
Chapter 13 The Human Reproductive System

Reproductive Technologies in Animals

Environment, Power, and Society for the Twenty-First Century

Scientific and Medical Aspects of Human Reproductive Cloning

Medical Terminology

Human Reproductive and Prenatal Genetics

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Textbook of Human Reproductive Genetics

*Chapter 13 The Human
Reproductive System*

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**Reproductive Technologies in
Animals** Academic Press

Comparative Anatomy and Histology: A Mouse and Human Atlas is aimed at the new mouse investigator as well as medical and veterinary pathologists who need to expand their knowledge base into comparative anatomy and histology. It guides the reader through normal mouse anatomy and histology using

direct comparison to the human. The side by side comparison of mouse and human tissues highlight the unique biology of the mouse, which has great impact on the validation of mouse models of human disease. Print + Electronic product - E-book available on Elsevier's Expert Consult platform- through a scratch-off pin code inside the print book, customers will be able to access the full text online, perform quick searches, and download images at expertconsult.com Offers the first comprehensive source for comparing

human and mouse anatomy and histology through over 600 full-color images, in one reference work Experts from both human and veterinary fields take readers through each organ system in a side-by-side comparative approach to anatomy and histology - human Netter anatomy images along with Netter-style mouse images Enables human and veterinary pathologists to examine tissue samples with greater accuracy and confidence Teaches biomedical researchers to examine the histologic changes in their mutant mice Environment, Power, and Society for the Twenty-First Century Springer Science & Business Media

The last step in the IVF treatment cycle, embryo transfer, is also the process with the highest failure rate. No matter how

good the laboratory technique is, a successful pregnancy will not be achieved without meticulous preparation of the uterus to accept the embryo. This book reviews the scientific evidence on endometrial receptivity, including histological, hormonal, biochemical, and immunological factors. Practical and concise, it supports gynecologists and embryologists to make evidence-based decisions that can influence the success rates of implantation and live births. Part of a series of books offering treatments and strategies for fertility and conception to optimize IVF outcomes, this volume is for all clinicians and embryologists working in reproductive medicine.

Scientific and Medical Aspects of Human Reproductive Cloning John Wiley & Sons

Howard T. Odum possessed one of the most innovative minds of the twentieth century. He pioneered the fields of ecological engineering, ecological economics, and environmental accounting, working throughout his life to better understand the interrelationships of energy, environment, and society and their importance to the well-being of humanity and the planet. This volume is a major modernization of Odum's classic work on the significance of power and its role in society, bringing his approach and insight to a whole new generation of students and scholars. For this edition Odum refines his original theories and introduces two new measures: energy and transformity. These concepts can be used to evaluate and compare systems

and their transformation and use of resources by accounting for all the energies and materials that flow in and out and expressing them in equivalent ability to do work. Natural energies such as solar radiation and the cycling of water, carbon, nitrogen, and oxygen are diagrammed in terms of energy and energy flow. Through this method Odum reveals the similarities between human economic and social systems and the ecosystems of the natural world. In the process, we discover that our survival and prosperity are regulated as much by the laws of energetics as are systems of the physical and chemical world. Medical Terminology Elsevier

Our knowledge of reproductive biology has increased enormously in recent years on cellular, molecular, and genetic

levels, leading to significant breakthroughs that have directly benefitted in vitro fertilization (IVF) and other assisted reproductive technologies (ART) in humans and animal systems. *Animal Models and Human Reproduction* presents a comprehensive reference that reflects the latest scientific research being done in human reproductive biology utilizing domestic animal models. Chapters on canine, equine, cow, pig, frog, and mouse models of reproduction reflect frontier research in placental biology, ovarian function and fertility, non-coding RNAs in gametogenesis, oocyte and embryo metabolism, fertilization, cryopreservation, signal transduction pathways, chromatin dynamics, epigenetics, reproductive aging, and inflammation. Chapters on

non-human primate models also highlight recent advancements into such issues as human in vitro fertilization (IVF) and assisted reproductive technologies (ART). This book offers animal scientists, reproductive biology scientists, clinicians and practitioners, invaluable insights into a wide range of issues at the forefront of human reproductive health.

Human Reproductive and Prenatal Genetics Academic Press

Human Reproductive and Prenatal Genetics presents the latest material from a detailed molecular, cellular and translational perspective. Considering its timeliness and potential international impact, this all-inclusive and authoritative work is ideal for researchers, students, and clinicians

worldwide. Currently, there are no comprehensive books covering the field of human reproductive and prenatal genetics. As such, this book aims to be among the largest and most useful references available. Features chapter contributions from leading international scientists and clinicians Provides in-depth coverage of key topics in human reproductive and prenatal genetics, including genetic controls, fertilization and implantation, in vitro culture of the human embryo for the study of post-implantation development, and more Identifies how researchers and clinicians can implement the latest genetic, epigenetic, and -omics based approaches

Human Reproductive Biology Elsevier
A complete guide to sperm retrieval

methods performed for men with azoospermia, aimed at andrologists and male fertility specialists.

Atlas of Histology of the Juvenile Rat
Elsevier

Reproductive Biology of the Great Apes: Comparative and Biomedical Perspectives discusses the great ape reproduction. The book opens with the menstrual cycle of apes as a good foundation for the subject areas that follow. Accordingly, Chapter 2 focuses on the endocrine changes during the stage of pregnancy among apes, specifically the hormonal changes in chimpanzee. Chapter 3 deals mainly on the condition postpartum amenorrhea. In Chapter 4, the reproductive and endocrine development – from fetal development, infancy, juvenile, to puberty – is

discussed. Chapters 5 and 6 thoroughly discuss the female and male ape's genital tract and their secretions. The sole topic of Chapter 7 deals mainly with the comparative aspects of ape steroid hormone metabolism. Meanwhile, Chapter 8 tackles laboratory research on apes' sexual behavior. The succeeding chapters talk about the chimpanzee, gorilla, and orangutan reproduction in the wild. Chapters 12 and 13 basically look upon the behaviors of the great apes, specifically intermale competition and sexual selection. The next chapters (14 and 15) look at the necessity of breeding and managing apes in captivity to ensure their continued survival. Lastly, Chapter 16 highlights the significance and great value of apes as models and comparative study in human

reproduction. This book will be of great use to human physiologists, comparative anatomists and zoologists, primatologists, ape breeders, and biomedical scientists.

The Basics Cambridge University Press
The book presents a detailed assessment of the health science of lead and the human health risk assessment models for lead's human health impacts, followed by an account of various regulatory efforts in the United States and elsewhere to eliminate or reduce human toxic exposures to lead. The science of lead as presented here covers releases of lead into the environment, lead's movement through the environment to reach humans who are then exposed, and the spectrum of toxic effects, particularly low-level toxic

effects, on the developing central nervous system of the very young child. The section on human health risk assessment deals with quantifying not only the dose-response relationships that underlie toxic responses to lead in sensitive populations but also with the likelihood of toxic responses vis-à-vis environmental lead at some level of exposure. This section includes a treatment of computer models of lead exposure, particularly those that use lead in whole blood as a key measure. Various models convert lead intake via various body compartments into measures of body lead burden. Such measures are then directly related to severity of injury. The final section of the book deals with past and present regulatory efforts to control lead

releases into the human environment. Current control efforts present a mixed picture. The most problematic issue is the continued presence of lead paint in older housing and lead in soils of urban and mining industry communities. Comprehensive assessment of the three major facets of the public health problem of lead: the voluminous science, the risk assessment approaches, and approaches to controlling lead as a public health problem. Integration of the above three elements to provide a coherent whole Provides a single source of information that will be extremely valuable to all professionals working in areas impacted by this toxic substance Comparative and Biomedical Perspectives World Health Organization Reproductive Immunology: Basic

Concepts gives a holistic insight into the understanding of the complex interactions between the maternal immune system and the fetal/placental unit necessary for the success of pregnancy. This interaction is critical for the support of the human fetal semiallograft and the protection against infections. The book covers various topics such as B cells, macrophages, T cells, discussion on fetal signals and their impact on maternal reproductive cells such as endometrial cells, mast cells, and the role of fetal Hofbauer cells, the immune regulatory role of glucocorticoids, and many other novel topics within the field of reproductive immunology. Edited and written by experts in the field, this book introduces the up-to-date knowledge of the role of

the immune system during pregnancy and provides the necessary background to understand pregnancy complications associated with alterations in the functioning of the immune system. The book provides a complete discussion on the immunological aspects of pregnancy and serves as a great tool for research scientists, students, reproductive immunologists and OBGYNs. Shows the detailed evaluation of the knowledge related to each immune cell type in the pregnant and not pregnant uterus. Evaluates each immune cell type and its function during specific reproductive events. Provides the biological background for understanding the clinical aspects that will be discussed in subsequent volumes in the series Gross Anatomy: The Big Picture BoD –

Books on Demand

Written by experts in their respective fields, this book reviews the expanding knowledge concerning the mechanisms regulating male reproduction at the molecular and cellular levels. It covers the development of the testes and regulatory controls for spermatogenesis and steroidogenesis, and it considers aspects of Sertoli cell function. Areas of emphasis include communication between the various cell types involved in reproduction by hormone and growth factors and the mechanisms by which these factors regulate gene expression. A number of mammalian systems, including humans, are covered. The carefully selected authors provide a clear synopsis of the concepts in each area as well as the latest references,

enabling the reader to investigate the topic further. This book is of interest to those seeking an understanding of the regulatory mechanisms in male reproduction and is written for the graduate and postgraduate levels. Key Features * Provides up-to-date reviews of the molecular and cellular biology of male reproduction * Includes chapters on the developmental biology of the testes * Links conventional hormonal control of testicular function with the evolving role of growth factors and proto-oncogenes I Am the Other Harvard University Press Part of the renowned Donald School series, this book is a comprehensive guide to the diagnosis and management of reproductive and gynaecological endocrinology disorders. The book begins with an overview of ovulation and

investigation and causes of female infertility including anovulation, tubal block, endometriosis and congenital uterine anomalies. The following chapters discuss ovarian stimulation and assisted reproductive techniques. The second half of the book covers causes and management of male infertility, and concludes with chapters on recurrent miscarriage, gamete banking, and assessment of early pregnancy. Authored by recognised experts in the field, the text is further enhanced by clinical photographs, illustrations, tables and flowcharts. Key points
 Comprehensive guide to diagnosis and management of reproductive and gynaecological endocrinology disorders
 Part of renowned Donald School series
 Covers investigation, causes and

management of both female and male infertility Authored by recognised experts in the field

The -Omics Revolution and Its Impact on Human Reproductive

Medicine Cambridge University Press
 Infertility affects approximately 15% of couples of reproductive age. High live birth rates rely on many advanced technologies in infertility treatment, including more accurate clinical diagnosis and patient management as well as state-of-the-art in vitro fertilization (IVF) technologies. This book discusses infertility and infertility treatments such as embryo implantation, non-invasive preimplantation genetic diagnosis (PGT), oocyte cryopreservation, cryopreservation of small numbers of

sperm, and embryo culture technologies. It delivers new information and data valuable to clinicians, embryologists, and others in infertility treatment.

Reproductive Immunology Jones & Bartlett Publishers

WHO Classification of Tumours of Female Reproductive Organs is the sixth volume in the 4th Edition of the WHO series on histological and genetic typing of human tumours. This authoritative, concise reference book provides an international standard for oncologists and pathologists and will serve as an indispensable guide for use in the design of studies monitoring response to therapy and clinical outcome. Diagnostic criteria, pathological features, and associated genetic alterations are described in a strictly disease-oriented manner.

Sections on all recognized neoplasms and their variants include new ICD-O codes, epidemiology, clinical features, macroscopy, pathology, genetics, and prognosis and predictive factors. The book, prepared by 91 authors from 19 countries, contains more than 400 colour images and tables, and more than 2100 references

With Other Advanced Micromanipulation Techniques to Edit the Genetic and Cytoplasmic Content of the Oocyte
Kaplan Publishing

The Reproductive System at a Glance is a comprehensive guide to normal reproductive biology and associated pathophysiology in both sexes. Concise, easy to read, and clearly structured, the double-page spreads progress from basic science to clinical abnormalities,

and covers endocrine production and action, within one short volume. Chapters on disorders summarise epidemiology, pathophysiology, diagnosis and treatment. This new edition of *The Reproductive System at a Glance*:

- Is fully revised and updated throughout to reflect recent developments in practice
- Now features histological and pathological slides to complement the “at a glance” style explanatory illustrations
- Now features radiologic studies to supplement the text in selected chapters
- Contains more detailed coverage of maternal adaptations to pregnancy
- Includes a companion website at www.ataglanceseries.com/reproduction featuring self-assessment multiple choice questions, bonus single answer

questions and flashcards *The Reproductive System at a Glance* is an ideal guide for students studying both endocrine and reproductive subjects, and teaches the foundation concepts for the obstetrics and gynaecology rotation, helping health professionals and students achieve a broad and practical understanding of the topic.

[Reproductive Epidemiology](#) Cambridge University Press

Reproductive Technologies in Animals provides the most updated and comprehensive knowledge on the various aspects and applications of reproductive technologies in production animals as well as companion, wild, exotic, and laboratory animals and birds. The text synthesizes historical information and recent discoveries, while

dealing with economical and geographical issues related to the implementation of the same technologies. It also presents the effects of reproductive technology implementation on animal welfare and the possible threat of pathogen transmission. **Reproductive Technologies in Animals** is an important resource for academics, researchers, professionals in public and private animal business, and students at the undergraduate and graduate levels, as it gives a full and detailed first-hand analysis of all species subjected to the use of reproductive technologies. Provides research from a team of scientists and researchers whose expertise spans all aspects of animal reproductive technologies. Addresses the use of reproductive

technologies in a wide range of animal species. Offers a complete description and historical background for each species described. Discusses successes and failure as well as future challenges in reproductive technologies.

Concepts of Biology Greenwood Publishing Group

Atlas of Histology of the Juvenile Rat should be of interest to toxicologic pathologists, toxicologists, and other biological scientists who are interested in the histomorphology of juvenile rats. For several decades the laboratory rat has been used extensively in nonclinical toxicology studies designed to detect potential human toxicity of drugs, agrochemicals, industrial chemicals, and environmental hazards. These studies traditionally have involved young adult

rats that are 8-10 weeks of age as studies are started. It is becoming increasingly apparent that children and young animals may have different responses to drug/chemical exposures, therefore, regulatory agencies are emphasizing toxicology studies in juvenile animals. While the histologic features of organs from young adult and aged laboratory rats are well known, less is known about the histologic features of organs from juvenile rats. Final histologic maturity of many organs is achieved postnatally, thus immature histologic features must be distinguished from chemical- or drug-related effects. While this postnatal organ development is known to exist as a general concept, detailed information regarding postnatal histologic development is not readily

available. The Atlas includes organs that are typically sampled in nonclinical toxicology studies and presents the histologic features at weekly intervals, starting at birth and extending through postnatal day 42. Written and edited by highly experienced, board-certified toxicologic pathologists Includes more than 700 high-resolution microscopic images from organs that are typically examined in safety assessment toxicology studies Detailed figure legends and chapter narratives present the salient features of each organ at each time interval Figures are available for further study via Elsevier's Virtual Microscope, which allows viewing of microscopic images at higher magnification Valuable resource for toxicologic pathologists who are

confronted with interpretation of lesions in juvenile rats in situations where age-matched concurrent controls are not available for comparison, e.g., with unscheduled decedents. Figures are available for further study on ScienceDirect with Virtual Microscope, which allows viewing of microscopic images at higher magnification.

[WHO Classification of Tumours of Female Reproductive Organs](#) John Wiley & Sons

Get the BIG PICTURE of Gross Anatomy in the context of healthcare – and zero-in on what you really need to know to ace the course and board exams! Gross Anatomy: The Big Picture is the perfect bridge between review and textbooks. With an emphasis on what you truly need to know versus “what’s nice to know,” it features 450 full-color

illustrations that give you a complete, yet concise, overview of essential anatomy. The book’s user-friendly presentation consists of text on the left-hand page and beautiful full-color illustrations on the right-hand page. In this way, you get a “big picture” of anatomy principles, delivered one concept at a time -- making them easier to understand and retain. Striking the perfect balance between illustrations and text, Gross Anatomy: The Big Picture features: High-yield review questions and answers at the end of each chapter. Numerous summary tables and figures that encapsulate important information. 450 labeled and explained full-color illustrations. A final exam featuring 100 Q&As. Important clinically-relevant concepts called to your attention by

convenient icons Bullets and numbering that break complex concepts down to easy-to-remember points

Basic Science and Therapeutic Potential

Jaypee Brothers Medical Publishers

Examination of the environmental, technological and ethical aspects of human reproductive biology.

Clinical Ethics at the Crossroads of Genetic and Reproductive Technologies

Academic Press

This acclaimed text has been fully revised and updated, now incorporating issues including aging of the reproductive system, and updates on the chapters on conception and Gamete Transport and Fertilization, and Pregnancy. Human Reproductive Biology, Third Edition emphasizes the biological and biomedical aspects of

human reproduction, explains advances in reproductive science and discusses the choices and concerns of today.

Generously illustrated in full color, the text provides current information about human reproductive anatomy and physiology. The ideal book for courses on human reproductive biology - includes chapter introductions, sidebars on related topics of interest, chapter summaries and suggestions for further reading. All material completely updated with the latest research results, methods, and topics now organized to facilitate logical presentation of topics

New chapters on Reproductive Senescence, Conception: Gamete Transport, Fertilization, Pregnancy: Maternal Aspects and Pregnancy: Fetal Development Full color illustrations

Stevens & Lowe's Human Histology - E-Book National Academies Press
This book brings together genetics, reproductive biology and medicine for an integrative view of the emerging specialism of reproductive genetics.

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