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Bovine Reproduction CRC Press
Encyclopedia of Reproduction, Second Edition comprehensively reviews biology and abnormalities, also covering the most common diseases in humans, such as prostate and breast cancer, as well as normal developmental biology, including embryogenesis, gestation, birth and puberty. Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers, from advanced undergraduate students, to research professionals. Chapters also explore the latest advances in cloning, stem cells, endocrinology, clinical reproductive medicine and genomics. As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life, this book provides the most extensive and authoritative reference within the field. Provides a one-stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics, from basic, to clinical considerations, including evolutionary advances in molecular, cellular, developmental and clinical sciences Includes multimedia and interactive teaching tools, such as downloadable PowerPoint slides, video content and interactive elements, such as the Virtual Microscope
The Uterus CRC Press
Sexual Biology and Reproduction in Crustaceans covers crustacean reproduction as it deals with the structural morphology of the gamete-producing primary sex organs, such as the testis and ovary, the formation and maturation of gametes, their fusion during fertilization, and embryonic development that lead to the release of larvae. Constituting a diverse assemblage of animals, crustaceans are best known by their common representatives, such as shrimps, lobsters, and crabs, but also include many more less familiar, but biologically important forms. This work covers the variety of ways in which both male and female gametes are produced by evolving different sexual systems in crustaceans, the range of reproductive systems, and the accordingly, and highly diverse, mechanistic modes of sex determination. In addition, the book features such topics as genetic and environmental determinants in sex determination pattern, variability of mechanisms of fertilization among different species, the origin of different mating systems, the associated mating and brooding behaviors, and the adaptive ability to different environmental conditions with discussion on the evolutionary ecology of social and sexual systems in certain species, which have shown eusocial tendencies, similar to social insects. Marine species occupying diversified ecological niches in tropical and temperate zones reproduce under definitive environmental conditions. Therefore, reproductive ecology of different crustaceans inhabiting different ecological niches also constitutes another important aspect of the work, along with yolk utilization and embryogenesis leading to release of different larval forms, which reflect on their aquatic adaptability. Forms a valuable source of recent references on the current research in crustacean reproductive physiology Covers various mating and breeding systems, providing illustrative examples for sexual selection, parental care of developing eggs and embryos, and the evolution of other reproductive behaviors Features contributions written in the form of review articles, enabling readers to not only gain information in the respective subject, but also help them stimulate ideas in their chosen field of research Includes a glossary created by the author to define technical terms Demonstrates the ability of crustacean species to serve as useful model systems for other organisms, to investigate issues related to sexual conflict, mate choice, and sperm competition Discusses techniques in endocrine research to help researchers in aquaculture develop protocols in the control of reproduction
Animal Models and Human Reproduction John Wiley & Sons
This richly illustrated and superbly organized text/atlas is an excellent point-of-care resource for practitioners at all levels of experience and training. Written by global leaders in the field, *Imaging Anatomy: Brain and Spine* provides a thorough understanding of the detailed normal anatomy that underlies contemporary imaging. This must-have reference employs a templated, highly formatted design; concise, bulleted text; and state-of-the-art images throughout that identify the clinical entities in each anatomic area. Features more than 2,500 high-resolution images throughout, including 7T MR, fMRI, diffusion tensor MRI, and multidetector row CT images in many planes, combined with over 300 correlative full-color anatomic drawings that show human anatomy in the projections that radiologists use. Covers only the brain and spine, presenting multiplanar normal imaging anatomy in all pertinent modalities for an unsurpassed, comprehensive point-of-care clinical reference. Incorporates recent, stunning advances in imaging such as 7T and functional MR imaging, surface

and segmented anatomy, single-photon emission computed tomography (SPECT) scans, dopamine transporter (DAT) scans, and 3D quantitative volumetric scans. Places 7T MR images alongside 3T MR images to highlight the benefits of using 7T MR imaging as it becomes more widely available in the future. Presents essential text in an easy-to-digest, bulleted format, enabling imaging specialists to find quick answers to anatomy questions encountered in daily practice.
Reproductive Biology of Invertebrates: Progress in asexual reproduction Elsevier
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
Human Reproduction Oxford University Press
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.
Academic Press
When it comes to reproduction, gymnosperms are deeply weird. Cycads and co- fers have drawn out reproduction: at least 13 genera take over a year from polli- tion to fertilization. Since they don ’ t apparently have any selection mechanism by which to discriminate among pollen tubes prior to fertilization, it is natural to wonder why such a delay in reproduction is necessary. Claire Williams ’ book celebrates such oddities of conifer reproduction. She has written a book that turns the context of many of these reproductive quirks into deeper questions concerning evolution. The origins of some of these questions can be traced back Wilhelm Hofmeister ’ s 1851 book, which detailed the revolutionary idea of alternation of generations. This alternation between diploid and haploid generations was eventually to become one of the key unifying ideas in plant evolution. Dr. Williams points out that alter- tion of generations in conifers shows strong divergence in the evolution of male and female gametes, as well as in the synchronicity of male and female gamete development. How are these coordinated to achieve fertilization? Books on conifer reproduction are all too rare. The only major work in the last generation was Hardev Singh ’ s 1978 *Embryology of Gymnosperms*, a book that summarized the previous century ’ s work. Being a book primarily about embry- ogy, it stopped short of putting conifer reproduction in a genetic or evolutionary context.
European Journal of Obstetrics & Gynecology and Reproductive Biology John Wiley & Sons
The *Reproductive Biology of Bats* presents the first comprehensive, in-depth review of the current knowledge and supporting literature concerning the behavior, anatomy, physiology and reproductive strategies of bats. These mammals, which occur world-wide and comprise a vast assemblage of species, have evolved unique and successful reproductive strategies through varied anatomical and physiological specialization. These are accompanied by individual and/or group behavioral interactions, usually in response to environmental mechanisms essential to their reproductive success. Is the first book devoted to the reproductive biology of bats Contains in-depth reviews of the literature concerned with bat reproduction Contributors are widely recognized specialists Provides a powerful database for future research
Seizing the Means of Reproduction John Wiley & Sons
This is the sixth volume of a ten-volume series on *The Natural History of the Crustacea*. The volume synthesizes in nineteen chapters our current understanding of diverse topics in crustacean reproductive biology. In the first part of this book, the chapters address allocation strategies to reproduction, gamete production, brooding behavior, and other components of parental care in crustaceans. The second part of the volume centers on sexual systems in crustaceans. The third section of the volume covers crustacean mating systems and sexual selection. *Reproductive Biology* ends with three chapters covering diverse topics including reproductive rhythms, crustacean personality research, and record breaking crustaceans with respect to reproductive characters.
Manual of Equine Reproduction - E-Book CRC Press
This timely resource offers extensive discussions on the pharmacological, environmental, endocrinological, and natural factors that alter reproductive or developmental processes-elucidating the effects of toxicants on mechanisms of reproduction. Describing biological actions common to both genders as well as gender-specific processes, *Reproducti Human Reproductive Biology* Academic Press
This acclaimed text has been fully revised and updated, now incorporating issues including aging of the reproductive system, and updates on the chapters on conception and Gamete Transport and Fertilization, and Pregnancy. *Human Reproductive Biology*, Third Edition emphasizes the biological and biomedical aspects of human reproduction, explains advances in reproductive science and discusses the choices and concerns of today. Generously illustrated in full color, the text provides current information about human reproductive anatomy and physiology. The ideal book for courses on human reproductive biology - includes chapter introductions, sidebars on related topics of interest, chapter summaries and suggestions for further reading. All material

completely updated with the latest research results, methods, and topics now organized to facilitate logical presentation of topics New chapters on Reproductive Senescence, Conception: Gamete Transport, Fertilization, Pregnancy: Maternal Aspects and Pregnancy: Fetal Development Full color illustrations Molecular and Cellular Mechanisms in Reproduction and Early Development John Wiley & Sons

Biology and Physiology of Freshwater Neotropical Fish is the all-inclusive guide to fish species prevalent in the neotropical realm. It provides the most updated systematics, classification, anatomical, behavioral, genetic, and functioning systems information on freshwater neotropical fish species. This book begins by analyzing the differences in phylogeny, anatomy, and behaviour of neotropical fish. Systems such as cardiovascular, respiratory, renal, digestive, reproductive, muscular, and endocrine are described in detail. This book also looks at the effects of stress on fish immune systems, and how color and pigmentation play into physiology and species differentiation. Biology and Physiology of Freshwater Neotropical Fish is a must-have for fish biologists and zoologists. Students in zoology, ichthyology, and fish farming will also find this book useful for its coverage of some of the world ’ s rarest and least-known fish species. Features chapters written by top neotropical fish researchers and specialists Discusses environmental effects on neotropical fishes, including climate change and pollution Details the phylogenetic occurrence of electroreceptors and electric organs in fish

Reproduction Elsevier Health Sciences

Epigenetics and Reproductive Health, a new volume in the Translational Epigenetics series, provides a thorough overview and discussion of epigenetics in reproduction and implications for reproductive medicine. Twenty international researchers discuss epigenetic mechanisms operating during the formation of male and female gametes, fertilization and subsequent embryo and placental development, particularly in mammals and transgenerational epigenetic inheritance. This volume also addresses aberrant epigenetic changes influencing male and female infertility, pregnancy related disorders, and those potentially linked to therapeutic manipulations and assisted reproductive technologies. Emphasis is placed on identifying biomarkers for early detection of aberrant epigenetic mechanisms. Later chapters examine the possibility of correcting these epigenetic dysfunctions, as well as current challenges and next steps in research, enabling new translational discoveries and efforts towards developing therapeutics. Thoroughly examines the influence of aberrant epigenetics during gametogenesis and embryogenesis, affecting parents, gametes and embryos, offspring and future generations Explores health outcomes for reproductive senescence, endocrine disruption, testicular cancer, prostrate cancer, breast cancer, ovarian, cancer, endometrial cancer and cervical cancers Features chapter contributions from international researchers in the field

Reproductive and Developmental Toxicology Cambridge University Press

The Research Topic aims to support progress towards understanding the different sets of developmental processes that are absolutely required to complete all the steps essential for successful embryonic development, under physiological conditions. We sought contributions that dealt with single cells, interaction between cells as well as intra- and extracellular signal transduction. The Research Topic presents original studies covering experimental and theoretical approaches, descriptions of new methodologies, reviews and opinions.

Mechanisms of Hormone Action Springer Science & Business Media

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

Comparative Reproductive Biology Cognella Academic Publishing

An essential, up-to-date textbook for postgraduate trainees preparing for the EBCOG Fellowship exam.

Assisted Reproduction Techniques Springer Science & Business Media

Reproductive Biology of the Crocodylia is based on over 40 years of research on global crocodiles, alligators, and caimans. It brings together data and information previously scattered across publications to synthesize knowledge of the history, ecology, physiology, and anatomy as it relates to the reproductive biology of crocodilians. The book begins with a deep look into the evolutionary history of Crocodylia species, dating back to some of the first research conducted in Ancient Egypt, and provides a comprehensive look at the physiology, current taxonomy, ecology, and sexual maturity factors of these reptiles. It then delves into detail regarding the anatomy and the cycles of both male and female reproduction systems, including nesting and incubation, temperature-dependent sex determination, and sex ratios across various species populations. This book also focuses on conservation efforts to protect the reproductive cycle of the Crocodylia, taking factors such as pollution, climate change, and human disruption into consideration. Reproductive Biology of the Crocodylia is the ideal resource for wildlife biologists and herpetologists seeking up-to-date and thorough research data on Crocodylia conservation efforts. This book is also helpful for exotic animal veterinarians, zookeepers, and alligator or crocodile farmers.

Reproductive Biology of the Crocodylia The Biology of Reproduction

Crustaceans adapt to a wide variety of habitats and ways of life. They have a complex physiological structure particularly with regard to the processes of growth (molting), metabolic regulation, and reproduction. Crustaceans are ideal as model organisms for the study of endocrine disruption and stress physiology in aquatic invertebrates. This book is an overview of the extensive research that has taken place over the recent years on issues of crustacean reproduction.

Oxford Reviews of Reproductive Biology Academic Press

Now in full color, Manual of Equine Reproduction, 3rd Edition provides a comprehensive look at the reproductive management of horses, including management of stallions, pregnant mares, and neonatal foals. Expert authors use a concise, practical approach in discussing improved therapies and treatments in equine breeding. You ’ ll enhance your skills and knowledge with this book ’ s detailed coverage of techniques used in reproductive examination, breeding procedures, pregnancy diagnosis, foaling, and reproductive tract surgery. A clinical emphasis includes a step-by-step format of possible scenarios from conception to breeding management. Practical information includes topics such as breeding with transported cooled or frozen semen, and caring for the broodmare and newborn foal. The organization of material corresponds to the course of study in veterinary school, so you can find topics easily. Chapter objectives and study questions at the beginning of each chapter guide you through the material and provide clear learning goals. Evaluation of Breeding Records chapter covers the importance of breeding records, and how to use them to evaluate stallion performance and optimize fertility. References are listed at the end of each chapter for further research and study. Full-color photographs and illustrations clearly depict procedures, and all drawings have been redrawn and improved. NEW Assisted Reproductive Technology chapter goes beyond embryo transfer. Updated content includes the latest advances in therapies and treatments. New content is added to two chapters, Reproductive Physiology of the Nonpregnant Mare and Manipulation of Estrus in the Mare. Thorough coverage of every aspect of equine reproduction provides a strong foundation for

success in veterinary practice, including a discussion of the use of GnRH-analog deslorelin (Ovuplant) to hasten ovulation; aseptic technique for endometrial biopsy; use of transabdominal ultrasonography, especially in early pregnancy; determination of fetal gender by transrectal ultrasonography; aspiration testicular biopsy using a spring-loaded biopsy instrument; and procedure for surgical embryo transfer.

Encyclopedia of Reproduction Gulf Professional Publishing

Mechanisms of Hormone Action: A NATO Advanced Study Institute focuses on the action mechanisms of hormones, including regulation of proteins, hormone actions, and biosynthesis. The selection first offers information on hormone action at the cell membrane and a new approach to the structure of polypeptides and proteins in biological systems, such as the membranes of cells. Discussions focus on the cell membrane as a possible locus for the hormone receptor; gaps in understanding of the molecular organization of the cell membrane; and a possible model of hormone action at the membrane level. The text also ponders on insulin and regulation of protein biosynthesis, including insulin and protein biosynthesis, insulin and nucleic acid metabolism, and proposal as to the mode of action of insulin in stimulating protein synthesis. The publication elaborates on the action of a neurohypophysial hormone in an elasmobranch fish; the effect of ecdysone on gene activity patterns in giant chromosomes; and action of ecdysone on RNA and protein metabolism in the blowfly, Calliphora erythrocephala. Topics include nature of the enzyme induction, ecdysone and RNA metabolism, and nature of the epidermis nuclear RNA fractions isolated by the Georgiev method. The selection is a valuable reference for readers interested in the mechanisms of hormone action.

Hormones in Human Reproduction Cambridge University Press

In vitro fertilization (IVF) and other assisted reproductive technologies (ART) have become a significant part of human reproduction, with already one in 50 children worldwide being born through ART and the demand steadily increasing. To accommodate the various kinds of infertility problems, new methods have been developed to increase IVF and ART success rates and it has also become possible to treat sperm, eggs, and embryos in culture to improve reproductive success, to increase the health state of an embryo, and to prevent disease in the developing child. Human Reproduction: Updates and New Horizons focuses on recent developments and new approaches to study egg and sperm cells and embryo development, as well as addressing the increasing demand for IVF and ART to overcome infertility problems of various kinds that are encountered by an increasing number of couples worldwide. The book includes 10 chapters written by experts in their specific fields to provide information on sperm selection techniques and their relevance to ART; In vitro maturation of human oocytes: current practices and future promises; Molecular biology of endometriosis; Novel immunological aspects for the treatment of age-induced ovarian and testicular infertility, other functional diseases, and early and advanced cancer immunotherapy; Mitochondrial manipulation for infertility treatment and disease prevention; Novel imaging techniques to assess gametes and preimplantation embryos; Clinical application of methods to select in vitro fertilized embryos; New horizons/developments in time-lapse morphokinetic analysis of mammalian embryos; The non-human primate model for early human development; Cytoskeletal functions, defects, and dysfunctions affecting human fertilization and embryo development. This book will appeal to a large interdisciplinary audience, including researchers from both the basic science and medical communities. It will be a valuable reference for IVF clinicians, patients and prospective patients who are considering ART procedures, embryologists, cell biologists and students in the field of reproduction.