Physiology Of The Male Reproductive System

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Endocrinology Elsevier
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
Infertility in the Male Springer
This is a collection of multiple choice questions on the urinary system, female reproductive system and male reproductive system. Topics covered include an overview of the urinary system, anatomy, glomerular filtration, tubular reabsorption, tubular secretion, production of dilute and concentrated urine, kidney function evaluation, urine transport, urine storage, urine elimination, female anatomy, female reproductive cycle, birth control methods, an overview of the male reproductive system, spermatogenesis, male reproductive tract, semen, external genitalia, and hormones. These questions are suitable for students enrolled in Human Anatomy and Physiology I or II or General Anatomy and Physiology.
Andrology CRC Press
This book addresses various aspects of male reproduction ranging from mind to testis. The basis of maleness lies in the Y chromosome. Reproductive functions depend upon the development of male organs from embryo to manhood. Testis, the male gonad, produces hormones and sperms; the latter is ejaculated in semen secreted by accessory sex glands. The testicular events are under neuroendocrine regulation which coordinates reproductive life from puberty to andropause. Biology is as important as psychology in the control of reproduction. Behaviours are rooted in the brain. Various brain areas and neural circuits regulate male behaviours. Brain sexual polymorphism is the basis of homosexuality and transgenders. Neurophysiology has always been complex to understand. But, this book presents it in a simpler way. Reproductive organs receive systemic influences, too. The book describes roles of metabolic, immune and thyroid status in reproduction. The book has chapters on male reproductive pathophysiology. Principles of diagnosis and management are also included. The last section deals with contraception and yoga. The traditional wisdom of yoga has been used for millennia to enhance sexual and reproductive experience. This book will serve basic medical scientists, urologists, nephrologists, surgeons, andrologists, endocrinologists, gynaecologists, nurses, councellors and also the students of biological sciences who want to study reproduction in human male. The language is kept simple so that an inquisitive person with a background of biology too may read it.
Gross Anatomy: The Big Picture John Wiley & Sons
The results of this compilation of new research on the reproductive physiology of marsupials reveal much about their patterns of reproduction and evolution in comparison to monotremes and eutherians.
Endocrine and Reproductive Physiology E-Book Cambridge University Press
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 ? eld of and- logy, but also seen the ? eld itself achieve a newfound status within the medical p- fession. Knowledge and status have been of mutual bene? t to the ? eld 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 ? eld. Well-designed curricula and qualifying examinations have contributed to the of? cial recognition of andrology as a speciality. This recognition of the ? eld helps patients with andrological problems to ? nd the specialist they seek. This textbook summarizes the current state of knowledge in the ? eld 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 ? eld, 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.
Male Reproductive System CRC Press
Endocrine and Reproductive Physiology, a volume in the Mosby Physiology Monograph Series, explains the fundamentals of endocrine and reproductive physiology in a clear and concise manner. This medical textbook gives you a basic understanding of how endocrine and metabolic physiology affects other body systems in health and disease, including the clinical dimensions of reproductive endocrinology. Bridge the gap between normal function and disease with pathophysiology content throughout the book. Easily master the material in your systems-based curriculum with learning objectives, Clinical Concept boxes, chapter summaries, and self-study questions. Understand complex concepts by examining almost 200 clear, 2-color diagrams. Apply what you've learned to real-life clinical situations using featured clinical commentaries. Take your learning wherever you go! Stay abreast of recent advances in endocrine physiology with expanded material on reproductive endocrinology and metabolism, and many updates at the molecular and cellular level. Learn the latest developments in fertilization, pregnancy, and lactation, as well as fetal development, puberty, and the decline of reproductive function with age.
An Introduction to Male Reproductive Medicine Elsevier
1. Explain about the functions of the reproductive system ? Ans. 1) Production of sperm 2) Transport and maintenance of sperm 3) Nuturing of developing off spring and 4) secretion of male sex hormones. 2. Describe the testis ANS. In males , it is the primary sex organ or gonad . It matches with ovary in females. Generally 2 tests are present in all the Species. Both testes are located in scrotum in most of the species. Test is consists of 900 coiled tubules termed as seminiferous Tubules (SFT) which yield sperms . SFTs commence as the vas efferents which form epididymis. It proceeded as vas deferens. The terminal part of vas deferens is termed as Ampulla.
Male Reproductive Function and Semen Oxford University Press
An Introduction to Male Reproductive Medicine is written specifically for readers seeking entry into this fast-moving, complex specialty with a solid understanding of the subject. The first chapters cover the anatomy and physiology, clinical evaluation, surgery, medicine, genetics and laboratory testing involved in the current evaluation and treatment of the infertile male, and the final chapter describes the interaction of the field with female reproductive medicine. Throughout the book, references are directly made to the fourth edition of the major text in the specialty, Infertility in the Male, edited by Larry Lipshultz, Stuart Howards and Craig Niederberger, allowing readers to expand their understanding of specific areas where desired. Each chapter is written by a well-renowned expert in an easy to follow, informal style, making the text ideal for students, residents and general physicians who are seeking to increase their general knowledge of the field.
Studies of the Physiology and Biochemistry of the Male Reproductive Tract CreateSpace
When you’re looking for a comprehensive and reliable text on large animal reproduction, look no further! the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine. In response to reader feedback, Dr. Hafez has streamlined and edited the entire text to remove all repetitious and nonessential material. That means you'll learn more in fewer pages. Plus the seventh editing is filled with features that help you grasp the concepts of reproduction in farm animals so you'll perform better on exams and in practice: condensed and simplified tables, so they're easier to consult an easy-to-scan glossary at the end of the book an expanded appendix, which includes graphic illustrations of assisted reproduction technology Plus, you'll find valuable NEW COVERAGE on all these topics: Equine Reproduction: expanded information reflecting today's knowledge Llamas (NEW CHAPTER) Micromanipulation of Gametes and In Vitro Fertilization (NEW CHAPTER!) Reach for the text that's revised with the undergraduate in mind: the seventh edition of Hafez's Reproduction in Farm Animals.
Male Reproductive Function and Semen ; Themes and Trends in Physiology Cambridge University Press
Sex Differences in Physiology is an all-encompassing reference that details basic science research into sex differences in all physiological fields. It includes scientific discoveries concerning sex differences in cardiovascular, respiratory, renal, gastrointestinal, and musculoskeletal physiology. In addition, coverage of the development, endocrinology, neurophysiology, immunity, and metabolism is included, making this important reference a resource that will meet the needs of investigators interested in incorporating sex differences into their research programs, while also providing clinicians with the basis for providing the best sex-based medical treatment options available. Provides a sweeping, organ-by-organ review of currently observed sex differences in animal models and human disease Explains how sex differences influence physiology and disease Provides the critical knowledge on sex differences for better understanding of prevention and treatment of diseases
Molecular Biology of the Male Reproductive System Academic Press
A full-color, case-based review of the essentials of pathophysiology--covering all major organs and systems The goal of this trusted text is to introduce you to clinical medicine by reviewing the pathophysiologic basis of 120 diseases (and associated signs and symptoms) commonly encountered in medical practice. The authors, all experts in their respective fields, have provided a concise review of relevant normal structure and function of each body system, followed by a description of the pathophysiologic mechanisms that underlie several common diseases related to that system. Each chapter of Pathophysiology of Disease concludes with a collection of case studies and questions designed to test your understanding of the pathophysiology of each clinical entity discussed. These case studies allow you to apply your knowledge to specific clinical situations. Detailed answers to each case study question are provided at the end of the book. This unique interweaving of physiological and pathological concepts will put you on the path toward thinking about signs and symptoms in terms of their pathophysiologic basis, giving you an understanding of the "why" behind illness and treatment. Features 120 case studies (9 new) provide an opportunity for you to test your understanding of the pathophysiology of each clinical entity discussed Checkpoint questions provide review and appear in every chapter Updates and revisions throughout this new edition reflect the latest research and developments Numerous tables and diagrams encapsulate important information Updated references for each chapter topic Pathophysiology of Disease is a true must-have resource for medical students preparing for the USMLE Step 1 exam, as well as students engaged in their clerkship studies. House officers, nurses, nurse practitioners, physicians’ assistants, and allied health practitioners will find its concise presentation and broad scope a great help in facilitating their understanding of common disease entities.
Female Reproductive System Cambridge University Press
Although impotence may be the most widely recognized manifestation of male sexual dysfunction, many other forms of sexual disorders do not involve the erectile mechanism, from deficiencies of desire to disturbances in ejaculatory function to the failure of detumescence. With such a myriad-and often co-existing-number of disorders, the successful tr
The Sertoli Cell John Wiley & Sons
Helps you easily master the material in a systems-based curriculum with learning objectives, Clinical Concept boxes, highlighted key words and concepts, chapter summaries, self-study questions, and a comprehensive exam. Includes nearly 200 clear, 2-color diagrams that simplify complex concepts. Features clinical commentaries that show you how to apply what you've learned to real-life clinical situations. Keeps you current with recent advances in endocrine physiology with expanded material on reproductive endocrinology and metabolism, and many updates at the molecular and cellular level. Covers the latest developments in fertilization, pregnancy, and lactation, as well as fetal development, puberty, and the decline of reproductive function with age. Complete the Mosby Physiology Series! Systems-based and portable, these titles are ideal for integrated programs. Blaustein, Kao, & Matteson: Cellular Physiology and Neurophysiology Johnson: Gastrointestinal Physiology Koeppen & Stanton: Renal Physiology Cloutier: Respiratory Physiology Pappano & Weir: Cardiovascular Physiology Hudnall: Hematology: A Pathophysiologic Approach
Male Reproductive Dysfunction McGraw Hill Professional
Personnel working in assisted reproductive technology often lack the opportunities for dedicated training in the specialized

techniques and technologies required for the procedures. As such, success in the form of live birth rates can range from over 50% to less than 10% per treatment cycle. This comprehensive introductory textbook is an essential resource for trainee embryologists, medical students and nurses. The recent revolutions in biotechnology and molecular biology involved in delivering assisted reproductive services are thoroughly discussed. Basic knowledge such as the development and physiology of both male and female reproductive systems is covered, with practical aspects of IVF including gamete and embryo manipulation, cryopreservation and genetic testing explained in detail. A full description of the optimal structure and management of the IVF laboratory is given, helping ensure procedures are safe and effective. Extensive and highly detailed colour illustrations bring the content to life and aids readers in their understanding.

Environmental Impacts on Reproductive Health and Fertility 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 principels 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*Bibliogrpahics of chapters are extensive and cover all the relevant literature

Study Guide for Human Anatomy and Physiology Springer Science & Business Media

Male Reproductive Function gives an up-to-date review on the physiology and disease processes associated with the male reproductive system. The first few chapters describe the regulation of the functions of the testis and the integration of its components: germ cells, Sertoli cells and Leydig cells. This is followed by a description of puberty and aging, and the disorders or dysfunction that may be associated with these physiological processes. Discussions on the current methods for the diagnosis and treatment of male hypogonadism, male infertility and male sexual dysfunction follow, with detailed descriptions of types of androgen replacement and the benefits and risks of such treatment. The book concludes with the development of male contraception and the possible influence of the environment on the male reproductive system. Male Reproductive Function represents a conglomeration of the efforts of experts in andrology from all over the world, both in basic cellular/molecular biology as well as in clinical science and practice. This book is suitable for endocrinologists, urologists, general internists, gynecologists and other students in the field of male reproduction.

Questions and Answers in Male Reproductive Physiology Academic Press

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.

MRCOG Part One Elsevier Health Sciences

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.

Endocrine and Reproductive Physiology E-Book McGraw Hill Professional

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.

Sex Differences in Physiology Createspace Independent Publishing Platform

A fully updated and illustrated handbook providing comprehensive coverage of all curriculum areas covered by the MRCOG Part 1 examination.