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# Knobil And Neill S Physiology Of Reproduction

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The GnRH Neuron and its Control  
 Hormonal Regulation of Spermatogenesis  
 Cancer and Sexual Health  
 Equine Breeding Management and Artificial Insemination  
 Endocrinology  
 Clinical Gynecology  
 Fundamentals of Male Infertility  
 Nonhuman Primates I  
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 Environmental Impacts on Reproductive Health and Fertility  
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**The GnRH Neuron and its Control** Springer  
 Science & Business Media  
 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\* Bibliographics of chapters are extensive and cover all the relevant literature  
*Hormonal Regulation of Spermatogenesis*  
 Cambridge University Press  
 This monograph explains the physiological, biochemical and behavioral processes of male bat reproduction. Chapters cover spermatogenesis, sperm ultrastructure, reproductive homeostasis, apoptotic processes, sperm maturation, sperm storage in female bats, and sexual selection processes. The volume also

presents studies focused on the reproductive physiology of Mexican cave bat species. This monograph is a suitable reference for undergraduate and postgraduate students as well as researchers interested in chiropteran reproductive biology.  
*Cancer and Sexual Health* Academic Press  
 A panel of leading experts integrate the latest findings from basic and clinical science to create a comprehensive treatment of the processes by which the brain acts as an endocrine organ, not only to control hormonal functions, but also to maintain homeostasis and regulate behavior. The authors-recognized both as leaders in their fields and as skilled teachers-provide systematic coverage of the analytical, anatomical, functional, clinical, and pathological aspects of neuroendocrinology. Topics range from

the interactions between the nervous and endocrine systems to the regulation of reproduction, development, metabolism, fluid balance, and biological rhythms. *Neuroendocrinology in Physiology and Medicine* offers an unprecedented marriage of clinical and basic knowledge that has been missing from classical neuroscience, endocrinology, and physiology texts. It will teach today's medical students and serve researchers as a valuable reference to this rapidly growing field.

#### **Equine Breeding Management and Artificial Insemination** Springer Nature

The success of Assisted Reproductive Technology is critically dependent upon the use of well optimized protocols, based upon sound scientific reasoning, empirical observations and evidence of clinical efficacy. Recently, the treatment of infertility has experienced a revolution, with the routine adoption of increasingly specialized molecular biological techniques and advanced methods for the manipulation of gametes and embryos. This textbook – inspired by the postgraduate degree program at the University of Oxford – guides students through the multidisciplinary syllabus essential to ART laboratory practice, from basic culture techniques and micromanipulation to laboratory management and quality assurance, and from endocrinology to molecular biology and research methods. Written for all levels of IVF practitioners, reproductive biologists and technologists involved in human reproductive science, it can be used as a reference manual for all IVF labs and as a textbook by undergraduates, advanced students, scientists and professionals involved in gamete, embryo or stem cell biology.

**Endocrinology** Cambridge University Press  
The Fourth Edition of Knobil & Neill continues to serve as a reference aid for research, to provide the historical context to current research, and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction. In the decade since the publication of the last edition, the study of reproductive physiology has undergone monumental changes. Chief among these advances are in the areas of stem cell development, signaling pathways, the role of inflammation in the regulatory processes in the various tissues, and the integration of new animal models which have led to a greater understanding of human disease. The new edition synthesizes all of this new information at the molecular, cellular, and organismal levels of organization and present modern

physiology a more understandable and comparative context. The Fourth Edition has been extensively revised, reflecting new fundamental advancements in this rapidly advancing field. Provides a common language for researchers across the fields of physiology, endocrinology, and biology to discuss their understanding of reproduction. Saves academic researchers time in quickly accessing the very latest details on reproductive physiology, as opposed to searching through thousands of journal articles.

#### *Clinical Gynecology* Elsevier Health Sciences

The conference represented by this book was made possible by support from NICHD and a planning committee headed by Dr. Richard Sherins. Two general areas of research are included: the first encompasses steroid hormone synthesis, metabolism and transport in the testis; and the second relates to hormonal regulation of the seminiferous tubule with special emphasis on the control of Sertoli cell function. In addition, there are sections on the purification of unique testicular proteins and morphological studies with particular emphasis on the Sertoli cell. We would like to express our sincere thanks to Dr. Sherins and his staff at NICHD and to all of the people at the University of North Carolina who participated in the Conference arrangements, to Dr. Judson J. Van Wyk, Chief of the Pediatric Endocrinology Division, and Dr. H. Stanley Bennett, Director of the Laboratories for Reproductive Biology. Our very special thanks to Mrs. Carolyn Jaros for her help in handling the local arrangements. Mrs. Martha Byrd and Mrs. Linda Rollins typed the manuscripts. Miss Leslie Wells and Mr. Albert Smith kindly assisted in proof reading, and Dr. Elizabeth Wilson gave much help with the final editing process. To all of these people, we are most grateful.

#### **Fundamentals of Male Infertility** Springer Science & Business Media

In 1964, the Fertilization and Gamete Physiology Research Training Program (FERGAP) was established at the Marine Biological Laboratories, Woods Hole, Massachusetts. Over the course of the next 12 years, under the directorship of Dr. Charles B. Metz, FERGAP brought together, trained, and inspired a generation of students in reproductive biology from all over the world. As students of C. B. Metz and as FERGAP trainees, we would like to dedicate this collected work on comparative mammalian fertilization to our teacher and mentor, Dr. Charles B. Metz. Like a number of authors contributing to this

volume, we have been struck by the significant impact that C. B. Metz and FERGAP had on the development of students of reproductive biology. Applying both the classical and molecular techniques of cell biology and immunology to problems of gamete biology, Dr. Metz emphasized a comparative and analytical approach that was reflected in his own research on fertilization in Paramecia, sea urchins, frogs, and mammals. It is hoped that this volume will serve to stimulate students to discover the myriad of fascinating research problems in gamete and reproductive biology. Bonnie S. Dunbar Michael G. O'Rand Houston, Texas Chapel Hill, North Carolina ix Contents Part I COMPARATIVE OVERVIEW OF MAMMALIAN GAMETES The Coevolution of Mammalian Gametes . . . . . 3 J. Michael Bedford I. Introduction . . . . . 3 2. Gamete Design . . . . . 4 2.1. Monotremes . . . . . 5 . . . . . 2.2. Marsupials . . . . . 5 . . . . . 2.3. Eutherians . . . . . 9 3. Gamete Maturation . . . . . 14 . . . . . 3.1. Oocyte Maturation . . . . . 14 . . . . . 3.2. Sperm Maturation in the Male . . . . . 15 . . . . .

#### **Nonhuman Primates I** Cambridge University Press

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.

*Neuroendocrinology in Physiology and Medicine* Cambridge University Press Thoroughly revised and now enhanced with color artwork, this new edition offers the latest information on the diagnosis and management of reproductive endocrine disorders. As an Expert Consult title, it includes convenient online access to the complete text of the book along with all of

the images and references linked to Medline.

*The Testis* Springer Science & Business Media

This book analyzes the basic science and treatment of male factor infertility with Dr. Silber's characteristic honesty and clear thinking. It describes finally what works and what doesn't work. It will inspire everyone in reproductive medicine (Gynecologists, Urologists, Embryologists and Endocrinologists) who wish to better understand male infertility.

*Environmental Impacts on Reproductive Health and Fertility* Springer Science & Business Media

Introduction to Mammalian Reproduction is a welcome contribution to the fields of gametogenesis, gamete transport, fertilization, and reproduction technologies. Key topics covered include: \*formation and maturation of male gametes; \*morphology and physiology of female gametes; \*how the sperm meets the egg; \*sperm-egg fusion, egg activation, and implantation of fertilized egg; \*assisted reproduction and environmental chemicals that have an effect on formation and function of male and female gametes. This book is for both researchers and students involved in reproductive biology.

*Endocrinology of the Testis and Male Reproduction* Springer Science & Business Media

Put the principles of good breeding management into practice with *Equine Breeding Management and Artificial Insemination, 2nd Edition* for reproductive success! Practical information on the reproductive management of both thoroughbred and warmblood breeding operations prepares you to effectively breed even problem mares and stallions. Plus, detailed content on techniques, procedures, reproductive physiology, and more help you increase reproductive efficiency as well as track and improve your results throughout each breeding season. A section on reproduction efficiency evaluation includes a worksheet to evaluate the performance of both mares and stallions during each breeding season, and helps you compare reproductive performance with previous breeding seasons. Detailed descriptions of procedures and techniques including embryo transfer, artificial insemination, and more enable you to implement the methods for better breeding results. Practical information on reproductive management of both thoroughbred and warmblood breeding operations enhance the fertility of problem mares and stallions. World-renowned authors and

contributors with years of practical knowledge and experience provide cutting-edge information. Vibrant full-color design and photographs show accurate representations of clinical appearance. Chapters covering the latest reproductive techniques improve chances of successful breeding, and improve survival rates after the birth of the foal. Vital chapters with information on recognizing potential problems help you quickly identify warning signs before fertility is negatively affected. *Reproductive Endocrinology and Infertility* Raven Press (ID)

The decade that has passed since publication of the second edition of this textbook has not only witnessed a tremendous increase in knowledge within the field of andrology, but also seen the field itself achieve a newfound status within the medical profession. Knowledge and status have been of mutual benefit to the field and the growing critical mass of diagnostic and therapeutic possibilities have caused andrology to be recognized as a medical subspecialty in some countries such as Germany, Poland, and Estonia. The European Academy of Andrology (EAA) served as a pacemaker for this development and continues to strive for establishment of andrology as a clinical field. Well-designed curricula and qualifying examinations have contributed to the official recognition of andrology as a speciality. This recognition of the field helps patients with andrological problems to find the specialist they seek. This textbook summarizes the current state of knowledge in the field of andrology. It is a source of knowledge to all those who are or want to become andrologists. In addition, as andrology is clearly an interdisciplinary field, this book may serve as a compendium and source of reference for all those physicians and biologists active in neighboring areas, who want to obtain an overview of andrology and who require information on special problems. The extensive references are timely and up to date.

**The Physiology of Reproduction** CRC Press

In 2002, Lippincott published the *Manual of Breast Diseases*, edited by Professor Ismail Jatoi. The current book, *Management of Breast Diseases*, is an adaptation of that manual, with Professor Manfred Kaufmann of the Goethe-University of Frankfurt serving as co-editor. Most of the chapters from the original manual have been either extensively revised or discarded, and several new chapters added. This text contains more material than the original manual, but it is still intended as a basic

guide for the wide spectrum of clinicians (surgeons, gynecologists, oncologists, radiation oncologists, internists, general practitioners) who treat breast diseases, both benign and malignant. To compile this text, we assembled experts from throughout the world. Thus, this text provides not only a broad overview of breast diseases, but also highlights different perspectives from different parts of the world. Yet, it is worth noting that the management of breast cancer is now largely predicated on evidence-based medicine. Several large, randomized prospective trials have demonstrated the efficacy of breast cancer screening and chemoprevention. Other large trials have addressed the impact of systemic therapy, radiotherapy, and variations in local therapy on breast cancer mortality. Many of these landmark trials are discussed in this text, and they clearly have had a beneficial effect. Indeed, since about 1990, breast cancer mortality rates have declined substantially in most industrialized countries, and this trend is expected to continue in the years ahead. *Encyclopedia of Reproduction* Springer Science & Business Media

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 \*Bibliographics of chapters are extensive and cover all the relevant literature **Infertility in the Male** Springer Science & Business Media

Maintaining the original goal of the first edition to integrate the basic science of endocrinology with its physiological and clinical principles, this new edition succinctly summarizes in 450 pages the latest findings on hormone secretion and hormone action, as well as all the most recent insights into the physiology and pathophysiology of hormonal disorders. Coverage extends across the entire

spectrum of endocrinology-from mammalian cells, plants, and insects to animal models and human diseases-with much increased coverage of diabetes and metabolism. Highlights include cutting-edge discussions of appetite disorders, obesity, reproductive failure, control of thyroid function, hormone action in man and the lower species, and the mechanisms subserving hormone secretion.

### **Textbook of Clinical Embryology**

Springer

The new edition of this canonical text on male reproductive medicine will cement the book's market-leading position. Practitioners across many specialties - including urologists, gynecologists, reproductive endocrinologists, medical endocrinologists and many in internal medicine and family practice - will see men with suboptimal fertility and reproductive problems. The book provides an excellent source of timely, well-considered information for those training in this young and rapidly evolving field. While several recent books provide targeted 'cookbooks' for those in a male reproductive laboratory, or quick reference for practising generalists, the modern, comprehensive reference providing both a background for male reproductive medicine as well as clinical practice information based on that foundation has been lacking until now. The book has been extensively revised with a particular focus on modern molecular medicine. Appropriate therapeutic interventions are highlighted throughout.

**Sertoli Cell Biology** Gulf Professional Publishing

Many reproductive and developmental

health problems are caused by exposure to chemicals that are widely dispersed in our environment. These problems include infertility, miscarriage, poor pregnancy outcomes, abnormal fetal development, early puberty, endometriosis, and diseases and cancers of reproductive organs. The compelling nature of the collective science has resulted in recognition of a new field of environmental reproductive health. Focusing on exposures to environmental contaminants, particularly during critical periods in development and their potential effects on all aspects of future reproductive life-course, this book provides the first comprehensive source of information bringing together the arguments that are spread out among various scientific disciplines in environmental health, clinical and public health fields. It provides a review of the science in key areas of the relationship between environmental contaminants and reproductive health outcomes, and recommendations on efforts toward prevention in clinical care and public policy.

*Knobil and Neill's Physiology of Reproduction* Springer Science & Business Media

There are more than 6000 species belonging to twenty-seven orders in the Class Mammalia. Comparative studies of this diverse and magnificent array of extant species provide valuable opportunities to formulate and test hypotheses concerning the evolution of reproduction. This is the first book to explore, in depth and breadth, the complex interrelationships that exist between patterns of mating behaviour and

the evolution of mammalian reproductive anatomy and physiology. It focuses upon the role that copulatory and post-copulatory sexual selection have played during the evolution of the monotremes, marsupials and placental mammals, and examines the effects of sperm competition and cryptic female choice upon coevolution of the genitalia in the two sexes. In addition, due weight is also given to discussions of the modes of life of mammals, and to the roles played by natural selection and phylogeny in determining their reproductive traits.

**Introduction to Mammalian Reproduction** Cambridge University Press

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\* Bibliography of chapters are extensive and cover all the relevant literature

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