

# Reproductive Anatomy And Physiology Of Cattle

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Functional Anatomy and Physiology of Domestic Animals - William O. Reece 2017-06-07

Now in its Fifth Edition, *Functional Anatomy and Physiology of Domestic Animals* provides a basic understanding of domestic animal anatomy and physiology, taking an interconnected approach to structure and function of the horse, dog, cat, cow, sheep, goat, pig, and chicken. Offers a readable introduction to basic knowledge in domestic animal anatomy and physiology Covers equine, canine, feline, bovine, ovine, ruminant, swine, and poultry anatomy and physiology Considers structure and function in relation to each other for a full understanding of the relationship between the two Provides pedagogical tools to promote learning, including chapter outlines, study questions, self-evaluation exercises, clinical correlates, key terms, suggested readings, and a robust art program Includes access to a companion website with video clips, review questions, and the figures from the book in PowerPoint

Current Therapy in Large Animal Theriogenology - Robert S. Youngquist 2006-10-10

This is a Pageburst digital textbook; An essential resource for both students and practitioners, this comprehensive text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new section on alternative farming that addresses reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious disease and nutrition.

Current Therapy in Large Animal Theriogenology - Robert S. Youngquist 2007

An essential resource for both students and practitioners, this comprehensive text provides practical, up-to-date information about normal reproduction and reproductive disorders in horses, cattle, small ruminants, swine, llamas, and other livestock. Featuring contributions from experts in the field, each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females. Key topics include the evaluation of breeding soundness, pregnancy diagnosis, diagnosis and treatment of infertility, abortion, obstetrics, surgery of the reproductive tract, care of neonates, and the latest reproductive technology. Includes coverage of all large animal species. All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species. Complete coverage of the most current reproductive technology, including embryo transfer, estrous synchronization, and artificial insemination. A new section on alternative farming that addresses reproduction in bison, elk, and deer. New to the equine section: stallion management, infertility, and breeding soundness evaluation. New to the bovine section: estrous cycle synchronization, reproductive biotechnology, ultrasonographic

determination of fetal gender, heifer development, and diagnosis of abortion. New to the porcine section: artificial insemination, boar/stud management, diseases of postpartum period, and infectious disease control. New to the llama section: infectious disease and nutrition.

Microbiome-Host Interactions - D. Dhanasekaran 2021-04-01

Microbiota are a promising and fascinating subject in biology because they integrate the microbial communities in humans, animals, plants, and the environment. In humans, microbiota are associated with the gut, skin, and genital, oral, and respiratory organs. The plant microbial community is referred to as "holobiont," and it is influential in the maintenance and health of plants, which themselves play a role in animal health and the environment. The contents of *Microbiome-Host Interactions* cover all areas as well as new research trends in the fields of plant, animal, human, and environmental microbiome interactions. The book covers microbiota in polar soil environments, in health and disease, in *Caenorhabditis elegans*, and in agroecosystems, as well as in rice root and actinorhizal root nodules, speleothems, and marine shallow-water hydrothermal vents. Moreover, this book provides comprehensive accounts of advanced next-generation DNA sequencing, metagenomic techniques, high-throughput 16S rRNA sequencing, and understanding nucleic acid sequence data from fungal, algal, viral, bacterial, cyanobacterial, actinobacterial, and archaeal communities using QIIME software (*Quantitative Insights into Microbial Ecology*). FEATURES Summarizes recent insight in microbiota and host interactions in distinct habitats, including Antarctic, hydrothermal vents, speleothems, oral, skin, gut, feces, reproductive tract, soil, root, root nodules, forests, and mangroves Illustrates the high-throughput amplicon sequencing, computational techniques involved in the microbiota analysis, downstream analysis and visualization, and multivariate analysis commonly used for microbiome analysis Describes probiotics and prebiotics in the composition of the gut microbiota, skin microbiome impact in dermatologic disease prevention, and microbial communities in the reproductive tract of humans and animals Presents information in a reachable way for students, teachers, researchers, microbiologists, computational biologists, and other professionals who are interested in strengthening or enlarging their knowledge about microbiome analysis with next-generation DNA sequencing in the different branches of the sciences

Anatomy and Physiology of Farm Animals - R. D. Frandson 1992

This 5th edition offers concise information on general anatomic and physiologic principles applicable to all farm animals. All topics have been updated, supported by the latest research discoveries and factual information. Anglicized technical terms are used throughout the book, but most terms not found in an ordinary dictionary are defined within the text. Important differences from the gradually accepted view of controversial subjects are mentioned or discussed.

Introduction To Animal Physiology - Satish Kumar Jindal 2011-09-02

This text book on Physiology of Animals is intended to be useful for elementary animal physiology course in colleges of agriculture, zoology, veterinary and animal sciences. In all s, the aim has been to present a clear and concise account of the functioning of various systems of domestic animals. Where appropriate, examples from human and non domestic animals such as rat and rabbit have been cited. Physiology has now grown into a vast discipline. The book covers and explains the following deeply: o Nature and Scope of Physiology o Body Fluids: Water, Electrolyte and Acid Base Balance o Respiration o Blood o Circulatory System o Structure & Functions of the Kidney o Rumen Function o Digestion & Metabolism o Vitamins and Minerals o Endocrine Glands and Their Secretions o Reproduction in the Male o Female Reproduction o Lactation o Nervous System o Bone, Skin and Special Senses o Physiology of Temperature Regulation

Textbook of Clinical Embryology - Kevin Coward 2013-10-31

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.

**Bovine Reproduction** - Richard M. Hopper 2014-08-18

Bovine Reproduction is a comprehensive, current reference providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most exhaustive reference available on this topic. Each section covers anatomy and physiology, breeding management, and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow. Bovine Reproduction is a welcome resource for bovine practitioners, theriogenologists, and animal scientists, as well as veterinary students and residents with an interest in the cow.

**Goat Science** - Sándor Kukovics 2018-06-20

Goat science covers quite a wide range and varieties of topics, from genetics and breeding, via nutrition, production systems, reproduction, milk and meat production, animal health and parasitism, etc., up to the effects of goat products on human health. In this book, several parts of them are presented within 18 different chapters. Molecular genetics and genetic improvement of goats are the new approaches of goat development. Several factors affect the passage rate of digesta in goats, but for diet properties, goats are similar to other ruminants. Iodine deficiency in goats could be dangerous. Assisted reproduction techniques have similar importance in goats like in other ruminants. Milk and meat production traits of goats are almost equally important and have significant positive impacts on human health. Many factors affect the health of goats, heat stress being of increasing importance. Production systems could modify all of the abovementioned characteristics of goats.

**Reproduction in Domestic Animals** - Perry T. Cupps 1991-02-20

A unique feature of this book is the focus on large, domestic animals. Previous editions were considered the "Bible" of reproductive physiology. It covers basic, large animal reproductive physiology, provides species-specific information and is suitable as a textbook for upper-division courses.

**Calving Management and Newborn Calf Care** - João Simões 2021-08-28

This comprehensive textbook provides detailed information on calving management in dairy and beef cattle. Enriched with diverse learning opportunities, it conveys the fundamentals of reproductive anatomy and physiology, parturition, birth complications and various obstetrical manoeuvres, as well as dam and calf care. In order to promote best practices in this specialized subject, the book covers all significant points from conception to calving and the perinatal period. Clear chapter structures, a wealth of illustrations and videos, obstetrical case studies, and question-and-answer lists round out the reading experience, making the book a unique source of information on how to support mother cows and obtain viable offspring. In addition, readers can download the free Springer Nature Flashcards App and benefit from 77 digital study questions to test their knowledge. Calving is a significant event in terms of providing care and nutrition for mother cows and calves. The reproductive health status in cattle farms is crucial to immediately initiate lactation and new conception. Assistance by technical personnel, dystocia and stillbirth occurrences can reach ca. 50%, 14% and 6% of parturitions, respectively. Hence, zootechnical and veterinary management of calving is of great importance for animal welfare. This textbook makes a valuable contribution to teaching and everyday practice in cattle medicine and obstetrics. Veterinary students, residents, practitioners and technical personnel will discover it to be a rich learning

and reference resource.

**Reproduction in Farm Animals** - E. S. E. Hafez 2013-05-13

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.

**Anatomy and Physiology of Animals** - J. Ruth Lawson 2015

**The One-humped Camel (Camelus Dromedarius) in Eastern Africa**

- H. J. Schwartz 1992

**Equine Reproductive Physiology, Breeding and Stud Management**

- Mina C G Davies Morel 2020-09

**Human Reproductive Physiology** - Rodney P. Shearman 1972

**Sheep and Goat Breeding** - Food and Agriculture Organization of the United Nations 1977

Initially published by arrangement with INADES, Institut africain pour le développement économique et social, Abidjan, Côte d'Ivoire, the Better Farming Series booklets are designed as handbooks for intermediate-level agricultural education and training courses. They may be purchased as a set (45 booklets) or singly.

**The Sperm Cell** - Christopher J. De Jonge 2006-04-06

Originally published in 2006, this is a comprehensive and definitive account of the human male gamete. The volume summarizes many unique and revealing characteristics of the sperm cell. It provides a detailed overview of human sperm production, maturation and function, and looks at how these processes affect and influence fertility, infertility and ART. The volume thus provides a detailed review of the most important research and developments, augmented with pertinent references. This book will appeal to all practitioners and scientists in reproductive medicine and in particular to clinical scientists, graduate and post-graduate scientists, and laboratory personnel.

**Introduction to Veterinary Anatomy and Physiology E-Book** -

Victoria Aspinall 2009-04-24

A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals. The new Introduction to Veterinary Anatomy and Physiology Textbook builds on the success of the first edition in its thorough coverage of the common companion animal species. Updated throughout, the new edition features online learning resources, providing students with the opportunity to test their knowledge with questions and visual exercises, while instructors can download questions, figures and exercises to use as teaching aids. An essential first purchase for all those embarking upon a veterinary career Now with on-line resources including self-assessment tools and teaching aids Comprehensive coverage of all major companion animal species New equine chapter 'Applied Anatomy' tips relate theory to clinical practice, showing the relationship between anatomy and physiology and the disease process

**Small Animal Theriogenology** - Margaret V. Root Kustritz 2003

A title in the Practical Veterinarian series, this comprehensive, concise reference has been developed by Diplomates of the American College of Theriogenologists to help veterinary students, veterinarians, and veterinary technicians quickly find answers to common questions. Quick-reference information in an outline format presents the normal reproductive anatomy and physiology, reproductive disorders, and breeding management in dogs and cats. Tables and illustrations further clarify key concepts. This book also serves as an easy-to-understand introduction to veterinary theriogenology touching on all aspects of small animal reproduction, including physiology and pathology of the male and female reproductive systems and the clinical practice of veterinary

obstetrics, gynecology, and semenology. Easy-to-use, pocket sized format keeps key facts within reach in any setting. Outline format makes finding information quick and easy. The ONLY book written on small animal theriogenology for small animal veterinarians designed for quick reference. All content is current and the authors are Diplomates of the American College of Theriogenologists to ensure the most authoritative information, including discussions of regional or national differences in techniques and medications. Coverage of veterinary neonatology presents pediatric content on examining, treating, and feeding neonates that is often overlooked by other texts on the subject. Topics include breeding management, pregnancy diagnosis and care, pregnancy termination, artificial insemination and preparation of chilled and frozen semen, emerging technologies in veterinary reproduction, and diseases of the reproductive tract including vaginitis, prostate disease, and pyometra. Includes a chapter on infertility, an area of growing concern for pet owners and breeders.

**Bovine Reproduction** - Richard M. Hopper 2021-07-21

Bovine Reproduction A complete resource for practical, authoritative information on all aspects of bovine theriogenology The newly revised Second Edition of Bovine Reproduction delivers a comprehensive overview of all major issues in bovine reproduction. Written by leading experts in the subject, the book is an indispensable reference for any veterinarian dealing with bovine fertility. Bovine Reproduction is divided into sections on the bull, the cow, the neonate, and assisted reproduction techniques. New chapters cover new gene manipulation technologies, managing problem donors, lameness, and more. Outdated and redundant information from the First Edition has been removed and replaced by coverage of new diseases, technologies, procedures, techniques, and approaches to fertility problems. A new companion website provides images and tables from the book in PowerPoint format. In addition to more than 675 full-color images, readers will also benefit from: A thorough discussion of the anatomy and physiology of the bull, including the endocrine and exocrine function of bovine testes and the thermoregulation of the testes An exploration of breeding and health management of bulls, including the evaluation of breeding soundness and ultrasound examination of the reproductive tract An examination of the anatomy, physiology, and the breeding and health management of cows, including fetal programming, the reproductive tract microbiome, and a section on obstetrics and reproductive surgery A review of the management of both critical care of the neonate and effective colostrum assessment and provision An introduction to assisted and advanced reproductive technologies A practical and comprehensive reference, Bovine Reproduction is a must-have purchase for bovine practitioners, theriogenologists, animal scientists, veterinary students, and residents with an interest in cattle.

**Reproduction in Farm Animals** - Elsayed Saad Eldin Hafez 1993-01-01

Functional anatomy of reproduction; Anatomy of male reproduction; Anatomy of female reproduction; Hormones, growth factors, and reproduction; Reproductive cycles; Folliculogenesis, egg maturation, and ovulation; Transport and survival gametes; Spermatozoa and seminal plasma; Fertilization, cleavage, and implantation; Gestation, prenatal physiology, and parturition; Reproductive behavior; Reproductive failure in females; Reproductive failure in males; Genetics of reproductive failure; Reproductive cycles; Cattle and buffalo; Sheep and goats; Pigs; Horses; Poultry; Techniques for improving reproductive efficiency; Semen evaluation; artificial insemination; X-and Y-chromosome - bearing spermatozoa; Pregnancy diagnosis; Ovulation manipulation, In Vitro fertilization and embryo transfer, and genetic engineering; Preservation and cryopreservation of gametes and embryos.

**Pathways to Pregnancy and Parturition** - Phillip L. Senger 2003  
College level animal reproductive physiology.

**McCurnin's Clinical Textbook for Veterinary Technicians** - Joanna M. Bassert 2013-04-05

A fundamental text in the field of veterinary technology, McCurnin's Clinical Textbook for Veterinary Technicians, 8th Edition has the trusted content, simplified layout, and novel study tools every Vet Tech needs. Sections on small and large animals, birds, reptiles, and small mammals embrace every aspect of the veterinary field, while case presentations of actual patient situations link information to relevant, real-life scenarios. This color-coded, fully illustrated guide will give you a leg up in the constantly evolving Vet Tech field. Full color photos bring concepts to life and emphasize the role of the vet tech. Vet Tech Threads offer helpful pedagogical aids such as introductions, suggested readings, boxed Technician Notes, learning objectives, chapter outlines and key terms. Large animal care integrated throughout the book with medical records,

dentistry, physical examination, surgical instrumentation, and more. Step-by-step instructions and photographs makes information readily accessible in emergency and clinical situations. A companion workbook is available separately to help you master and apply key concepts and procedures with multiple choice questions, matching exercises, photo quizzes, labeling exercises, crossword puzzles, and more. Birds, reptiles, and small mammals chapter keeps you up-to-date with care and treatment for these increasingly popular pets. Chapters on pharmacology, pain management, restraint, and veterinary oncology offer a broader understanding of the responsibilities of a technician. NEW! Chapter on fluid therapy and transfusion medicine, a critical aspect of veterinary technology. NEW! Introduction to the concept of the Technician Practice Model ensures that excellent nursing care is provided to each and every patient. NEW! Added content on electrocardiography included in the Emergency Nursing chapter.

**Factors Affecting Calf Crop** - Michael J. Fields 2021-11-19

Factors Affecting Calf Crop summarizes the latest information available from leading cattle physiologists and geneticists regarding factors known to influence the production of live calves at weaning. You get practical information on management techniques for improving reproduction efficiency in the herd. You'll also learn about the functioning of the reproductive system and how this may affect reproductive processes in the cow herd. Managers will benefit from a clearer understanding of the factors known to limit efficient reproduction, while veterinarians and other professionals who advise cattlemen will appreciate the substantial reference material and color photographs for defining cow condition scores. Color photographs are also used to illustrate the discussions of testicular thermographies and their applications. Other chapters in the book cover developments in improving reproductive performance of the replacement heifer, the brood cow, and the bull. Topics on reproduction include physiology/endocrinology, the use of growth promotants, genetics and physiological and economic considerations in selecting the age to breed heifers, heritability of fertility, length of the breeding season, prepartum and postpartum nutrition, nursing by the calf, cloning of embryos, and much more.

**Reproduction in Cattle** - Andy Peters 1996-08-26

The efficient management of reproduction is essential to maximise the productivity and profitability of cattle farming. Here, the anatomy and physiology of the male and female reproductive systems are described with emphasis on important recent advances such as in the hormonal control of the oestrous cycle, artificial insemination, the establishment of pregnancy, embryo loss and its possible prevention. Parturition and lactation, including their manipulation, are covered as are factors affecting the post-partum anoestrous period, which is of vital importance in maintaining herd calving interval and patterns. Common reproductive problems of bulls and cows, and the rapidly advancing field of reproductive technology - embryo transfer, in vitro fertilization, embryo sexing and cloning - are reviewed. The book concludes with a discussion of the principles of reproductive management and selection of cattle for breeding. The emphasis throughout is on the interaction of physiology, pharmacology, technology, management and genetics of reproduction to maximize reproductive performance in cattle.

**Veterinary Genetics and Reproductive Physiology** - Susan Long 2006-01-01

Intended for veterinary nurses, this book presents a comprehensive overview of genetics and reproductive physiology in veterinary nursing. It covers the needs of the curriculum, addressing a range of subjects from genetic material through to breeding and the physiological aspects of reproduction in different species.

**Introduction to Animal and Veterinary Anatomy and Physiology, 4th Edition** - Victoria Aspinall 2019-12-11

A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals and farm animals alike. The fourth edition of this bestselling book continues to provide a comprehensive description of the anatomy and physiology of dogs and cats. The book builds on these foundations with detailed descriptions of exotic small species including birds, and domestic farm animals, including cows, sheep and pigs, as well as the horse.

**Reproduction in Cattle** - Peter J. H. Ball 2008-04-15

Cattle play a fundamental role in animal agriculture throughout the world. They not only provide us with a vital food source, but they also provide us with fertilizer and fuel. Keeping reproduction levels at an optimum level is therefore essential, but this is often a complicated process, especially with modern, high yielding cows. Written in a practical and user-friendly style, this book aims to help the reader

understand cattle reproduction by explaining the underlying physiology of the reproductive process and the role and importance of pharmacology and technology, and showing how management techniques can improve reproductive efficiency. This edition includes: Recent research findings on the physiology of the oestrous cycle and its control; New techniques for monitoring and manipulating reproduction, including pregnancy diagnosis and embryo transfer; Advice on identifying common infertility problems and how to prevent and treat them. *Reproduction Cattle 3e* is essential reading for veterinary and agricultural students, as well as veterinarians and farmers involved in cattle reproduction.

*Designing Foods* - National Research Council 1988-02-01

This lively book examines recent trends in animal product consumption and diet; reviews industry efforts, policies, and programs aimed at improving the nutritional attributes of animal products; and offers suggestions for further research. In addition, the volume reviews dietary and health recommendations from major health organizations and notes specific target levels for nutrients.

**Veterinary Anatomy and Physiology** - 2019-03-13

Knowledge of veterinary anatomy and physiology is essential for veterinary professionals and researchers. The chapters reflect the diverse and dynamic research being undertaken in a variety of different species throughout the world. Whether the animals have roles in food security, agriculture, or as companion, wild, or working animals, the lessons we learn impact on many areas of the profession. This book highlights research ranging from the cardiovascular and musculoskeletal systems, prostate and hoof, through to histopathology, imaging, and molecular techniques. It investigates both healthy and pathological conditions at differing stages of life. The importance of each cell and tissue through to the whole organism is explored alongside the methodologies used to understand these vital structures and functions.

*The Sertoli Cell* - Lonnie Dee Russell 1993

*Comparative Reproductive Biology* - Heide Schatten 2008-03-21

When considering the physiological systems of the body, the degree of species variation within the reproductive system compared to other systems is remarkable. Furthermore, it is essential that researchers, educators, and students alike remain aware of the fundamental comparative differences in the reproductive biology of domestic species. Written by renowned scientists in their respective fields, *Comparative Reproductive Biology* is a comprehensive reference on the reproductive systems of domestic species. The book offers both broad and specific knowledge in areas that have advanced the field in recent years, including advances in cell and molecular biology applied to reproduction, transgenic animal production, gender selection, artificial insemination, embryo transfer, cryobiology, animal cloning and many others. This seminal text includes topics in animal reproduction that are usually only found as part of other books in animal science such as anatomy, histology, physiology, radiology, ultrasonography, and others. Comprehensive reference of the reproductive systems of domestic species. Written by a team of top researchers. Richly illustrated throughout, including 12 pages of color images.

**Endocrinology of Pregnancy** - Fuller W. Bazer 2012-12-06

A comprehensive, cutting-edge review of the complex interactions between maternal and fetal-placental tissues that control the establishment and maintenance of pregnancy, the proper development of the fetus, the birth process, and the behavioral aspects of bonding between mother and newborn. Expert researchers review the endocrine and physiological events that culminate in the delivery of offspring, and provide a solid base of comparative information on the menstrual cycle of primates, including humans. They also discuss the sources and functions of both steroid and protein hormones from the placenta and the details of their effects on uterine function, placental development, fetal growth and well-being, and maternal responses to pregnancy. This book will become the standard reference source not only for reproductive scientists, but

also for those clinicians who want better to understand the complex factors that affect pregnancy and their pregnant patients.

*Ovarian Cycle* - Gerald Litwack 2018-03-13

*Ovarian Cycle*, Volume 107, the latest in the *Vitamins and Hormones* series first published in 1943, and the longest-running serial published by Academic Press, covers the latest updates on hormone action, vitamin action, X-ray crystal structure, physiology and enzyme mechanisms. This latest release includes an overview of the ovarian cycle, a section on ovarian hyperstimulation syndrome, information on androgens and ovarian follicular maturation, information on peptide inhibitors of human thymidylate synthase to inhibit ovarian cancer cell growth, sections on nodal and luteolysis, neurokinins, dynorphin and pulsatile Lh secretion, Lh receptor expression by Mir12, and gonadotrophin-surge attenuating factor, melatonin and Bmp-6 regulation, amongst other topics. Focuses on the newest aspects of hormone action in connection with diseases. Lays the groundwork for the focus of new chemotherapeutic targets. Reviews emerging areas in hormone action, cellular regulators and signaling pathways.

**Artificial Insemination in Farm Animals** - Milad Manafi 2011

Artificial insemination is used instead of natural mating for reproduction purposes and its chief priority is that the desirable characteristics of a bull or other male livestock animal can be passed on more quickly and to more progeny than if that animal is mated with females in a natural fashion. This book contains under one cover 16 chapters of concise, up-to-date information on artificial insemination in buffalos, ewes, pigs, swine, sheep, goats, pigs and dogs. Cryopreservation effect on sperm quality and fertility, new method and diagnostic test in semen analysis, management factors affecting fertility after cervical insemination, factors of non-infectious nature affecting the fertility, fatty acids effects on reproductive performance of ruminants, particularities of bovine artificial insemination, sperm preparation techniques and reproductive endocrinology diseases are described. This book will explain the advantages and disadvantages of using AI, the various methodologies used in different species, and how AI can be used to improve reproductive efficiency in farm animals.

**Biotechnologies Applied to Animal Reproduction** - Juan Carlos Gardón 2020-11-01

This comprehensive volume focuses on recent trends and new technologies used in the management of reproduction in major farm animals, focusing on both males and females of bovine, equine, and porcine species. With chapters written by scientists who specialize in their respective topics, the volume presents a selection of different technologies that have been developed to assure reproductive success by improving reproductive efficiency, generating germplasm banks, and maintaining genetic diversity in cattle, horses, and pigs. In the last decade, reproductive technologies in veterinary medicine have progressed considerably, providing high profitability to livestock farms. This book provides basic and applied information on the most used reproductive technologies in bovine, equine, and porcine species for academics, scientists, and veterinarians. The volume discusses reproductive and postpartum management, reproductive ultrasound, sperm management, egg retrieval, artificial insemination, embryo transfer, nutrition, genetics, and certain clinical aspects, such as endocrinology and robustness of reproductive systems.

*Abnormal Morphology of Bovine Spermatozoa* - A. D. Barth 1991-01-15

Classifies and interprets bovine sperm defects. Includes 155 photomicrographs.

*Reproduction in Domestic Ruminants VII* - M. C. Lucy 2011-02-01

The combined work of eminent scientists in the field, this compilation contains the latest information on ruminant nutrition from the eighth annual International Ruminant Reproduction Symposium. With discussions on how to improve reproduction by applying nutrition and physiology, this collection spotlights the recent advances regarding the ruminant genome and includes chapters about specific animals, including the dairy buffalo, camel, and reindeer.

*SID Sheep Production Handbook* - 2015