in the aquaculture industry. With contributions from an international panel of leading scientists, *Sex Control in Aquaculture* will appeal to a large audience: aquaculture/fisheries professionals and students, scientists or biologists working with basic aspects of fish/shrimp biology, growth and reproductive endocrinology, genetics, molecular biology, evolutionary biology, and R&D managers and administrators. This text explores sex control technologies and monosex production of commercially-farmed fish and crustacean species that are highly in demand for aquaculture, to improve feed utilization efficiency, reduce energy consumption for reproduction and eliminate a series of problems caused by mixed sex rearing. Thus, this book: Contains contributions from an international panel of leading scientists and professionals in

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the field Provides comprehensive coverage of both established and new technologies to control sex ratios that are becoming more necessary to increase productivity in aquaculture Includes detailed coverage of the most effective sex control techniques used in the world's most important commercially-farmed species Sex Control in Aquaculture is the comprehensive resource for understanding the biological rationale, scientific principles and real-world practices in this exciting and expanding field. *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

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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.

Literature Search - National Library of Medicine (U.S.) 1970

Heredity - Prentice-Hall, Inc 1994-06
Reviewed in The Textbook Letter: 3-4/94.

Biology Matters!: Genetics - 2004

An introduction to genetics, with terms and definitions, a brief history of genetics, modern thinking on the subject, how it determines heredity, activities for safe experiments, and questions and answers.

Evolution of Sex Determining Mechanisms - James J. Bull 1983

Evolutionary Genetics of Fishes - Bruce Turner 1984-04

It is my hope that this collection of reviews can

be profitably read by all who are interested in evolutionary biology. However, I would like to specifically target it for two disparate groups of biologists seldom mentioned in the same sentence, classical ichthyologists and molecular biologists. Since classical times, and perhaps even before, ichthyologists have stood in awe at the tremendous diversity of fishes. The bulk of effort in the field has always been directed toward understanding this diversity, i. e. , extracting from it a coherent picture of evolutionary processes and lineages. This effort has, in turn, always been overwhelmingly based upon morphological comparisons. The practical advantages of such comparisons, especially the ease with which morphological data can be had from preserved museum specimens, are manifold. But considered objectively (outside its context of "tradition"), morphological analysis alone is a poor tool for probing evolutionary processes or elucidating relationships. The concepts of "relationship" and of "evolution" are

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inherently genetic ones, and the genetic bases of morphological traits are seldom known in detail and frequently unknown entirely. Earlier in this century, several workers, notably Gordon, Kosswig, Schmidt, and, in his salad years, Carl Hubbs, pioneered the application of genetic techniques and modes of reasoning to ichthyology. While certain that most contemporary ichthyologists are familiar with this body of work, I am almost equally certain that few of them regard it as pertinent to their own efforts.

The Extra Y Chromosome and Deviant Behavior - Richard George Fox 1970

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. Proceedings of the Japan Academy - Nihon Gakushuin 1969

Chromosome Painting - Arun Kumar Sharma 2011-06-27

Chromosome Painting is the most modern and novel technique for directly identifying several gene sequences simultaneously in the chromosome, with the aid of specific probes in molecular hybridization. Its resolution ranges from single copy to entire genome sequences. It is now applied in plant, animal, and human systems, in gene mapping, identification of genetic disorders, evolutionary studies, and gene transfer experiments. This treatise is the first of its kind to cover the technique with all its modifications and applications. It is designed for regular use by postgraduate students and research workers in cell and molecular genetics, plant and animal sciences, agriculture, medicine, and phylogenetic studies.

A Cytogenetic Investigation of Sex Expression in Spinacia - William Putnam Bemis 1952

Neurogenetics - 2018-01-08

Genetic methodologies are having a significant impact on the study of neurological and psychiatric disorders. Using genetic science, researchers have identified over 200 genes that cause or contribute to neurological disorders. Still an evolving field of study, defining the relationship between genes and neurological and psychiatric disorders is evolving rapidly and expected to grow in scope as more disorders are linked to specific genetic markers. Part I covers basic genetic concepts and recurring biological themes, and begins the discussion of movement disorders and neurodevelopmental disorders, leading the way for Part II to cover a combination of neurological, neuromuscular,

cerebrovascular, and psychiatric disorders. This volume in the Handbook of Clinical Neurology will provide a comprehensive introduction and reference on neurogenetics for the clinical practitioner and the research neurologist. Presents a comprehensive coverage of neurogenetics Details the latest science and impact on our understanding of neurological psychiatric disorders Provides a focused reference for clinical practitioners and the neuroscience/neurogenetics research community Gardner and Sutherland's Chromosome Abnormalities and Genetic Counseling - R. J. M. Gardner 2018 Preceded by Chromosome abnormalities and genetic counseling / R.J. McKinlay Gardner, Grant R. Sutherland, Lisa G. Shaffer. c2012.

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