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# Biology Of Reproduction Journal

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*Reproductive Biology and Phylogeny of Cetacea: Whales, Porpoises and Dolphins*

John Wiley & Sons

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.

**Reproductive Biology of Bats**  
Cambridge University 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 Tropical Diseases Bulletin Cambridge University Press The order Cetacea comprises some amazing species, representing some of the most evolved creatures that inhabit this earth. Yet, they also represent a group of species for which much remains unknown. There are over 80 species of

cetaceans composed of porpoises, dolphins and whales. This volume represents the latest of published and previously unpublished information regarding cetacean reproductive biology and phylogeny.

### **Reproductive Biology and Medicine** Academic 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.

### **Human Reproductive Biology** Cognella Academic Publishing

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

### **Reproductive Biology of Crustaceans**

Springer Science & Business Media  
An essential, up-to-date textbook for postgraduate trainees preparing for the EBCOG Fellowship exam.

### **Biology and Physiology of Freshwater**

**Neotropical Fish** Elsevier

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.

*Encyclopedia of Reproduction* Elsevier Health Sciences

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 Anatomy and Physiology* The Biology of Reproduction  
The Reproductive Biology of Bats presents the first comprehensive, in-depth review of the current knowledge and supporting

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literature concerning the behavior, anatomy, physiology and reproductive strategies of bats. These mammals, which occur worldwide 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

Molecular Biology of the Male Reproductive System Academic Press

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.

Reproductive Biology of Invertebrates: Progress in asexual reproduction Academic 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

John Wiley & Sons

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 Reproductive Physiology of Marsupials Oxford University Press, USA 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

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anatomy as it relates to the reproductive biology of crocodylians. 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.

**The Biology of Reproduction** Academic

Press  
Assisted reproduction techniques have led to the birth of 4 million babies worldwide. Assisted reproduction techniques (ART), in particular in-vitro fertilization and intra-cytoplasmic sperm injection, are the most advanced forms of infertility treatment. They involve numerous counseling, medical, surgical and laboratory-based steps. At each step various problems and complications could be encountered that challenge even the most experienced ART practitioners. Moreover, patients with complex medical disorders may require ART, presenting further challenges. *Assisted Reproduction Techniques* will stimulate resourceful thinking in the ART practitioner when faced with these challenges. It outlines various management options, the reasoning behind them, and the evidence on which they are based to enable the practitioner to choose the most suitable solution for the needs of each patient. Written by 122 internationally renowned experts, *Assisted Reproduction Techniques* follows the patient's journey throughout the whole ART process, with chapters on:

Counseling and preparation  
Ovarian stimulation  
Oocyte retrieval  
Embryo transfer  
The luteal phase  
The ART laboratory  
The male patient  
The ART pregnancy  
Each of the 100 concise chapters includes clinical cases, background, evidence-based practical management options, preventive measures and key-point summaries of the important details. *Assisted Reproduction Techniques* gives a wide-ranging practical guide to all those wishing to support couples who cannot conceive naturally.  
*Epigenetics and Reproductive Health* Springer Science & Business Media  
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.

### **Hormones in Human Reproduction**

Oxford University Press, USA

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.

### Reproductive and Developmental Toxicology

Elsevier

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

### **European Journal of Obstetrics & Gynecology and Reproductive Biology**

CRC Press

When it comes to

reproduction, gymnosperms are deeply weird. Cycads

and co- ferns 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 alternation 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 embryology, it stopped short of

putting conifer reproduction in a genetic or evolutionary context.

### **Molecular and Cellular Mechanisms in Reproduction and Early Development** John Wiley & Sons

*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, prostate cancer, breast cancer, ovarian cancer, endometrial cancer and cervical cancers. Features chapter contributions from international researchers in the field.

### **Human Reproductive Physiology** Elsevier Health Sciences

*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,

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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.