

Genetic Mechanisms Of Sexual Development

Mosaic Mutations Reveal New Insights into Bipolar Disorder - Neuroscience News

Morphological, histological and gene-expression analyses on ... - Nature.com

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Characterization of altered molecular mechanisms in Parkinson's ... - Science

Proteomic association with age-dependent sex differences in ... - Nature.com

Single-cell profiling of Anopheles gambiae spermatogenesis defines ... - Nature.com

Antibiotic Resistance Is A Reality - Here's How To Stop It - IFLScience

How male mosquitoes compensate for having only one X chromosome - Science Daily

Screening of genes interacting with high myopia and ... - Nature.com

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Functional genomic mechanisms of opioid action and opioid use ... - Nature.com

Sex specific molecular networks and key drivers of Alzheimer's ... - Molecular Neurodegeneration

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

Psychological distress as a systemic economic risk in the USA - Nature.com

Schizophrenia Risk Genes: Placenta's Role May Outweigh Brain's - Neuroscience News

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

Evolutionary differentiation of androgen receptor is responsible for ... - Nature.com

Interlocking of co-opted developmental gene networks in Drosophila ... - Nature.com

Obesity linked to prostate cancer risk: New study uncovers inherited ... - News-Medical.Net

Early life adversity leaves marks in the brain - Drug Discovery News

Genetic Predisposition to Chronic Pain Disorder Identified, With ... - Genetic Engineering & Biotechnology News

Patients', Health Care Professionals' Reporting of Comorbidities ... - Pharmacy Times

Sexual differentiation of neural mechanisms of stress sensitivity ... - pnas.org

A DBHS family member regulates male determination in the filariasis ... - Nature.com

Evolution of a ZW sex chromosome system in willows - Nature.com

Genetics Behind Differences In Male And Female Organs Decoded ... - IFLScience

High-throughput analysis of the transcriptional patterns of sexual ... - Parasites & Vectors

Identification and validation of candidate clinical signatures of ... - Nature.com

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Regulatory basis for reproductive flexibility in a meningitis-causing ... - Nature.com

Study identifies key genetic mechanism of drug resistance in the ... - News-Medical.Net

Recognition of polymorphic Csd proteins determines sex in the ... - Science

Genetics implicates overactive osteogenesis in the development of ... - Nature.com

A novel approach to risk exposure and epigenetics—the use of ... - BMC Medicine

XX Male: Early Detection With Prenatal Testing - Cureus

Space Biology Program - Science@NASA

Scientists tie obesity to sex- and age-specific genes - Science Daily

Evidence for involvement of the alcohol consumption WDPCP gene ... - Nature.com

Overdosed gene on chromosome 21 accelerates aging in people ... - News-Medical.Net

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Functional convergence of genomic and transcriptomic architecture ... - Nature.com

Multi-ancestry genome-wide association study of cannabis use ... - Nature.com

Genetic reasons behind Raynaud's phenomenon discovered - News-Medical.Net

Nut consumption linked to improved male fertility, systematic review ... - News-Medical.Net

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How heritable is the epigenome? - Drug Discovery News

The function and evolution of a genetic switch controlling sexually dimorphic eye differentiation in honeybees - Phys.org

A conserved RWP-RK transcription factor VSR1 controls gametic ... - pnas.org

Immune Response, Metabolism Differences May Explain Increased ... - Drug Topics

Rheumatoid arthritis - The Lancet

A better approach: Studying genetics by accounting for sex differences - ASU News Now

Big Steps Towards Plant Breeding's Holy Grail: Apomixis - Seed World

Explained: How do genes pass from generation to generation? - Times of India

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

A systematic review of neuroimaging epigenetic research: calling for ... - Nature.com

Exploring molecular mechanisms and genetic dysregulation in ... - News-Medical.Net

Red flags in child safeguarding - Pulse

Evolving Contemporary Management of Atrial Fibrillation in ... - AHA Journals

Frequent transitions in mating-type locus chromosomal organization ... - pnas.org

Predictors of HbA1c treatment response to add-on medication ... - Nature.com

The draft genome sequence of the Japanese rhinoceros beetle ... - Nature.com

Gene integral to initiating, sustaining sperm cell development ... - psu.edu

Milkweed Bugs: 'An Appendage for Every Function' - Colby News

Association Between Endometriosis and Mental Disorders | IJWH - Dove Medical Press

UAB researchers demonstrate how genetics play a role in the ... - University of Alabama at Birmingham

Ovotesticular Disorder of Sex Development Presenting as a Scrotal ... - AAP

Determinants of persistent symptoms after treatment for Lyme ... - The Lancet

The male sex chromosome, the last mysterious piece of the human genome, has been fully sequenced - Medical Xpress

Risk of incident systemic sclerosis | CLEP - Dove Medical Press

Genetic evidence for causal effects of leukocyte counts on risk for ... - Nature.com

Novel insights into the role of long non-coding RNA in the human ... - Nature.com

Understanding How Sex-Based Differences Impact Health ... - Feinberg News Center

Study identifies specific genetic variants that affect the skeletal form ... - News-Medical.Net

The Diagnosis and Genetic Mechanisms of Prader-Willi Syndrome ... - Cureus

Epigenetic Mechanisms in Type 2 Diabetes - News-Medical.Net

Genetic Mechanisms of Sexual Development -

Evolution of Sex Determining Mechanisms -
James J. Bull 1983

The Evolution of Sex Determination - Leo W. Beukeboom 2014

temperature) or social variables (e.g. *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.

Endocrinology of the Testis and Male Reproduction - Manuela Simoni 2017-09-18

This book provides a comprehensive overview of endocrinology of the male reproductive system, explaining how it works and how, sometimes, it fails to work. World-class specialists present state of the art knowledge on all aspects, including anatomy, physiology, molecular biology, genetics, pathophysiology, clinical manifestations of testicular diseases, endocrine aspects of andrological and sexual diseases, and therapy. Extensive consideration is given to sexual development, testicular function, the clinical approach to disorders of male reproduction, male hypogonadism, sexual dysfunction, and male infertility. In addition, sociodemographic, psychological, and ethical aspects of male reproductive disorders are discussed. The book is intended as a major reference for endocrinologists, andrologists, and sexologists, as well as basic and clinical scientists. It is published as part of the SpringerReference program, which delivers access to living editions constantly updated through a dynamic peer-review publishing process.

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,

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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.

Molecular Genetics of Sex Determination - Stephen S. Wachtel 2014-07-23

In this era of accelerated discovery and prolific output, *Molecular Genetics of Sex Determination* keeps readers abreast of this field's fast-moving biology. Its chapters were completed by experts in each area only months before publication. The text is organized into two parts. First, it reviews the basic biology of sex determination and summarizes ground-breaking work in mouse, marsupial, and *Drosophila* systems. Second, it covers current human genetics, clinical studies, and the syndromes of abnormal sex differentiation. With chapters by preeminent reproductive biologists, this is a capital work. Ohno's law is described by Ohno; the Lyon hypothesis, by Lyon; Sinclair tells how he cloned the testis-determining gene; and so on.

Molecular Genetics of Sex Determination is authoritative, comprehensive, and current. It is prime reading for geneticists, developmental biologists, graduate students in these and related fields, clinical researchers, physicians, and medical students. Reviews the genetics of sex determination in 19 up-to-date chapters. Features research on sex chromosomes and sex-determining genes. Includes abnormalities of sex determination and clinical genetics. Written by scientists who pioneered work in this field.

Genes and Mechanisms in Vertebrate Sex Determination - Gerd Scherer 2013-04-17

Following an opening chapter by the late Susumu Ohno on paralogues of sex-determining genes, the five best-studied genes essential for

early mammalian gonadal development are portrayed in detail: SF-1 and WT1 and their roles in early events in gonadal development, SRY and SOX9 in testis determination, and the anti-testis gene DAX-1. Subsequent chapters look at the roles of these genes in sex determination in marsupial mammals, birds, reptiles, amphibians and fish, and review the different sex-determining mechanisms, genetic and environmental, that operate in these different vertebrate classes. Two insights emerge: one, that the same basic set of genes appears to operate during early gonadal development in all vertebrates, despite the differences in mechanisms; the other, that sex determination in vertebrates results from a complex network of regulatory interactions and not from a simple hierarchical cascade of gene actions.

The Genetics and Biology of Sex

Determination - Derek J. Chadwick 2002-04-26

Nature employs a wide variety of sex determining mechanisms and it is only comparatively recently that the tools have become available for these to be explored at the cellular and molecular levels. A major landmark was the discovery in 1990 of the SRY gene and the subsequent demonstration of its key role in triggering male sex determination in transgenic mice. This book reviews and discusses our current understanding of the molecular genetic pathways of sex determination, with special emphasis on vertebrates. It features comparisons with other modes of sex determination, consideration of the biology of sexual development and discussion of the evolution of sex-determining mechanisms. By bringing together an international and interdisciplinary group of experts who study many different aspects of the problem, the book highlights much new and exciting work in this area and serves to identify and stimulate promising new research directions.

Genetic Mechanisms of Sexual Development

- H. Lawrence Villet 1979

Molecular-Genetic Mechanisms of Sex Determination in Animals - Aleksandr F. Smirnov
Gender (sex) is a set of morphological and physiological characteristics of the organism underlying sexual reproduction, the essence of

which is reduced to fertilization, i.e. the fusion of male and female gametes (gametes) zygote, which develops into a new organism. Sexual reproduction of a species is considered as one of the mechanisms of its homeostasis. Thanks to this mechanism, numerous species have an evolutionary advantage. In the book, two authors will discuss the types of genetic sex determination and differentiation, mostly in multicellular animal organisms. Sex determination is both genetic and environmental process, the sex of an individual being established through an alternative physiological solution. There are two main postulated mechanisms of sex determination: genetic (GSD, Genetical Sex Determination) and environmental (ESD, Environmental Sex Determination).

Sex Differences in Brain and Behavior -

Cynthia L. Jordan 2022

"The extent to which there are differences between the sexes is an area of interest to physiologists, neuroscientists, and clinicians, as well as social scientists and the general public. This book examines recent research on the biological basis of sex differences, including differences in the brain, behavior, the immune system, and disease states"--

Sex Determination in Vertebrates -

2019-04-16

Sex Determination, Volume 134, the latest release in the Current Topics in Developmental Biology series, contains current reviews in the field of vertebrate sex determination. It covers molecular pathways of sex determination in genetic and environmental species and encompasses both sex determination of somatic lineages and commitment of germ cells to male or female fate. Chapters in this new release cover, amongst other topics, Mapping the Sox9 Enhancer Elements, Epigenetic Regulation of Sex Determination, Evolution and Management of Sex Chromosomes, Regulation of Germ Cell Sex Identity in Medaka, Control of Sex Determination in Zebrafish, Sexually Dimorphic Germ Cell Identity in Mammals, and more. Contains reviews written by leading experts in each field Includes informative figures that illustrate principle points that are useful for teaching Written in a style that is clear and simple

Deciphering the Molecular Mechanisms of

Gonadal Development - Sandra Elena Rojo Mendoza 2015

In mammals, sex determination and development is a complex process that involves genetic networks acting synergistically or antagonistically. Testis formation is initiated by SRY+SF1 up-regulation of SOX9 expression beyond a critical level, resulting in the activation of male-specific program and ovaries repression. In females, SRY absence results in the activation of ovarian development and testis repression. Errors in the process result in gonadal dysgenesis (DSD). Although, we begin to know the genes involved in gonad development, mutations in these genes explain only few DSD cases, and the mechanism leading to abnormal sexual development remain misunderstood. DMRT1 regulates sex-determination in different species. Its role in mammalian sex-determination is unclear. We identified the first point mutation in human DMRT1 associated with a lack of testis-determination. Functional analyses revealed the mechanism by which this mutation could lead to DSD. Showing that, differently to mouse, human DMRT1 is involved in primary testis-determination and that at molecular level sex-determination a very conserved process. Further studies using exome sequencing on patients with 46,XY DSD identify pathogenic mutations in 2 SOX genes: SOX7 & SOX8. Suggesting a possible functional redundancy amongst SOX genes in sex-determination. We identified mutations in GATA4 associated with 46,XY DSD, establishing a role for this gene as a DSD cause. The functional consequences of these mutations on their biological activity were assessed using classical approaches. Our results indicate changes in biological activity of the mutated proteins but in some cases don't reveal the mechanisms involved in DSD. Therefore, the development of novel in-situ cellular models may provide a tool to identify these mechanisms. Using mouse embryonic stem cells we're developing novel cellular models to understand the biological effect of these mutations in the appropriate environment.

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.

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Sex Determination and Differentiation in Reptiles - Ettore Olmo 2010

Reptiles are a fascinating group for the study of sexual development because they exhibit a wide range of sex-determining mechanisms, from strict genetic sex determination (GSD) to strict thermal sex determination (TSD) and intermediate systems of GSD that are to various degrees overridden by environmental effects. This thematic issue presents the latest data on different aspects of sex determination in reptiles. Following an evolutionary perspective on why reptiles might be predisposed to evolve TSD, the papers in this issue explore in detail the different genetic and molecular mechanisms of sex determination and differentiation. They consider recent findings such as the discovery of new genes differentially expressed at male and female sex-determining temperatures, a new model of the role of aromatase, and the contribution of heat-shock proteins to TSD in the American alligator. Further studies examine the role played by sex allocation, the advantage of viviparity, and the effects of anthropogenic climate change on the sex ratio in TSD reptile populations. Providing a valuable overview for both students and researchers, this publication is essential reading for developmental and reproductive biologists, herpetologists, comparative endocrinologists, evolutionary biologists and geneticists.

Spectrum of Sex - Minoru Tanaka 2022-11-07

This book introduces cutting-edge studies on the spectrum of sex. The sex spectrum can be understood as an interwoven mechanism sustaining graded phenotypes between the two sexes. The book overviews three elements that develop the sex spectrum: genetics, the endocrine system, and the environment. Part I discusses the genetic regulation during sex determination, which often results in a mixture of two sexes or sex reversal. The evolutionary aspects of the genetic determinants are also discussed. Part II presents the involvement of endocrine regulation in the sex spectrum, which covers a broad range of phenotypic events, including sexual behavior and metabolism. Interestingly, sex hormones can also act as sex determinants. Finally, Part III shows that intrinsic factors, such as sex-determining genes and sex hormones, are not the only factors in sex

development. The environment surrounding organisms, such as symbiosis and metabolism, act on the sex as critical factors, generating the sex spectrum. Determination and development of the two sexes have been a topic of great interest and a long-standing issue in biology. The book updates the conventional view that biological sex is fixed after birth and sets new perspectives for understanding sex as a spectrum manifested in multiple phenomena. Each chapter contributed by leading experts explains the sex spectrum in various organisms and their underlying mechanisms from the latest ongoing studies. The book provides a valuable resource for not only experts in developmental biology, physiology, and medical science, but also non-scientists and anyone interested in the topic.

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 Genetics and Biology of Sex Determination (Novartis Foundation Symposia Book 244) - Derek J. Chadwick
2021-04-29

Nature employs a wide variety of sex determining mechanisms and it is only comparatively recently that the tools have become available for these to be explored at the cellular and molecular levels. A major landmark was the discovery in 1990 of the SRY gene and the subsequent demonstration of its key role in triggering male sex determination in transgenic mice. This book reviews and discusses our current understanding of the molecular genetic pathways of sex determination, with special

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