

Sex Determination Differentiation And Intersexuality In Placental Mammals

Monoclonal Antibodies - James W. Goding 1996-02-26

Monoclonal Antibodies now have applications in virtually all areas of biology and medicine, and much of the world's biotechnology industry has its foundations in the exploitation of this technology. The Third Edition of this well established book meets the needs of both newcomers to the area and experienced researchers, by providing an integrated treatment of both the production and application of monoclonal antibodies. As in previous editions, detailed and critical accounts of the theory, production, purification, fragmentation, storage and radiolabelling of monoclonal antibodies are given, along with descriptions of their use in antigen characterization, affinity chromatography and immunofluorescence. The present volume has been comprehensively updated to cover recent rapid advances, particularly with respect to the applications of molecular biology, the use of antibodies in cloning and heterologous expression of genes, immunohistology and phage display libraries. Since the previous edition, there has been a growing trend towards the replacement of procedures using radioactive isotopes, and the current edition incorporates these newer technologies. The text is oriented towards problems solving, and makes it easy to adapt each procedure to individual needs. Extensive cross-referencing, a glossary and a comprehensive index make this book an essential reference. This book will be vital both for laboratories already producing or using monoclonal antibodies, and for workers in many disciplines who are contemplating their use. Provides an integrated treatment of both the production and application of monoclonals in cell biology, biochemistry, and immunology Gives detailed and critical accounts of the theory, production, purification, storage, and relabelling of monoclonals, and their use in antigen characterization, affinity chromorography, and immunofluorescence Comprehensively updated to cover the rapid advances that have occurred since the publication of the Second Edition

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.

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.

The Genetics of the Pig - Max Frederick Rothschild 2011

The understanding of pig genetics and genomics has advanced significantly in recent years, creating fresh insights into biological processes. This comprehensive reference work discusses pig genetics and its

integration with livestock management and production technology to improve performance. Fully updated throughout to reflect advances in the subject, this new edition also includes new information on genetic aspects of domestication, colour variation, genomics and pig breeds, with contributions from international experts active in the field.

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.

Haines & Taylor Obstetrical and Gynaecological Pathology - Harold Fox 2003

Environmental Health Perspectives - 1998

Yen & Jaffe's Reproductive Endocrinology - Jerome F. Strauss, III MD, PhD 2013-09-13

Yen Jaffe's Reproductive Endocrinology helps you successfully diagnose and manage the spectrum of female and male reproductive system diseases, from impaired fertility, infertility, and recurrent pregnancy loss through problems of sexual development, puberty, menstrual disturbances, fibroids, endometriosis, and reproductive aging. This trusted endocrinology reference book is ideal for fellows, endocrinologists, or as a quick reference when making daily diagnostic and therapeutic decisions. It is just the resource you need to offer your patients the best possible reproductive care. "This new edition helps the reader to stay on top of recent developments. It is a must for subspecialists in reproductive medicine and a valuable source of information in the library of any department and clinical unit involved in reproductive medicine." Reviewed by Acta Obstetrica et Gynecologica Scandinavica February 2015 "It is a must for subspecialists in reproductive medicine and a valuable source of information in the library of any department and clinical unit involved in reproductive medicine." Reviewed by Acta Obstetrica et Gynecologica Scandinavica , March 2015 Get unmatched guidance you can trust, such as fresh insights into today's field and future advances, through the knowledge gleaned from worldwide fertility experts in reproductive medicine. Further your study of Reproductive Endocrinology with a list of suggested readings at the end of each chapter. Conveniently access the fully searchable text and view all of the images online at Expert Consult. Apply the latest reproductive endocrinology advances in basic and clinical science, including molecular, cellular, and genetic concepts, and grasp their relevance to pathophysiology, diagnosis, and therapy. Maximize fertility in women and men undergoing chemotherapy and other cancer treatments, and counsel patients on environmental factors affecting reproduction. Stay on top of recent developments including the impact of obesity on fertility; ovarian tissue banking; cryopreservation; pre-implantation genetic diagnosis; ovulation induction; and risks and treatments for steroid hormone-responsive cancers. View basic anatomic structures, endocrine processes, and cell function and dysfunction with absolute clarity through full-color illustrations and new images throughout. Confidently perform procedures through expanded coverage of reproductive and infertility surgery and online videos demonstrating key techniques.

Physiology of the Graafian Follicle and Ovulation - R. H. F. Hunter 2003-05

The development and selection of ovarian follicles is one of the most active areas of contemporary reproductive research. Relevant experimental work extends from laboratory rodents, across a wide range of domestic species, to human clinical studies, especially as related to problems of fertility and in vitro fertilisation. This 2003 volume provides comprehensive coverage of the field, integrating research findings from animal and human studies and condensing the vast published literature into a meaningful and digestible physiological account which highlights the key role played by the oocyte in influencing all stages of follicular development.

Encyclopedia of Reproduction: Ep-L - Ernst Knobil 1998

"The present work should serve as a convenient and comprehensive source of information encompassing all aspects of the subject of reproduction as it relates to the entire animal kingdom." -- Preface, p. xxxiii.

Paediatric and Adolescent Gynaecology - Adam H. Balen 2004-04-01

This book provides a multidisciplinary overview of developmental anomalies, disorders and intersex conditions. These are complex conditions that demand high standards of care and treatment by all healthcare professionals involved with the management of these psychological, medical and surgical problems. Contributions from leading international experts from a wide range of disciplines, aims to distil their wealth of expertise and to provide the best possible advice and recommendations for medical intervention. Issues such as the psychological well-being of the patient, the need for informed consent and the right to know one's diagnosis. Patients and their families expect high standards of care, communication and consultation, and this book will help doctors achieve this. Emphasising the multidisciplinary approach to healthcare, this is essential reading for specialists in paediatric and adolescent gynaecology, reproductive endocrinologists, paediatric and plastic surgeons, and clinical geneticists.

Darwinian Natural Right - Larry Arnhart 1998-01-01

This book shows how Darwinian biology supports an Aristotelian view of ethics as rooted in human nature. Defending a conception of "Darwinian natural right" based on the claim that the good is the desirable, the author argues that there are at least twenty natural desires that are universal to all human societies because they are based in human biology. The satisfaction of these natural desires constitutes a universal standard for judging social practice as either fulfilling or frustrating human nature, although prudence is required in judging what is best for particular circumstances. The author studies the familial bonding of parents and children and the conjugal bonding of men and women as illustrating social behavior that conforms to Darwinian natural right. He also studies slavery and psychopathy as illustrating social behavior that contradicts Darwinian natural right. He argues as well that the natural moral sense does not require religious belief, although such belief can sometimes reinforce the dictates of nature.

CNS Neurotransmitters and Neuromodulators - Trevor W. Stone 1996-03-27

As a volume in the series CNS Neurotransmitters and Neuromodulators, this text is destined to become a definitive reference. Well-known international authors have contributed up-to-date reviews covering a wide-range of interdisciplinary aspects of neuroactive steroid function. Specifically, this volume includes chapters dealing with the expression and properties of steroid receptors in the central nervous system (CNS); steroid interactions with amino acids, amines, and growth factors; electrophysiology; hypothalamic and feeding control; and the extremely topical issue of steroid influences on sexual differentiation of the brain. Neuroactive Steroids is an indispensable reference work for any researcher involved with steroids in the CNS, particularly in the areas of physiology, anatomy, neuropharmacology, neurochemistry, psychiatry, and molecular biology. In addition, it provides the perfect one-stop introduction for students.

Lucy's Legacy - Alison Jolly 2001

Takes a look at human evolution focusing on the long line of women and of female behavior that was to follow the age of the much-studied oldest human remains.

Sex Determination, Differentiation and Intersexuality in Placental Mammals - R. H. F. Hunter 1995-03-09

How do males become male and females become female? And what are the consequences if the decision is not incisive? Drawing upon interests in animal genetics and molecular biology, the author endeavours to answer these difficult yet fascinating questions. Originally published in 1995, this book describes the genetic determination of sex and examines how sexual organs are differentiated. Using examples of

intersexuality, chimaeras and asymmetries, the book describes the underlying molecular basis of sex determination and sexual differentiation, and focuses on the critical role of the rate of embryonic development in these vital processes. Male precocity is a recurrent theme, as is the involvement of Sertoli cells and their secretion of anti-Müllerian hormone. An invaluable book for reproductive physiologists, geneticists and developmental biologists whose interests may extend from animal science through veterinary medicine to human clinical medicine.

Pathology and Epidemiology of Cancer - Massimo Loda 2016-09-01

This book integrates the disciplines of cancer pathology and epidemiology to provide a synergistic and complementary approach to understanding the molecular mechanisms of cancer. This book provides relevant information on the diagnostic, prognostic and predictive molecular pathology of cancer. Epidemiological studies, including descriptive epidemiology, risk factors and molecular mechanisms of disease inform on the etiology and progression of cancer. The text concentrates on major cancers that are currently prevalent and those for which substantial molecular, pathological and epidemiological data is available. Each section is designed to provide an overview of that cancer type in terms of basic biology, review the current epidemiological data surrounding that cancer type and provide information on common practices and challenges related to the molecular pathology of that cancer type. Several relevant techniques in molecular pathology, which facilitate diagnosis and treatment are also explored. Pathology and Epidemiology of Cancer provides a succinct and comprehensive overview of multiple cancer types to guide clinicians during patient care and to guide scientists for innovations in research. It represents an integral resource for pathologists, epidemiologists, medical students as well as translational, basic and clinical science researchers who are all working to progress the field of cancer in terms of diagnosis, treatment and prevention.

Blaustein's Pathology of the Female Genital Tract - Ancel Blaustein 2002

Since the publication of the first edition in 1977, Blaustein's Pathology of the Female Genital Tract has consolidated its position as the leading textbook of gynecological pathology. An essential reference for all pathologists and residents, this thoroughly updated fifth edition includes more than 350 new illustrations and 28 revised chapters. Discussion of each specific entity is organized to include general information, etiology, and epidemiology, followed by clinical features, pathologic findings, differential diagnosis, clinical behavior, and treatment. This clear organization is applied throughout the book and allows the reader to quickly access expert information in every chapter.

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.

Robboy's Pathology of the Female Reproductive Tract - Stanley J. Robboy 2009-01-01

Thoroughly revised and updated to bring you state-of-the-art assistance in diagnosing pathologies of the female reproductive tract. It covers more than 1100 common, rare, benign, and malignant lesions, and tackles the questions so often asked and not answered elsewhere. All entities are illustrated by well-chosen photographs of outstanding quality. The updated text provides the latest advances in immunohistochemistry, molecular biology, and cytogenetics, as well as the most current concepts, classification and staging systems for all diseases and disorders of the female genital tract. "Road maps" at the beginning of each chapter help you navigate the book more quickly. Integrates histopathologic features with data from ancillary techniques such as immunohistochemistry and cytogenetics and discussions of the relevant clinical manifestations of gynecological diseases.

Knobil and Neill's Physiology of Reproduction - Ernst Knobil 2006

The 3rd edition, the first new one in ten years, includes coverage of molecular levels of detail arising from the last decade's explosion of information at this level of organismic organization. There are 5 new Associate Editors and about 2/3 of the chapters have new authors. Chapters prepared by return authors are extensively revised. Several new chapters have been added on the topic of pregnancy, reflecting the vigorous investigation of this topic during the last decade. The information covered includes both human and experimental animals; basic principles are sought, and information at the organismic and molecular

levels are presented. *The leading comprehensive work on the physiology of reproduction*Edited and authored by the world's leading scientists in the field*Is a synthesis of the molecular, cellular, and

organismic levels of organization*Bibliographies of chapters are extensive and cover all the relevant literature

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