

Sex Chromosome Specialization And Degeneration In Mammals

The Complete Field Guide to Stick and Leaf Insects of Australia Paul D Brock 2009-01-29 Australia has a rich diversity of phasmids - otherwise known as stick and leaf insects. Most of them are endemic, few have been studied and new species continue to be found. Stick insects are, by far, Australia's longest insects - some of them reach up to 300 mm in body length, or more than half a metre if you include their outstretched legs. Many stick insects are very colourful, and some have quite elaborate, defensive behaviour. Increasingly they are being kept as pets. This is the first book on Australian phasmids for nearly 200 years and covers all known stick and leaf insects. It includes photographs of all species, notes on their ecology and biology as well as identification keys suitable for novices or professionals.

Temperature-Dependent Sex Determination in Vertebrates Nicole Valenzuela 2004 Edited by the world's foremost authorities on the subject, with essays by leading scholars in the field, this work shows how the sex of reptiles and many fish is determined not by the chromosomes they inherit but by the temperature at which incubation takes place.

Equine Genomics Bhanu P. Chowdhary 2013-04-15 Analysis of the equine genome began just over a decade ago, culminating in the recent complete sequencing of the horse genome. The availability of the equine whole genome sequence represents the successful completion of an important era of equine genome analysis, and the beginning of a new era where the sequence information will catalyze the development of new tools and resources that will permit study of a range of traits that are economically important and are significant to equine health and welfare. Equine Genomics provides a timely comprehensive overview of equine genomic research. Chapters detail key accomplishments and the current state of research, as well as looking forward to possible applications of genomic technologies to horse breeding, health, and welfare. Equine Genomics delivers a global overview of the topic and is seamlessly edited by a leading equine genomics researcher. Equine Genomics is an indispensable source of information for anyone with an interest in this increasingly important field of study, including equine genomic researchers, clinicians, animal science professionals and equine field veterinarians.

Strickberger's Evolution Brian Keith Hall 2014 Now with a new full color design and art program, the Fifth Edition of Strickberger's Evolution is updated with the latest data and updates from the field. The authors took care to carefully modify the chapter order in an effort to provide a more clear and student-friendly presentation of course material. The original scope and theme of this popular text remains, as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time. New boxed features concentrating on modern and exciting research in the field are included throughout the text. New and Key Features of the Fifth Edition- New Full color design and art program- Maintains the student-friendly engaging writing-style for which it is known- A reorganized chapter order provides a more clear and accessible presentation of course material.- Chapters on the evolution of biodiversity are now found on the text's website.- Access to the companion website is included with every new copy of the text.- New boxed features highlight new and exciting research in the field.

From Clone to Bone Robert J. Asher 2012-10-18 Since the 1980s, a renewed understanding of molecular development has afforded an unprecedented level of knowledge of the mechanisms by which phenotype in animals and plants has evolved. In this volume, top scientists in these fields provide perspectives on how molecular data in biology help to elucidate key questions in estimating paleontological divergence and in understanding the mechanisms behind phenotypic evolution. Paleobiological questions such as genome size, digit homologies, genetic control cascades behind phenotype, estimates of vertebrate divergence dates, and rates of morphological evolution are addressed, with a special emphasis on how molecular

biology can inform paleontology, directly and indirectly, to better understand life's past. Highlighting a significant shift towards interdisciplinary collaboration, this is a valuable resource for students and researchers interested in the integration of organismal and molecular biology.

Molecular Mechanisms of Hormone Actions on Behavior Anne M. Etgen 2010-03-16 A single volume of 31 articles, *Mechanisms of Hormone Actions on Behavior* is an authoritative selection of relevant chapters from the *Hormones Brain and Behavior 2e MRW*, the most comprehensive source of neuroendocrinological information assembled to date (AP June 2009). The study of hormones as they impact the brain and, subsequently, behavior is a central topic in neuroscience, endocrinology and psychiatry. This volume offers an overview of neuroendocrinological topics, approaching the subject from the perspective of the mechanisms which control hormone actions on behavior. Female, male and stress hormones are discussed at the cellular, behavioral and developmental level, and sexual differentiation of the development of hormone-dependent neuronal systems, neuropeptides/neuromodulators, and steroid-induced neuroplasticity are addressed. There is simply no other current single-volume reference with such comprehensive coverage and depth. Authors selected are the internationally renowned experts for the particular topics on which they write, and the volume is richly illustrated with over 175 figures (over 50 in color). A collection of articles reviewing our fundamental knowledge of the mechanisms of neuroendocrinology, the book provides an essential, affordable reference for researchers, clinicians and graduate students in the area. - The most comprehensive single-volume source of up-to-date data on the mechanisms behind neuroendocrinology, with review articles covering x,y z - Chapters synthesize information otherwise dispersed across a number of journal articles and book chapters, thus saving researchers the time consuming process of finding and integrating this information themselves - Offering outstanding scholarship, each chapter is written by an expert in the topic area and approximately 35% of chapters are written by international contributors - Provides more fully vetted expert knowledge than any existing work with broad appeal for the US, UK and Europe, accurately crediting the contributions to research in those regions - Heavily illustrated with 175 figures, approximately 54 in color - Presents material in most visually useful form for the reader

Brenner's Encyclopedia of Genetics Stanley Maloy 2013-03-03 The explosion of the field of genetics over the last decade, with the new technologies that have stimulated research, suggests that a new sort of reference work is needed to keep pace with such a fast-moving and interdisciplinary field. *Brenner's Encyclopedia of Genetics, Second Edition, Seven Volume Set*, builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published. The currency and accessibility of this foundational content will be unrivalled, making this work useful for scientists and non-scientists alike. Featuring relatively short entries on genetics topics written by experts in that topic, *Brenner's Encyclopedia of Genetics, Second Edition, Seven Volume Set* provides an effective way to quickly learn about any aspect of genetics, from Abortive Transduction to Zygotes. Adding to its utility, the work provides short entries that briefly define key terms, and a guide to additional reading and relevant websites for further study. Many of the entries include figures to explain difficult concepts. Key terms in related areas such as biochemistry, cell, and molecular biology are also included, and there are entries that describe historical figures in genetics, providing insights into their careers and discoveries. This 7-volume set represents a 25% expansion from the first edition, with over 1600 articles encompassing this burgeoning field Thoroughly up-to-date, with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition. Timely coverage of emergent areas such as epigenetics, personalized genomic medicine, pharmacogenetics, and genetic enhancement technologies Interdisciplinary and global in its outlook, as befits the field of genetics Brief articles, written by experts in the field, which not only discuss, define, and explain key elements of the field, but also provide definition of key terms, suggestions for further reading, and biographical sketches of the key people in the history of genetics

Sex Chromosomes and Sex-Linked Genes Susumu Ohno 2013-06-29 Natural selection operates among individual organisms which differ in their

genetic constitution. The degree of hereditary variability within a species is greatly enhanced by cross-fertilization. Indeed, the mechanism of sexual reproduction occurred very early in evolution, for it is seen today even in bacteria. In *Escherichia coli*, fertilization occurs by passage of the single chromosome from the male into the female bacterium (LEDERBERG, 1959). In multicellular organisms, the separation of germ from soma, and the production of haploid gametes became mandatory. The gametes were of two types. One, extremely mobile, was designed to seek out and penetrate the other, which loaded with nutrients, received the mobile gamete and initiated the development of a new individual. The foundation for true bisexuality was thus laid. In the primitive state of bisexuality, whether an individual is to be a sperm-producing male or an egg-producing female appears to be decided rather haphazardly. In the worm, *Banelia viridis*, the minute males are parasites in the female. Larvae that become attached to the proboscis of an adult female become males, while unattached larvae sink to the bottom and become females (BALTZER, 1935). The more sophisticated state of bisexuality was initiated by setting aside a particular pair of chromosomes for specialization and making either the male or the female a heterogametic sex. Sex chromosomes as we know them were thus born.

Innate Kevin J. Mitchell 2020-03-31 "What makes you the way you are--and what makes each of us different from everyone else? In *Innate*, leading neuroscientist and popular science blogger Kevin Mitchell traces human diversity and individual differences to their deepest level: in the wiring of our brains. Deftly guiding us through important new research, including his own groundbreaking work, he explains how variations in the way our brains develop before birth strongly influence our psychology and behavior throughout our lives, shaping our personality, intelligence, sexuality, and even the way we perceive the world. We all share a genetic program for making a human brain, and the program for making a brain like yours is specifically encoded in your DNA. But, as Mitchell explains, the way that program plays out is affected by random processes of development that manifest uniquely in each person, even identical twins. The key insight of *Innate* is that the combination of these developmental and genetic variations creates innate differences in how our brains are wired--differences that impact all aspects of our psychology--and this insight promises to transform the way we see the interplay of nature and nurture. *Innate* also explores the genetic and neural underpinnings of disorders such as autism, schizophrenia, and epilepsy, and how our understanding of these conditions is being revolutionized. In addition, the book examines the social and ethical implications of these ideas and of new technologies that may soon offer the means to predict or manipulate human traits. Compelling and original, *Innate* will change the way you think about why and how we are who we are."--Provided by the publisher.

Stem Cell Biology and Regenerative Medicine Charles Durand 2022-09-01 The study of stem cell biology is under intensive investigations. Because stem cells have the unique capability to self-renew and differentiate into one or several cell types, they play a critical role in development, tissue homeostasis and regeneration. Stem cells also constitute promising cell candidates for cell therapy. The aim of this book is to provide an accurate knowledge on stem cell biology and regenerative medicine. This book will cover many topics in the field and is based on seminars given by recognized scientists involved in the international master program on stem cell biology at the University Pierre and Marie Curie (UPMC) in Paris.

Evolution of the Human Genome I Naruya Saitou 2018-02-08 This book reviews the human genome from an evolutionary perspective. No such book has ever been published before, although there are many books on human genomes. There are two parts in this book: Overview of the Human Genome (Part I) and The Human Genome Viewed through Genes (Part II). In Part I, after a brief review of human evolution and the human genome (by Naruya Saitou), chapters on rubbish or junk DNA (by Dan Graur), GC content heterogeneity (by Satoshi Oota), protein coding and RNA coding genes (by Tadashi Imanishi), duplicated genes (by Takashi Kitano), recombinations (by Montanucci and Bertranpetit), and copy number variations including microsatellites (by Naoko Takezaki) are discussed. Readers can obtain various new insights on the human genome from this part. In Part II, genes in X and Y chromosomes (by Yoko Satta and others), HLA genes (by Timothy A. Jinam), opsin genes (by Shoji Kawamura and Amanda D. Melin),

genes related to phenotypic variations (by Ryosuke Kimura), transcription factors (by Mahoko Takahashi and So Nakagawa), diabetes-related genes (by Ituro Inoue), disease genes in general (by Ituro Inoue and Hirofumi Nakaoka), and microbial genomes (by Chaochun Wei) are discussed. The human genome sequences were determined in 2004, and after more than 10 years we are now beginning to understand the human genome from an evolutionary point of view. This book furnishes readers with a good summary of current research in the field.

Advances in Evolutionary Developmental Biology J. Todd Streebman 2013-10-17 Providing outstanding breadth of coverage in evo-devo, *Advances in Evolutionary Developmental Biology* provides a comprehensive review of the milestones of research in evolution and development and outlines the exciting research agenda for the field going forward. Compiling the viewpoints of a diverse group of field experts, this timely text expands the now-mature science of evo-devo into more complex areas of research. This essential reference is destined to become the go-to source for ideas and hypotheses for a new generation of graduate students in evolutionary and developmental biology.

Long Non-Coding RNAs Durdica Ugarkovic 2011-02-01 Long non-coding RNAs (lncRNAs), tentatively defined as ncRNAs of more than two hundred nucleotides in length, are characterized by the complexity and diversity of their sequences and mechanisms of action. Based on genome-wide studies, more than 3,300 of them exist, but to date only the limited number of functional lncRNAs have been identified and characterized. Nonetheless, lncRNAs have emerged as key molecules involved in the control of transcriptional and posttranscriptional gene regulatory pathways. They take part in the recruitment of chromatin modifying complexes and regulate splicing, localization, stability and translation of the target mRNAs. This book provides an overview of the rapidly advancing field of long ncRNAs, describing the epigenetic and non-epigenetic mechanisms by which they regulate various biological functions in model systems, from yeast to mammals. The role of ncRNAs in sex chromosome dosage compensation in flies and mammals is described, as well as their role in centromere and telomere biology. Long non-coding RNAs involved in environmental stress response and development are presented and their mechanisms of action discussed.

Bovine Genomics James Womack 2012-06-26 The genetic information being unlocked by advances in genomic and high throughput technologies is rapidly revolutionizing our understanding of developmental processes in bovine species. This information is allowing researchers unprecedented insight into the genetic basis of key traits. *Bovine Genomics* is the first book to bring together and synthesize the information learned through the bovine genome sequencing project and look at its practical application to cattle and dairy production. *Bovine Genomics* opens with foundational chapters on the domestication of cattle and traditional Mendelian genetics. Building on these chapters, coverage rapidly moves to quantitative genetics and the advances of whole genome technologies. Significant coverage is given to such topics as epigenetics, mapping quantitative trait loci, genome-wide association studies and genomic selection in cattle breeding. The book is a valuable synthesis of the field written by a global team of leading researchers. Providing wide-ranging coverage of the topic, *Bovine Genomics*, is an essential guide to the field. The basic and applied science will be of use to researchers, breeders, and advanced students.

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 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.

Vertebrate Sex Determination V. Lance 2003

Sex and Gender Differences in Infection and Treatments for Infectious Diseases Sabra L. Klein 2015-08-08 This book provides an overview of the underlying sex-based and hormone-based differences in immunity, wound healing and pharmacokinetics, while also exploring how pregnancy affects immunity. The second part of the book shows, for the first time in a single volume, the growing number of infectious diseases for which sex and gender differences are noted, identifies common as well as distinct mechanisms mediating these differences and illustrates how responses to treatments might differ between the sexes. The awareness that males and females differ in their response to specific pathogens as well as to treatments for infectious diseases may yield sex-specific personalized treatments. This book will be of interest to basic scientists and clinicians in the fields of microbiology, immunology and pharmacology. Individuals working in academia, government and industry will also benefit from the information presented.

Evolution of Sex Determining Mechanisms James J. Bull 1983

Platypus & Echidna 1993

Sex Differences in the Brain Jill B. Becker 2007-12-04 Within the basic and clinical biomedical research community, there is increasing recognition that differences between males and females across the lifespan affect an individual's health, his/her development of disease, signs and symptoms of pathophysiology, and response to therapy. This book is intended as a resource for scientists, clinicians, and students of the nervous system and behavior- a trove of practical information about how to study sex differences in the brain as well as a discussion of what is already known on the topic.

Biology of Sex Alex Mills 2018-01-01 This text explains the biological aspects of human sex by using direct and intriguing comparisons with the many variations in sexual systems among non-human organisms.

The Cell Biology of Stem Cells Eran Meshorer 2011-01-11 Stem cells have been gaining a lot of attention in recent years. Their unique potential to self-renew and differentiate has turned them into an attractive model for the study of basic biological questions such as cell division, replication, transcription, cell fate decisions, and more. With embryonic stem (ES) cells that can generate each cell type in the mammalian body and adult stem cells that are able to give rise to the cells within a given lineage, basic questions at different developmental stages can be addressed. Importantly, both adult and embryonic stem cells provide an excellent tool for cell therapy, making stem cell research ever more pertinent to regenerative medicine. As the title *The Cell Biology of Stem Cells* suggests, our book deals with multiple aspects of stem cell biology, ranging from their basic molecular characteristics to the in vivo stem cell trafficking of adult stem cells and the adult stem-cell niche, and ends with a visit to regeneration and cell fate reprogramming. In the first chapter, "Early embryonic cell fate decisions in the mouse", Amy Ralson and Yojiro Yamanaka describe the mechanisms that support early developmental decisions in the mouse pre-implantation embryo and the current understanding of the source of the most immature stem cell types, which includes ES cells, trophoblast stem (TS) cells and extraembryonic endoderm stem (XEN) cells.

Bovine Genomics James Womack 2012-03-16 The genetic information being unlocked by advances in genomic and high throughput technologies is

rapidly revolutionizing our understanding of developmental processes in bovine species. This information is allowing researchers unprecedented insight into the genetic basis of key traits. *Bovine Genomics* is the first book to bring together and synthesize the information learned through the bovine genome sequencing project and look at its practical application to cattle and dairy production. *Bovine Genomics* opens with foundational chapters on the domestication of cattle and traditional Mendelian genetics. Building on these chapters, coverage rapidly moves to quantitative genetics and the advances of whole genome technologies. Significant coverage is given to such topics as epigenetics, mapping quantitative trait loci, genome-wide association studies and genomic selection in cattle breeding. The book is a valuable synthesis of the field written by a global team of leading researchers. Providing wide-ranging coverage of the topic, *Bovine Genomics*, is an essential guide to the field. The basic and applied science will be of use to researchers, breeders, and advanced students.

Intracytoplasmic Sperm Injection Gianpiero D. Palermo 2018-01-02 This unique, comprehensive text on the male factor infertility experience centers on the current background, applications and techniques for intracytoplasmic sperm injection (ICSI), one of the more commonly utilized procedures in modern assisted reproduction for male infertility, offering insights into the rationale and indications for ICSI and providing an up-to-date discussion on male factor diagnostic tests and microsurgical techniques for ICSI itself. Topics covered include the role of reproductive genetics, the effects of paternal age, the assessment, development and selection of functional human spermatozoa (e.g., Comet assay), both naturally and in the laboratory, and the procedures by which these sperm are injected directly into an oocyte. Comparisons are made between efficacy rates of ICSI versus conventional IVF strategies, and clinical approaches to fertilization failures following ICSI are presented, and intracytoplasmic morphologically selected sperm injection (IMSI) is discussed in detail in a chapter of its own. Bringing together the latest evidence and written by international leaders in the field, *Intracytoplasmic Sperm Injection: Indications, Techniques and Applications* is a unique and accessible resource for reproductive endocrinologists, andrologists, geneticists and infertility practitioners and researchers alike.

Reproductive Genomics in Domestic Animals Zhihua Jiang 2011-06-17 *Reproductive Genomics in Domestic Animals* is a thorough examination of genomics in the livestock industry, encompassing genome sciences, genome biotechnology, and reproduction. Recent developments in molecular genetics and genomics have enabled scientists to identify and characterize genes contributing to the complexity of reproduction in domestic animals, allowing scientists to improve reproductive traits. Providing the livestock industry with essential tools for enhancing reproductive efficiency, *Reproductive Genomics in Domestic Animals* surveys the current status of reproductive genomes and looks to the future direction of research.

Making Girls and Boys Jane McCredie 2011 Is gender really as straightforward as we would like to think? What is it that makes a person a man or woman? Leading us on a journey from chromosomes to evolutionary psychology and through to the playground Jane McCredie explores these fascinating questions unfolding the story of gender.

Medaka Kiyoshi Naruse 2011-05-30 *Oryzias latipes*, known as medaka, is a model organism from East Asia. Breeding of this small, egg-laying freshwater teleost fish has long been popular among hobbyists in Japan. Now, as biological science has entered the genome era, the medaka provides significant advantages that make it one of the most valuable vertebrate models: a large collection of spontaneous mutants collected over a century, the presence of highly polymorphic inbred lines established over decades, and a recently completed genome sequence. This book is the first comprehensive monograph to cover a variety of medaka research. It opens with a historical view of medaka, followed by a series of research topics in the four major areas where the medaka is increasingly important: genomics, genetics, and resources; organogenesis and disease models; germ cells, sex determination, and reproduction; and evolution. Readers will find state-of-the-art information on medaka genetics and genomics such as the first isolation of active transposons in vertebrates, the influence of chromatin structure on sequence variation, fine QTL analysis, and versatile mutants as

human disease models.

Hormones, Brain and Behavior Online 2002-06-18 *Hormones, Brain, and Behavior*, Second Edition is a comprehensive work discussing the effect of hormones on the brain and, subsequently, behavior. This major reference work has 109 chapters covering a broad range of topics with an extensive discussion of the effects of hormones on insects, fish, amphibians, birds, rodents, and humans. To truly understand all aspects of our behavior, we must take every influence (including the hormonal influences) into consideration. Donald Pfaff and a number of well-qualified editors examine and discuss how we are influenced by hormonal factors, offering insight, and information on the lives of a variety of species. *Hormones, Brain, and Behavior* offers the reader comprehensive coverage of growing field of research, with a state-of-the-art overview of hormonally-mediated behaviors. This reference provides unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics. The topics cover an unusual breadth (from molecules to ecophysiology), ranging from basic science to clinical research, making this reference of interest to a broad range of scientists in a variety of fields. Available online exclusively via ScienceDirect. A limited edition print version is also available. Comprehensive coverage of a growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth ranging from molecules to ecophysiology, and from basic science to clinical research

The Evolution of the Human Placenta Michael L. Power 2012-11-01 Power and Schulkin reveal the amazing evolution of the human placenta—and in so doing show how each of our lives began. As the active interface of the most biologically intimate connection between two living organisms, a mother and her fetus, the placenta is crucial to human evolution and survival. Michael L. Power and Jay Schulkin explore the more than 100 million years of evolution that led to the human placenta and, in so doing, they help unravel the mysteries of human life's first moments. Starting with some of the earliest events that have influenced the path of placental evolution in mammals and progressing to the specifics of the human placenta, this book examines modern gestation within an evolutionary framework. Human beings are a successful species and our numbers have increased dramatically since our earliest days on Earth. However, human fetal development is fraught with poor outcomes for both the mother and fetus that appear to be, if not unique, far more common in humans than in other mammals. High rates of early pregnancy loss, nausea and vomiting during pregnancy, preeclampsia and related maternal hypertension, and preterm birth are rare or absent in other mammals yet not unusual in humans. Power and Schulkin explain why this apparent contradiction exists and address such topics as how the placenta regulates and coordinates the metabolism, growth, and development of both mother and fetus, the placenta's role in protecting a fetus from the mother's immune system, and placental diseases. In the process, they reveal the vital importance of this organ—which is composed mostly of fetal cells—for us as individuals and as a species.

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

Mammalian Sexuality Alan F. Dixson 2021-06-03 The first detailed account of post-copulatory sexual selection and the evolution of reproduction in mammals.

Marsupial Genetics and Genomics Paul D. Waters 2010-08-05 Marsupials belong to the Class Mammalia, sharing some features with other mammals, yet they also possess many unique features. It is their differences from the more traditionally studied mammals, such as mice and humans, that is of greatest value to comparative studies. Sequencing of genomes from two distantly related marsupials, the short grey-tailed opossum from South America and the Australian tammar wallaby, has launched marsupials into the genomics era and accelerated the rate of progress in marsupial research. With the current worldwide concern for the plight of the endangered Tasmanian devil, marsupial genetics and genomics research is even

more important than ever if this species is to be saved from extinction. This volume recounts some of the history of research in this field and highlights the most recent advances in the many different areas of marsupial genetics and genomics research.

Strickberger's Evolution Brian K. Hall 2011-06-07 Thoroughly updated and reorganized, Strickberger's Evolution, Fourth Edition, presents biology students with a basic introduction to prevailing knowledge and ideas about evolution, discussing how, why, and where the world and its organisms changed throughout history. Keeping consistent with Strickberger's engaging writing style, the authors carefully unfold a broad range of philosophical and historical topics that frame the theories of today including cosmological and geological evolution and its impact on life, the origins of life on earth, the development of molecular pathways from genetic systems to organismic morphology and function, the evolutionary history of organisms from microbes to animals, and the numerous molecular and populational concepts that explain the earth's dynamic evolution. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

The Causes and Consequences of Chromosomal Aberrations Ilan R. Kirsch 1992-12-21 The Causes and Consequences of Chromosomal Aberrations explores one of the most dramatic examples of genomic instability-chromosomal aberrations. It describes some of the more recent techniques used to map genes within the human genome, study chromosomal aberrations at the cellular level, and define the organization of the interphase nucleus. General overviews are provided to build a conceptual framework for understanding the generality and specificity of chromosomal aberrations. The Causes and Consequences of Chromosomal Aberrations also explores the role of recombinases and topoisomerases in the development of chromosomal aberrations. It contains studies of chromosomal aberrations, which offer separate instructive treatises on specific malignancies. The Causes and Consequences of Chromosomal Aberrations is useful to medical and graduate students, physicians, molecular biologists, and cytogeneticists. It will benefit anyone interested in the concepts, contributions, and development in the field of molecular cytogenetics.

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.

Epigenetics and Human Reproduction Sophie Rousseaux 2010-11-03 Epigenetics is a rapidly expanding field in medical and biological research which concerns heritable traits that are not attributable to changes in the DNA sequence. Epigenetic mechanisms play key roles in many biological processes, and it has become clear that their disruption can give rise to diverse pathologies in humans. Edited by preeminent experts, Sophie Rousseaux and Saadi Khochbin, this volume in the 'Epigenetics and Human Health' series discusses the role of epigenetics in human reproduction

Humans End Story Board Screenplay Everett C. Borders 2010-08-26

Becoming Female And Male Ramon Piñon Jr. 2018-08-31 *Becoming Female and Male: Our Extraordinary and Perilous Journey* focuses on critical aspects in the development and biology of our reproductive system. A wealth of information not readily available to the general reader is complemented with a rich assortment of historical perspectives and commentaries. It begins with the amazingly complex, seemingly miraculous processes that lead to the formation of the eggs and sperm, follows the fetal development of the genital tissues, the post-pubertal reproductive functions of females and males, the pubertal transition, and finally our reproductive twilight. The next section focuses on fertilization and implantation, birth and lactation, and exciting new studies relating the origins of chronic adult diseases to our pre-birth environment in the womb. The third section covers pregnancy loss and birth defects, while the final section reviews birth control methods, the causes of infertility and the new growth industry - assisted reproduction. In addition, three appendices supplement the main text and provide more detailed information about sex chromosomes, mutations, hormonal integration of the reproductive system, and disorders of sexual development.

Females Are Mosaics Barbara Migeon 2014 This is the only book about the X chromosome as a key to female development and the role of X-related factors in the etiology of sex differences in human disease. This new edition reflects research advances from the six years since the widely praised first edition.

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 groundbreaking 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

Sex Chromosome Specialization And Degeneration In Mammals

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