

Sex Chromosomes Klinefelter Syndrome

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.

Living with Klinefelter Syndrome, Trisomy X, and 47, Xyy: A Guide for Families and Individuals Affected by X and Y Chromosome Variations - Virginia Isaacs Cover Msw 2012-03

This comprehensive guide to X and Y chromosome aneuploidy is written in lay language for affected individuals and their families, providing an authoritative volume that explains X and Y chromosome variations in clear and accurate terms. These surprisingly common genetic conditions, affecting 1 in 500 individuals, include Klinefelter syndrome, Trisomy X and 47, XYY. This guide provides a lifespan approach to the three trisomy

conditions, as well as their less common variations involving 48 and 49 chromosomes. Readers are provided clear explanations of the genetics involved, diagnosis and disclosure issues, development from infancy through early adulthood, potential health and fertility concerns, and educational and psychosocial considerations. The text is illustrated with actual quotations from those who live with the disorders, and provides not only descriptions of potential concerns, but also strategies for successfully addressing the challenges that may develop.

Andrology - Eberhard Nieschlag 2010-01-13

The decade that has passed since publication of the second edition of this textbook has not only witnessed a tremendous increase in knowledge within the field of andrology, but also seen the field itself achieve a newfound status within the medical profession. Knowledge and status have been of mutual benefit to the field and the growing critical mass of diagnostic and therapeutic possibilities have caused andrology to be recognized as a medical subspecialty in some countries such as Germany, Poland, and Estonia. The European Academy of Andrology (EAA) served as a pacemaker for this development and continues to strive for establishment of andrology as a clinical field. Well-designed curricula and qualifying examinations have contributed to the official recognition of andrology as a speciality. This recognition of the field helps patients with andrological problems to find the specialist they seek. This textbook summarizes the current state of knowledge in the field of andrology. It is a source of knowledge to all those who are or want to become andrologists. In addition, as andrology is clearly an interdisciplinary field, this book may serve as a compendium and source of reference for all those physicians and biologists active in neighboring areas, who want to obtain an overview of andrology and who require

information on special problems. The extensive references are timely and up to date.

Sex Determination - Shanmugaratnam K. 1961

Symposium on Nuclear Sex - D. Robertson Smith 2013-10-22

Symposium on Nuclear Sex covers the proceedings of the 1957 Symposium on Nuclear Sex, held at King's College Hospital Medical School. This book is organized into three sections encompassing 22 chapters that consider the problem of developmental sex anomalies and certain cytological aspects. After a brief presentation of the history of chromosomal sex and sex anomalies, this book goes on exploring the genetic and cytological observations related to nuclear sex, with a particular emphasis on the genetic implications of nuclear sexing. The second part deals first with the fundamentals of sex chromosomes and the development of human intersexes. The discussion then shifts to problems in intersexuality, children of homosexuals, transvestism, sexual development disturbances, and the nature of the genetic defect in Klinefelter's syndrome. The third part covers studies of the nuclear sex of a group of teratomas and other sex tumors. This book will prove useful to workers and researchers in the fields related to nuclear sexing including anatomy, biochemistry, biology, clinical medicine, cytology, endocrinology, genetics, pathology, physiology, psychology, and surgery.

Human Chromosome Methodology - Jorge J. Yunis 2012-12-02

Human Chromosome Methodology serves as an authoritative guide to cytogenetic techniques. This book presents each phase of laboratory work from preparation of materials for the X and Y bodies to application of other laboratory techniques including chromosome identification, autoradiography, and dermatoglyphics. The text also describes the structure and molecular organization of chromosomes and the advances in the automation of chromosome analysis. It provides a thorough review of the clinical manifestations of chromosome disorders. Organized into 13 chapters, the book presents the illustrated and diagrammatic examples and discussions of the subject matter and detailed tables and charts for learning efficiency. It also provides outlined presentation of

cytogenetic procedures and notes and comments for each procedure that will assist readers in erroneous work phases. Moreover, it gives thorough lists of references in each chapter for further reading. This reference will be useful for research professionals, lecturers, genetics and molecular biology students, and members of the medical profession involved in genetics.

Klinefelter Syndrome - Rumi Michael Leigh 2022-10-11

This book will explain the causes of Klinefelter, symptoms, and treatment. It will make you discover Klinefelter syndrome in its entirety. All in the form of questions and answers to facilitate understanding of the subject.

Sex Chromosomes and Testosterone: A Novel Mouse Model Sheds Light on the Etiology of Klinefelter Syndrome - Shayna Marie Williams-Burris 2016

Klinefelter syndrome (KS) occurs when boys are born with a second X chromosome so their cells are XXY instead of XY. Men with KS have low testosterone, infertility, obesity and metabolic dysfunction, and some conditions that typically affect women such as osteoporosis, lupus, and breast cancer. Notably, they exhibit cognitive differences such as speech delay in early childhood and difficulty with executive functions as adults. Historically, KS symptoms were thought to be primarily due to low testosterone levels, yet testosterone treatment does not cure KS. Therefore, we hypothesize that direct genetic effects of the second X chromosome play an essential role. Previously, it was impossible to separate the influence of genes vs. hormones, but our lab has established the novel Sex Chromosome Trisomy (SCT) mouse model, which can be used to distinguish the two factors. The SCT model produces mice with XY and XXY chromosomes that are either male or female. XXY males have low testosterone so differences between the male groups may be due either genetic or hormonal differences. However, both female groups have low testosterone, so differences in females provide strong evidence for direct genetic effects. We find that XXY mice have an obesity phenotype like that seen in human KS, and that sex chromosomes influence this trait, though the genetic effect may be facilitated by the

presence of hormones. The mice also show an osteoporosis phenotype like humans that we find to be influenced by hormones only. Finally, a preliminary study in another mouse model of KS, the XY* model, show XXY* mice may have executive functions deficit like those seen in humans. Next steps should test the executive functioning in the SCT model, and to also measure pup vocalizations as a model of speech delay. Further research should expand the use of the model to gene expression studies to identify which genes are responsible for direct genetic effects in SCT mice. Ideally the SCT model will be increasingly characterized and lead to a better understanding of the genetic factors at play in KS, potentially leading to better treatment options for KS patients.

Diabetes Associated with Single Gene Defects and Chromosomal Abnormalities - F. Barbetti 2017-03-21

This volume, written by renowned experts, provides complete coverage of the main genetic conditions associated with diabetes. Divided into five sections, it offers insights into genetic defects involving the pancreatic beta cell, extreme insulin resistance, ciliopathies, obesity and glucose metabolism, chromosomal defects, and other genetic conditions associated with increased susceptibility to diabetes. Other topics include the various subtypes of monogenic diabetes, such as the neonatal form and the Wolfram syndrome, as well as chromosomal defects leading to complex conditions affiliated with diabetes, like Trisomy 21 or Prader-Willi syndrome. There are also chapters dedicated to the poorly explored relationships between metabolism and neurodegenerative disorders like Friedreich's ataxia and muscular dystrophy. This book is a reference for every pediatric and adult endocrinologist and diabetologist, even experienced ones, with an interest in the intricacies and protean aspects of disorders of glucose metabolism secondary to genetic diseases.

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.

Molecular Mechanisms Underlying Sexual Differentiation of the Brain and Brain Behavior - Tuck Cheong Ngun 2012

The brains of males and females are different anatomically and chemically. There are also sex differences in neurological disease, cognition and behavior that are presumed to be downstream consequences. Two main factors have been implicated in sexual differentiation of the brain: gonadal hormones and direct genetic effects. Here, we explore the role of sex chromosomes in the brain and behavior and the molecular mechanisms mediating the effects of these factors. We investigated the contribution of sex chromosomes to sex differences in brain and behavior by studying a novel mouse model of Klinefelter Syndrome (KS) termed the Sex Chromosome Trisomy (SCT) model. KS is characterized by the presence of an additional X chromosome in men. We investigated the extent of feminization in XXY male mice. We found that partner preference in XXY males is feminized and that these differences are likely due to interactions of the additional X chromosome with the Y. We also found that expression of a small but highly significant proportion of genes is feminized in the bed nucleus of the stria terminalis/preoptic area (BNST/POA) of XXY males, which represent strong candidates for dissecting the molecular pathways responsible for KS-specific phenotypes. We also investigated whether DNA methylation could be one of the molecular mechanisms that mediate the long-lasting, irreversible effects of perinatal testosterone in the BNST/POA. Using a genome-wide approach, we found that methylation at 45 genes was affected three days after the exposure. This number ballooned to 740 in adult animals. There was also a shift to a more masculine pattern of DNA methylation during adulthood in females that had seen perinatal testosterone. These results strongly suggest that perinatal testosterone confers an initial imprint that is amplified over postnatal development. We also observed sex differences in methylation at numerous genes. The interplay between

gonadal hormones and sex chromosomes is a complex one. Collectively, our results provide further support for the theory of direct genetic effects in brain sexual differentiation and suggest that DNA methylation may be one mechanism that mediates not only the effects of gonadal hormones but also direct genetic effects.

The XYY Syndrome and Aerospace Operations - George K. Cantrell 1969

In this paper, published reports pertaining to the XYY condition will be critically reviewed to determine what, if any, personality characteristics are associated with the condition. The need for any additional research will also be discussed.

Sex-determination - Francis Albert Eley Crew 1965

The Chromosome Disorders - Gordon Howard Valentine 1969

High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries - Sara White 2020-02-19

This comprehensive reference provides veterinarians with everything they need to know about performing surgeries such as spaying and neutering in busy animal shelters. It includes surgical and anesthetic techniques, perioperative procedures, reproductive medicine, and program management regarding dogs, cats, rabbits, and other small mammals. With more than 550 full-color images, High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries provides spay-neuter and shelter veterinarians with information on the most current clinical techniques. Dozens of veterinary experts offer their expert advice and knowledge on perioperative care, surgery instrumentation, infectious disease control, anesthesia protocols, CPR, the fundamentals of HQHVSN, and more. Covers all aspects of common shelter surgeries, including surgical and anesthetic techniques, perioperative procedures, reproductive medicine, and program management Provides coverage of dogs, cats, rabbits, and other small mammals Written by leaders in the field with experience in surgery, medicine, spay-neuter practice, teaching, and research High-Quality, High-Volume Spay and Neuter and

Other Shelter Surgeries is an excellent resource for veterinarians, veterinary technicians, and students, as well as clinic and shelter owners.

Gender and Genes - Klasien Horstman 2013

This Yearbook of Women's History (Jaarboek voor Vrouwengeschiedenis) is dedicated to Gender and Genes. Intruding upon our everyday lives, the world of DNA, genes and genomics has become a challenging field of research, both clinical and biomedical as well as socio-cultural. It is also a challenging topic for a Yearbook which traditionally focuses on women and gender from a historical point of view. Gender issues are part and parcel of genes and genomics in scientific research and socio-cultural discourses and representations. Current literature on genes and genomics does not abound in analyses of biomedical and socio-cultural realms where gender aspects are played out and exchanged. This Yearbook may thus contribute to a field of analysis which contextualizes history from the viewpoint of current biotechnological developments.

This volume contains articles on medical cases (reproductive testing and the case of the sex chromosomes, and framing cancer risk in women and men), cultural representations, a portrait of female scientist Rosalind Franklin and interviews with feminist science philosophers Katarina Karkazis and Donna Dickenson.

Ferri's Clinical Advisor 2020 E-Book - Fred F. Ferri 2019-06-01

Significantly updated with the latest developments in diagnosis and treatment recommendations, Ferri's Clinical Advisor 2020 features the popular "5 books in 1" format to organize vast amounts of information in a clinically relevant, user-friendly manner. This efficient, intuitive format provides quick access to answers on 1,000 common medical conditions, including diseases and disorders, differential diagnoses, and laboratory tests - all reviewed by experts in key clinical fields. Updated algorithms, along with hundreds of new figures, tables, and boxes, ensure that you stay current with today's medical practice. Contains significant updates throughout, covering all aspects of current diagnosis and treatment. Features 27 all-new topics including chronic traumatic encephalopathy, medical marijuana, acute respiratory failure, gallbladder carcinoma, shift work disorder, radial tunnel syndrome, fertility preservation in women,

fallopian tube cancer, primary chest wall cancer, large-bowel obstruction, inguinal hernia, and bundle branch block, among others. Includes a new appendix covering Physician Quality Reporting System (PQRS) Measures. Provides current ICD-10 insurance billing codes to help expedite insurance reimbursements. Patient Teaching Guides for many of the diseases and disorders are included, most available in both English and Spanish versions, which can be downloaded and printed for patients.

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.

Cassidy and Allanson's Management of Genetic Syndromes - John C. Carey 2021-01-27

MANAGEMENT OF GENETIC SYNDROMES THE MOST RECENT UPDATE TO ONE OF THE MOST ESSENTIAL REFERENCES ON MEDICAL GENETICS Cassidy and Allanson's Management of Genetic Syndromes, Fourth Edition is the latest version of a classic text in medical genetics. With newly covered disorders and cutting-edge, up-to-date information, this resource remains the most crucial reference on the management of genetic syndromes in the field of medical genetics for students, clinicians, caregivers, and researchers. The fourth edition includes current information on the identification of genetic syndromes

(including newly developed diagnostic criteria), the genetic basis (including diagnostic testing), and the routine care and management for more than 60 genetic disorders. Written by experts, each chapter includes sections on: Incidence Diagnostic criteria Etiology, pathogenesis and genetics Diagnostic testing Differential diagnosis Manifestations and Management (by system) The book focuses on genetic syndromes, primarily those involving developmental disabilities and congenital defects. The chapter sections dealing with Manifestations and Management represents the centerpiece of each entry and is unmatched by other genetic syndrome references. Management of Genetic Syndromes is perfect for medical geneticists, genetic counselors, primary care physicians and all healthcare professionals seeking to stay current on the routine care and management of individuals with genetic disorders.

Animal Models for the Study of Human Disease - Joachim Wistuba 2013-05-29

Klinefelter syndrome (KS) is a frequent (0.2%) sex chromosomal disorder in males presenting with a 47,XXY karyotype. This condition is associated with infertility, hypogonadism, and metabolic and cognitive impairments. As experimental research is restrictive in patients, animal models for KS are needed to explore its molecular and genetic basis. Supernumerary X chromosomes due to meiotic nondisjunctions sporadically also occur in males of other mammalian species and provoke the same or at least some of the features observed in patients. However, as the condition is linked to infertility, the generation and availability of a substantial number of experimental animals cannot be fulfilled using individuals with the naturally occurring syndrome. Breeding of B6Ei.Lt-Y* mice carrying a mutated Y chromosome provides a sufficient number of males with a supernumerary X chromosome that resembles the human disorder and permits the design and performance of the complex investigations needed to elucidate the mechanisms at the heart of the pathology. This chapter reviews the insights obtained into studies into KS over the past decades and highlights the contribution made by the animal model.

Sex Chromosomes Klinefelter Syndrome:

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