
Biology Of Human Reproduction

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Biology of Human Reproduction
Sterling Publishing Company

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.

Reproductomics Oxford University Press
A Scientific Book Club selection, this comprehensive account of the nature and function of the hormones in the processes of sex and reproduction. Originally published in 1942. The Princeton Legacy Library uses the latest

print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Human Reproduction and Developmental Biology Routledge

Within twenty, maybe forty, years most people in developed countries will stop having sex for the purpose of reproduction. Instead, prospective parents will be told as much as they wish

to know about the genetic makeup of dozens of embryos, and they will pick one or two for implantation, gestation, and birth. And it will be safe, lawful, and free. In this work of prophetic scholarship, Henry T. Greely explains the revolutionary biological technologies that make this future a seeming inevitability and sets out the deep ethical and legal challenges humanity faces as a result. "Readers looking for a more in-depth analysis of human genome modifications and reproductive technologies and their legal and ethical implications should strongly consider picking up Greely's *The End of Sex and the Future of Human Reproduction*...[It has] the potential to empower readers to make informed decisions about the implementation of advancements in

genetics technologies.” —Dov Greenbaum, *Science* “[Greely] provides an extraordinarily sophisticated analysis of the practical, political, legal, and ethical implications of the new world of human reproduction. His book is a model of highly informed, rigorous, thought-provoking speculation about an immensely important topic.” —Glenn C.

Altschuler, *Psychology Today*
Human Fertility Behavior in
 Biodemographic Perspective John Wiley & Sons

Awarded the W. W. Howells Award for the Outstanding Book in Biological Anthropology, this volume presents a comprehensive, integrated, and up-to-date overview of the major physiological and behavioral factors affecting human reproduction. In attempting to identify

the most important causes of variation in fertility within and among human populations, Wood summarizes data from a wide range of societies. Trained as an anthropologist as well as a demographer, he devotes special attention to so-called “natural fertility” populations, in which modern contraceptives and induced abortion are not used to limit reproductive output. Such an emphasis enables him to study the interaction of biology and behavior with particular clarity. The volume weaves together the physiological, demographic, and biometric approaches to human fertility in a way that will encourage future interdisciplinary research. Instead of offering a general overview, the focus is to answer one question: Why does fertility and the

number of live births vary from couple to couple within any particular population, and from population to population across the human species as a whole? Topics covered include ovarian function, conception and pregnancy, intrauterine mortality, reproductive maturation and senescence, coital frequency and the waiting time to conception, marriage patterns and the initiation of reproduction, the fertility-reducing effects of breastfeeding, the impact of maternal nutrition on reproduction, and reproductive seasonality. This unique combination of comprehensive subject matter and an integrated analytical approach makes the book ideally suited both as a graduate-level textbook and as a reference work.

The Oxford Handbook of Evolution,

Biology, and Society Basic Books (AZ)
The *Developmental Biology of Reproduction* documents the proceedings of the 33rd symposium of the Society for Developmental Biology. Reproductive Biology was selected as the main theme of the symposium. The symposium aimed to draw center attention on basic aspects of reproduction in both plants and animals in the hope of stimulating research that might provide the necessary foundation for effective, practical control of human reproduction. Five areas were selected for emphasis: the formation of eggs and sperm; the activation of the egg to develop into an embryo; the genetic and biochemical events underlying the early development of the embryo; the hormonal controls operating in the

reproductive process; and the general control of implantation and growth of the mammalian embryo in the uterus.

Thirteen reports were given by distinguished researchers in each of these areas. All biologists interested in a broad understanding of problems of reproduction will find this symposium interesting and important for their own work.

Dynamics of Human Reproduction

Academic Press

In the space of one generation major changes have begun to take place in the field of human reproduction. A rapid increase in the control of fertility and the understanding and treatment of sexual health issues have been accompanied by an emerging threat to reproductive function linked to increasing

environmental pollution and dramatic changes in lifestyle. Organised around four key themes, this book provides a valuable review of some of the most important recent findings in human reproductive ecology. Major topics include the impact of the environment on reproduction, the role of physical activity and energetics in regulating reproduction, sexual maturation and ovulation assessment and demographic, health and family planning issues. Both theoretical and practical issues are covered, including the evolution and importance of the menopause and the various statistical methods by which researchers can analyse characteristics of the menstrual cycle in field studies.

Animal Models and Human Reproduction

John Wiley & Sons

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

Exploring the Biological Contributions to Human Health

Academic Press

Human Reproductive Biology focuses on the processes, concerns, and trends in human reproduction. Divided into four parts with 19 chapters, the book starts by tracing the history of human reproduction biology and the questions and choices involved. The first part focuses on the male and female reproductive systems. The text notes the different organs involved in reproduction, including the penis, scrotum, vagina, oviducts, and mammary glands. The book discusses sexual development and differentiation,

particularly noting the variance of sex ducts and glands, external genitalia, and disorders of sexual development and determination. The text also looks at puberty. Concerns include gonadal changes from birth to puberty; mechanisms that influence puberty; and puberty and psychosocial adjustment. The second part deals with menstrual cycle, fertilization, pregnancy, labor, and birth. Some of the concerns include length of menstrual cycle; absence of menstruation; transport of sperm and ovum in the oviduct; and semen release. The text also highlights labor and birthing processes as well as the relationship of neonates and parents. The third part looks at the medical aspects of human reproduction, infertility, and sexually transmitted

diseases. Concerns include contraception, abortion, herpes genitalis, and vaginitis. The text folds with discussions on human sexual behavior, population growth, and family planning. Concerns include sexual dysfunction; the effects of overpopulation; and population control. The book is a vital source of data for readers interested in human reproduction.

Does Sex Matter? Human Reproductive Biology

Despite recent advances in our understanding of the genetic basis of human behavior, little of this work has penetrated into formal demography. Very few demographers worry about how biological processes might affect voluntary behavior choices that have demographic consequences even though

behavioral geneticists have documented genetics effects on variables such as parenting and divorce. *Offspring: Human Fertility Behavior in Demographic Perspective* brings together leading researchers from a wide variety of disciplines to review the state of research in this emerging field and to identify promising research directions for the future.

Human Reproductive Biology Elsevier

This text presents human reproduction from the biological point of view. It is most appropriate for use by non-science students who would like a biological understanding of human reproduction. The three parts of the book may be studied in whatever sequences the instructor desires. Part I contains topics on human inheritance and

biotechnology. Part II has in depth coverage of fertilization, and the major biological events of embryonic and fetal development. In Part III, the evolution of sexual reproduction is presumed to have increased biological fitness.

Biology of Human Reproduction

Cambridge University Press

By capturing the latest developments in this dynamic field - including cloning, gene therapy, and assisted reproduction - Ramón Piñón has made sure that his textbook is the most up-to-date and useful introduction to human reproductive biology available. Although its emphasis is on biology, it combines a rich assortment of comparative historical and literary notes with a contemporary inquiry into human sexuality.
Concepts of Biology National Academies

Press

Human Reproductive Biology Academic Press

Hormones in Human Reproduction

Oxford University Press, USA

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 Evolution and Future of Human Reproduction Carolina Biological Supply Company

Bioenvironmental Issues Affecting Men's Reproductive and Sexual Health is structured into two parts related to men's reproductive and sexual health with eight sections designed to enable a logical flow of such knowledge. The book is focused on the biology of key organs involved in male reproduction and the environmental influences affecting their functions with particular emphasis on clinical aspects. Individual chapters within the book range from basic to

translational aspects, but all hold clinical relevance. This is an essential reference for those working and learning in the field of human reproduction, reproductive toxicology and environmental influences on reproductive and sexual health. Brings together the leading authorities working in the field of male reproduction and sexual health and how the environment affects these issues. Provides guidelines and reference values of various reproductive hormones, semen parameters, inclusion/exclusion criteria for clinical trials. Discover the most efficient methods by which to design clinical protocols for sperm safety studies and reproductive toxicology trials.

Human Reproduction Biology Gulf

Professional Publishing

The fourth edition of *Human Reproductive Biology*—winner of a 2015 Textbook Excellence Award (Texty) from The Text and Academic Authors Association—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. This expansive text covers the full range of topics in human reproduction, from the biology of male and female systems to conception, pregnancy, labor and birth. It goes on to cover issues in fertility and its control, population growth and family planning,

induced abortion and sexually transmitted diseases. This is the ideal book for courses on human reproductive biology, with chapter introductions, sidebars on related topics, chapter summaries and suggestions for further reading. Winner of a 2015 Texty Award from the Text and Academic Authors Association Beautifully redrawn full-color illustrations complement completely updated material with the latest research results, and clear, logical presentation of topics Covers the basic science of reproduction—endocrinology, anatomy, physiology, development, function and senescence of the reproductive system—as well as applied aspects including contraception, infertility and diseases of the reproductive system New companion

website features full-color illustrations as PowerPoint and jpeg files for both professors and students to use for study and presentations

Human Reproduction Cambridge University Press

A primatologist explores the mystery of the origins of human reproduction, explaining that understanding the evolutionary past can provide insight into what worked, what didn't, and what it all means for the future of mankind.

Offspring Harvard University Press

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary

knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors

and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Biology, Biometry, Demography John Wiley & Sons

The proposed book on progress in human reproduction will focus on recent developments and new approaches to study egg and sperm cells and embryo development and it will address the increasing demand for in vitro fertilization (IVF) and assisted

reproductive technologies (ART) to overcome infertility problems that are encountered by an increasing number of couples worldwide. It will include 30-40 chapters written by experts in their specific fields to provide information on in vitro sperm and egg preparations; in vitro oocyte maturation; in vitro fertilization; in vivo and in vitro development of spermatozoa and oocytes; assessment of sperm and oocyte quality; cell and molecular biology of sperm and egg cells; cryopreservation of sperm, eggs, embryos, and reproductive tissue; Assisted Reproductive Technologies (ART) including intracytoplasmic sperm injection (ICSI); pre-implantation development; post-implantation development; genetic and epigenetic

considerations; production of embryonic stem cells for patient-specific therapies; microinjection of specific factors for molecular therapies; and others.

The Biology of Human Reproduction
Princeton University Press

Physiology of Human Reproduction provides students with a concise and accessible overview of more than 200 vital concepts, from the basic physiology of the male and the nonpregnant female, to fertilization, embryonic and fetal growth, labor, lactation, and more. Presented in a readable style, key terms are highlighted throughout the main text to enable students to quickly find a concept and read the appropriate information. Whether reading the book from cover to cover, or using a focused approach to learn about specific

concepts, readers will find this textbook to be an invaluable tool for increasing their understanding of human reproduction. An essential companion for standard Anatomy and Physiology courses, this student-friendly textbook: Covers physiology of the male, the physiology of the nonpregnant female, pregnancy and lactation, and age-related changes such as menopause Discusses pregnancy, birth control, and the reproductive system in childhood, adolescence, and puberty Describes the anatomy, physiology, and phases of the human sexual response Explains genetic conditions and disorders including androgen insensitivity syndrome and Kallman's syndrome Physiology of Human Reproduction is a must-have learning guide for students in the

medical and life sciences, including medicine, nursing, biology, physiology, and biomedicine, as well as those in courses covering human reproduction and pregnancy.

Biology of Human Reproduction

Elsevier

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