

Biology Of Reproduction Journal

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Reproductive Biology of Crustaceans

These proceedings present the latest achievements and developments within the scientific community of fur animal research organised by the International Fur Animal Scientific Association (IFASA). The book contains papers on the following topics: nutrition, feeding and management, health and disease, breeding, genetics and reproduction, behaviour and welfare and a theme on 'Welfare for mink and foxes'. The scientific results presented do not only come from traditional mink producing countries, but also from countries with more recent developments in fur animal production. The scientific community in the field of fur animal production is small, but the biologic diversity and thus the need for scientifically based knowledge in this area is similar to, or often exceeds, that of other farm animals. In this book, the most diverse and recent advancements in fur animal production were brought together in order to provide a clear overview for all those involved in the fur animal industry.

The Movement for Reproductive Justice

The Fourth Edition of Knobil & Neill continues to serve as a reference aid for research, to provide the historical context to current research, and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction. In the decade since the publication of

the last edition, the study of reproductive physiology has undergone monumental changes. Chief among these advances are in the areas of stem cell development, signaling pathways, the role of inflammation in the regulatory processes in the various tissues, and the integration of new animal models which have led to a greater understanding of human disease. The new edition synthesizes all of this new information at the molecular, cellular, and organismal levels of organization and present modern physiology a more understandable and comparative context. The Fourth Edition has been extensively revised, reflecting new fundamental advancements in this rapidly advancing field. Provides a common language for researchers across the fields of physiology, endocrinology, and biology to discuss their understanding of reproduction. Saves academic researchers time in quickly accessing the very latest details on reproductive physiology, as opposed to searching through thousands of journal articles.

Genetic Sex Differentiation in Fish

As a continuation of the earlier volumes in this series, the proceedings of the Eighth International Conference provide authoritative and up-to-date information on pig reproduction research. This volume, which contains manuscripts accompanying the state-of-the art lectures, the parallel sessions, and the expanded abstracts, provides an authoritative and up-to-date source of information on research in pig reproduction. This text is an invaluable resource for students, teachers, veterinarians, animal scientists,

consultants, and technologists with an interest in all aspects of pig reproduction.

Essential Reproduction

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.

Proceedings of the Xth International Scientific Congress in Fur Animal Production

Providing essential reading for medical, veterinary and biological science students, and students of physiology and trainees in obstetrics and gynaecology, the seventh edition of Essential Reproduction offers an up-to-date account of the fundamentals of reproduction within the context of cutting-edge knowledge and examples of its application. It provides a multidisciplinary approach integrating physiology, genetics, behaviour, anatomy and clinical science, to give thorough coverage of the study of mammalian reproduction. Essential Reproduction is now accompanied by the Wiley E-

Text: Powered by VitalSource, and includes: The latest on conceptual, informational and applied aspects of reproduction A new structure offering a more logical approach to study and revision Expanded further reading suggestions to support research A companion website at www.essentialreproduction.com features all of the images from the book to download – perfect for instructor and student support. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from Google Play or the MedHand Store.

Molecular and Cellular Mechanisms in Reproduction and Early Development

A unique interdisciplinary overview of the way mammals reproduce, this volume synthesizes research done by laboratory physiologists, behaviorists, population ecologists, and animal breeders. F. H. Bronson has drawn together the disparate literature in these areas to provide students and researchers with a comprehensive and biologically integrated approach to the study of mammalian reproduction. Each chapter presents a wealth of issues and questions, summarizing the current consensus on interpretations as well as viable alternatives under debate. The book is principally concerned with how environmental factors regulate reproduction. Bronson proposes that a mammal's reproductive performance routinely reflects simultaneous regulation by several environmental factors that interact in fascinatingly complex ways. Environment is defined broadly, and the chapters give

equal weight to ecological and physiological factors when considering how variables such as food availability, ambient temperature, photoperiod, and social cues interact to regulate a mammal's reproduction. Particular attention is given to seasonal breeding, and a taxonomically arranged chapter underscores the importance of comparative and evolutionary biology to an understanding of mammalian reproduction. *Mammalian Reproductive Biology* is a powerful argument for the value and importance of interdisciplinary approaches to research. Its almost 1,500 references constitute the most comprehensive bibliography to date on this topic. Bronson also gives detailed consideration to promising areas for future research. Well organized, carefully planned, and clearly written, this book will become standard reading for scientists concerned with any aspect of mammalian biology.

The End of Sex and the Future of Human Reproduction

Seizing the Means of Reproduction

Essential Reproduction provides an accessible account of the fundamentals of reproduction within the context of cutting-edge knowledge and examples of its application. The eighth edition of this internationally best-selling title provides a multidisciplinary approach integrating anatomy, physiology, genetics, behaviour, biochemistry, molecular biology and clinical science, to give

thorough coverage of the study of mammalian reproduction. Key features: Contains discussion of the latest on conceptual, informational and applied aspects of reproduction New pedagogical features such as clinical case studies at the end of each chapter Better use of boxed material to improve separation of narrative text from ancillary information Highlighted key words for ease of reference relate to summary of key points Introduction now split into two sections Expanded content in Fetal challenges, and Society and reproduction Substantial rearrangement and updating in Making sperm, Controlling fertility, and Restoring fertility

Surgical Anatomy of the Internal Carotid Artery

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

Comparative Reproductive Biology

The most comprehensive review available today, Marshall's Physiology of Reproduction is the classic reference source for teachers and researchers of animal reproduction. Internationally recognised leaders in their respective fields provide an analytical synopsis of the area, review current research and outline their philosophical approach to the subject. Volume 3 of the fourth edition reviews the processes of pregnancy and lactation in mammals, incorporating marsupials, non-primate eutherians and primates including man. Book one covers pregnancy from ovulation to pre-parturition, book two reviews fetal physiology, parturition and lactation. The extensive coverage of the physiology of human reproduction and lactation makes this volume a particularly important reference source for researchers in human fertility control, while the review of large animal reproduction is relevant to veterinary and para-veterinary workers.

Human Reproductive Genetics

This atlas provides all the basic and advanced information required by surgeons in order to understand fully the skull base anatomy. It is organized according to anatomo-surgical pathways to the hidden areas of the skull base. These pathways are described in step-by-step fashion with the aid of a

wealth of color images and illustrations. The emphasis is on endoscopic anatomy, but in order to provide a holistic perspective, informative three-dimensional reconstructions are presented alongside the endoscopic images and radiologic images are included when appropriate. In effect, windows are opened on the anatomy so that the reader is guided on a journey throughout the skull base region. This anatomically oriented atlas will serve as an ideal learning tool for novice surgeons and will also prove an invaluable reference for the more experienced surgeon

Reproductive Biology of Bats

Invertebrate Embryology and Reproduction deals with the practical and theoretical objectives of the descriptive embryology of invertebrates, along with discussions on reproduction in these groups of animals. It explains several morphological and anatomical expressions in the field and covers the embryology of invertebrate animals, starting from the Protozoa, to the Echinodermata, the Protochordate and Tunicates. These groups include economically important aquatic invertebrates, such as crustaceans, as well as medically important invertebrates and economic arthropods. Each chapter is preceded by the taxonomy of the discussed phylum and/or the species to enable the reader to locate the systematic position. Covers phylum definition, general characteristics, classification, reproduction, agametic reproduction, gametic reproduction, spawning, fertilization, development and embryogenesis

Includes recent findings in the area, along with detailed figures and photos that illustrate important concepts Brings together difficult-to-obtain research data from the field, not only in Egyptian libraries, but globally, and previously only found through specialized references not widely available Clarifies descriptions with striking photos and electron microscopical studies of different species

The Paradox of Evolution

The proposed book on progress in human reproduction will focus on recent developments and new approaches to study egg and sperm cells and embryo development and it will address the increasing demand for in vitro fertilization (IVF) and assisted reproductive technologies (ART) to overcome infertility problems that are encountered by an increasing number of couples worldwide. It will include 30-40 chapters written by experts in their specific fields to provide information on in vitro sperm and egg preparations; in vitro oocyte maturation; in vitro fertilization; in vivo and in vitro development of spermatozoa and oocytes; assessment of sperm and oocyte quality; cell and molecular biology of sperm and egg cells; cryopreservation of sperm, eggs, embryos, and reproductive tissue; Assisted Reproductive Technologies (ART) including intracytoplasmic sperm injection (ICSI); pre-implantation development; post-implantation development; genetic and epigenetic considerations; production of embryonic stem cells for patient-specific therapies; microinjection of specific factors for

molecular therapies; and others.

Invertebrate Embryology and Reproduction

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

Reproductive Genomics in Domestic Animals

This insightful and thought-provoking compilation describes the rapid advances that have revolutionised reproductive medicine and looks ahead at exciting new prospects for the future that stand at the watershed between basic science and clinical application. From oogenesis and spermatogenesis, through to fertilisation, embryogenesis, and cloning, this volume looks at cutting-edge technologies and scientific advances. Subsequent chapters focus on infertility and its diagnosis and treatment. A concluding section surveys the impact of these developments on the provision, regulation and financing of reproductive health care in the global community.

Encyclopedia of Reproduction

Awarded the W. W. Howells Award for the Outstanding Book in Biological Anthropology, this volume presents a comprehensive, integrated, and up-to-date overview of the major physiological and behavioral factors affecting human reproduction. In attempting to identify the most important causes of variation in fertility within and among human populations, Wood summarizes data from a wide range of societies. Trained as an anthropologist as well as a demographer, he devotes special attention to so-called "natural fertility" populations, in which modern contraceptives and induced abortion are not used to limit reproductive output. Such an emphasis enables him to study the interaction of biology and behavior with particular clarity. The volume weaves together the physiological, demographic, and

biometric approaches to human fertility in a way that will encourage future interdisciplinary research. Instead of offering a general overview, the focus is to answer one question: Why does fertility and the number of live births vary from couple to couple within any particular population, and from population to population across the human species as a whole? Topics covered include ovarian function, conception and pregnancy, intrauterine mortality, reproductive maturation and senescence, coital frequency and the waiting time to conception, marriage patterns and the initiation of reproduction, the fertility-reducing effects of breastfeeding, the impact of maternal nutrition on reproduction, and reproductive seasonality. This unique combination of comprehensive subject matter and an integrated analytical approach makes the book ideally suited both as a graduate-level textbook and as a reference work.

List of Journals Indexed for MEDLINE

Issues in Reproductive Medicine Research / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Reproductive Medicine Research. The editors have built Issues in Reproductive Medicine Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Reproductive Medicine Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in

Reproductive Medicine Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Reproduction in Mammals

Assisted Reproductive Technology

Human Reproductive Genetics: Emerging Technologies and Clinical Applications presents a great reference for clinicians and researchers in reproductive medicine. Part I includes a brief background of genetics and epigenetics, probability of disease, and the different techniques that are being used today for analysis and genetic counseling. Part II focuses on the analysis of the embryo, current controversies and future concepts. Part III comprises different clinical scenarios that clinicians frequently face in practice. The increasing amount of genetic tests available and the growing information that patients handle makes this section a relevant part of the fertility treatment discussion. Finally, Part IV concludes with the psychological aspects of genetic counseling and the role of counselor and bioethics in human reproduction. Provides an essential reference

for clinicians involved in reproductive medicine Builds foundational knowledge on new genetic tests coming into the clinical scenario for physicians involved with patients Assembles critically evaluated chapters that cover basic concepts of genetics and epigenetics and the techniques involved, including preimplantation genetic testing, controversies, and more

Asdell's Patterns of Mammalian Reproduction

A comprehensive study of sex differentiation gonochoric and hermaphroditic fishes, this book examines sex chromosomes and sex determining genes, emphasizing the need to search for more than one sex-determining gene residing on different chromosomes. It traces the origin of hermaphrodites from secondary gonochores and explains the conservation of homologous sex differentiation and steroid receptor genes among gonochores and hermaphrodites. The author identifies the optimal broodstock size and the appropriate candidate species for bait. He shows that the analysis of steriles and mutants has demonstrated the value of fishes as a system for genetic dissection of human development and diseases.

Knobil and Neill's Physiology of Reproduction

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

Human 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

Reproductive Biology of Teleost Fishes

The series provides an essential source of information

for all trainees in obstetrics, gynaecology, andrology and reproductive medicine, and will also be of interest to reproductive biologists and geneticists, physiologists and endocrinologists.

Marshall's Physiology of Reproduction

A Scientific Book Club selection, this comprehensive account of the nature and function of the hormones in the processes of sex and reproduction. Originally published in 1942. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Hormones in Human Reproduction

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

The Uterus

Aspects of reproduction covered in this volume include classification and phylogeny as revealed by molecular biology; anatomy of the male reproductive tract and organs; anatomy and evolution of copulatory structures; development and anatomy of the female reproductive tract; endocrinology of reproduction; ovarian dynamics and follicle development; spermatogenesis and testicular cycles; avian spermatozoa: structure and phylogeny; testis size, sperm size and sperm competition and lastly, fertilization.

Sexual Biology and Reproduction in Crustaceans

Within twenty, maybe forty, years most people in developed countries will stop having sex for the purpose of reproduction. Instead, prospective parents will be told as much as they wish to know about the genetic makeup of dozens of embryos, and they will pick one or two for implantation, gestation, and birth. And it will be safe, lawful, and free. In this work of

prophetic scholarship, Henry T. Greely explains the revolutionary biological technologies that make this future a seeming inevitability and sets out the deep ethical and legal challenges humanity faces as a result. "Readers looking for a more in-depth analysis of human genome modifications and reproductive technologies and their legal and ethical implications should strongly consider picking up Greely's *The End of Sex and the Future of Human Reproduction*[It has] the potential to empower readers to make informed decisions about the implementation of advancements in genetics technologies." —Dov Greenbaum, *Science* "[Greely] provides an extraordinarily sophisticated analysis of the practical, political, legal, and ethical implications of the new world of human reproduction. His book is a model of highly informed, rigorous, thought-provoking speculation about an immensely important topic." —Glenn C. Altschuler, *Psychology Today*

The Mouse; Its Reproduction and Development

This book examines a little-noted contradiction inherent in the two essential elements of Darwin's theory of biological evolution--natural selection and reproduction. Physiologist Stephen Rothman makes the revolutionary claim that the evolution of life's complex and diverse reproductive mechanisms is not the consequence of natural selection. In so doing, he exposes the deepest question possible about life's nature--its reason for being. In meticulously detailed but accessible terms he lays out the crux of the

paradox and offers an intriguing solution within a naturalistic framework. In an ostensibly purposeless universe, somehow purposeful life has evolved. For all living things there are two overarching purposes: survival and the creation of new life. Natural selection is about the survival of existing life, but has no interest in life's future, about whether it persists or perishes. By contrast, reproduction is only about the future of life, and has no interest in existing life except as a means to that end. Where do these purposes come from? As Rothman demonstrates, at every level life is wired to react to danger. Counterintuitively, without the danger to its existence, life would not have come into being. As for reproduction, nature's destructive forces drive the creation of new life. Written with great clarity and informed by deep learning, this elegant, thoughtful work tackles some of the most challenging questions raised by the theory of evolution, while calling to mind Darwin's famous words from the conclusion of *On the Origin of Species*: "There is a grandeur in this view of life."

Human Reproductive Biology

Since the appearance of the second edition of Sydney A. Asdell's widely used *Patterns of Mammalian Reproduction* in 1964, the field of reproductive physiology has expanded dramatically. Accordingly, this revision adopts a different structure from previous editions, substituting empirical delineations for physiological interpretations. With the emphases now on a presentation of the published facts of

mammalian reproduction, it provides a thorough compilation of what is known about the basic reproductive biology of each of the 4300 mammalian species. To gather information, the authors examined more than 20,000 publications, dating up to 1992. They used primary sources as much as possible, supplementing them with English translations of Russian, Finnish, Chinese, and Japanese journals. The data are presented in taxonomic order. Each familial account summarizes the pattern of reproduction for the family and provides lists of citations arranged by topic of the literature on the endocrinology, reproductive anatomy, and reproductive physiology of the family. Following each account is a tabular listing of species-specific data for neonatal mass and size, weaning mass and size, litter size, age at sexual maturity, estrous cycle length, gestation length, lactation length, number of litters per year, and seasonality of reproduction. For each of these reproductive variables, the range of data gleaned from the literature is given, together with the source of each value listed. Virginia Hayssen is Assistant Professor of Biology at Smith College. Ari Van Tienhoven is Professor of Animal Physiology, Emeritus, at Cornell University. Ans Van Tienhoven assisted in the compilation of data for the book.

A Guide to Reproduction

A primatologist explores the mystery of the origins of human reproduction, explaining that understanding the evolutionary past can provide insight into what worked, what didn't, and what it all means for the

future of mankind.

Issues in Reproductive Medicine Research: 2011 Edition

Shows how reproductive justice organizations' collaborative work across racial lines provides a compelling model for other groups to successfully influence change. Patricia Zavella experienced firsthand the trials and judgments imposed on a working professional mother of color: her own commitment to academia was questioned during her pregnancy, as she was shamed for having children "too young." And when she finally achieved her professorship, she felt out of place as one of the few female faculty members with children. These experiences sparked Zavella's interest in the movement for reproductive justice. In this book, she draws on five years of ethnographic research to explore collaborations among women of color engaged in reproductive justice activism. While there are numerous organizations focused on reproductive justice, most are racially specific, such as the National Asian Pacific American Women's Forum and Black Women for Wellness. Yet Zavella reveals that many of these organizations have built coalitions among themselves, sharing resources and supporting each other through different campaigns and struggles. While the coalitions are often regional—or even national—the organizations themselves remain racially or ethnically specific, presenting unique challenges and opportunities for the women involved. Zavella argues that these organizations provide a

compelling model for negotiating across differences within constituencies. In the context of the war on women's reproductive rights and its disproportionate effect on women of color, and increased legal violence toward immigrants, The Movement for Reproductive Justice demonstrates that a truly intersectional movement built on grassroots organizing, culture shift work, and policy advocating can offer visions of strength, resiliency, and dignity for all.

The Ovary: Physiology

In *Seizing the Means of Reproduction*, Michelle Murphy's initial focus on the alternative health practices developed by radical feminists in the United States during the 1970s and 1980s opens into a sophisticated analysis of the transnational entanglements of American empire, population control, neoliberalism, and late-twentieth-century feminisms. Murphy concentrates on the technoscientific means—the technologies, practices, protocols, and processes—developed by feminist health activists. She argues that by politicizing the technical details of reproductive health, alternative feminist practices aimed at empowering women were also integral to late-twentieth-century biopolitics. Murphy traces the transnational circulation of cheap, do-it-yourself health interventions, highlighting the uneasy links between economic logics, new forms of racialized governance, U.S. imperialism, family planning, and the rise of NGOs. In the twenty-first century, feminist health projects have followed

complex and discomfoting itineraries. The practices and ideologies of alternative health projects have found their way into World Bank guidelines, state policies, and commodified research. While the particular moment of U.S. feminism in the shadow of Cold War and postcolonialism has passed, its dynamics continue to inform the ways that health is governed and politicized today.

Mammalian Reproductive Biology

This reference work is designed to provide background information on an array of northeastern Pacific marine invertebrate species so that they can be more easily included in comparative studies of morphology, cell biology, reproduction, embryology, larval biology, and ecology. It is meant to serve biologists who are new to the field as well as experienced investigators who may not be familiar with the invertebrate fauna of the northern Pacific Coast. The species discussed in this volume are mostly from the cold temperate waters of the San Juan Archipelago, near Puget Sound and the Strait of Georgia, but the information and methods given will be useful in laboratories from Alaska to central California and applicable to some extent in other coastal or inland facilities. An introductory chapter discusses basic procedures for collecting and maintaining mature specimens, for initiating spawning, and for culturing embryos and larvae in the laboratory. Subsequent chapters summarize reproduction and development in thirty different invertebrate groups and provided recent references

through which additional information can be traced, cite monographs or keys needed to identify species, and give methods useful for studying an array of selected species. Available information on habitat, diet, reproductive mode, egg size, developmental pattern, developmental times, larval type, and conditions for settlement and metamorphosis is reported for over 450 species.

Reproductive Biology and Phylogeny of Birds, Part A:

Reproductive Genomics in Domestic Animals is a thorough examination of genomics in the livestock industry, encompassing genome sciences, genome biotechnology, and reproduction. Recent developments in molecular genetics and genomics have enabled scientists to identify and characterize genes contributing to the complexity of reproduction in domestic animals, allowing scientists to improve reproductive traits. Providing the livestock industry with essential tools for enhancing reproductive efficiency, Reproductive Genomics in Domestic Animals surveys the current status of reproductive genomes and looks to the future direction of research.

Dynamics of Human Reproduction

Series Editor: Peter Calow, Department of Zoology, University of Sheffield, England The main aim of this series will be to illustrate and to explain the way organisms 'make a living' in nature. At the heart of this - their functional biology - is the way organisms

acquire and then make use of resources in metabolism, movement, growth, reproduction, and so on. These processes will form the fundamental framework of all the books in the series. Each book will concentrate on a particular taxon (species, family, class or even phylum) and will bring together information on the form, physiology, ecology and evolutionary biology of the group. The aim will be not only to describe how organisms work, but also to consider why they have come to work in that way. By concentration on taxa which are well known, it is hoped that the series will not only illustrate the success of selection, but also show the constraints imposed upon it by the physiological, morphological and developmental limitations of the groups. Another important feature of the series will be its organismic orientation. Each book will emphasize the importance of functional integration in the day to-day lives and the evolution of organisms. This is crucial since, though it may be true that organisms can be considered as collections of gene determined traits, they nevertheless interact with their environment as integrated wholes and it is in this context that individual traits have been subjected to natural selection and have evolved.

Control of Pig Reproduction VIII

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

A Functional Biology of Parasitism

Essential Reproduction

Reproductive Biology of Teleost Fishes is the first integrated review of the reproductive biology of the bony fishes, which are the most species-rich and diversified group of vertebrates. Teleosts display remarkable variation in their modes of reproduction, and this volume is intended to provide a framework for understanding the remarkable reproductive

diversity of this group. It describes their reproductive biology using, wherever possible, phylogenetic analyses and life-history theory as a means to interpret the information. The book addresses the genetic, physiological, behavioural, ecological, evolutionary and applied aspects of teleost reproduction in a comparative framework that emphasises the adaptive basis of reproductive diversity. *Reproductive Biology of Teleost Fishes* provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists, particularly ecologists, evolutionary biologists, physiologists and advanced undergraduates, postgraduates and research workers requiring a comprehensive overview of fish reproduction. The book is suitable for courses in fish biology and ecology, reproductive physiology and reproductive genetics. It also addresses applied questions and will be of value for courses on fisheries science and aquaculture. Libraries in all universities and research establishments where biological sciences, fisheries science and aquaculture are studied and taught should have several copies of this important book on their shelves.

Reproduction and Development of Marine Invertebrates of the Northern Pacific Coast

The purpose of this comprehensive text is to increase awareness of human reproduction and its consequences. The central theme links reproductive capacity, the social consequences of the multiple

stresses this places on the environment and the ways this relates back to the reproductive health of humans and other animals. In the first section, the biology of human reproduction is discussed, including such topics as the treatment and causes of infertility, growth and maturation, parental behaviour and neonate biology. The effects of procreational biology on the foundation of human social structure are also examined. The second part deals with reproduction as it relates to health and social issues such as stress, fertility control, AIDS, teratogens and errors of sexual differentiation. It is an invaluable resource for all those wishing to update their knowledge of human reproductive biology.

How We Do It

"Newborn mammals can weigh as little as a dime or as much as a motorcycle. Some receive milk for only a few days, whereas others nurse for years. Humans typically have only one baby at a time following nine months of pregnancy, but other mammals have 20 or more young after only a few weeks in utero. What causes this incredible reproductive diversity?

Reproduction in Mammals is a fascinating examination of the diverse reproductive strategies of a broad spectrum of mammals and the ways in which natural selection has influenced that diversity. While accounts of reproduction in individual taxa abound, this unique book's comprehensive coverage gathers stories from many taxa into a single, cohesive perspective that centers on the reproductive lives of females. The authors shed light on intriguing

questions such as: Do bigger moms have bigger babies? Do primates have longer pregnancies than other groups? Do aquatic animals have particular patterns? Do carnivores like lions often produce larger litters than prey species? The book opens with the authors' definition of what constitutes a female perspective and an examination of the evolution of reproduction in mammals. It then outlines the individual female: her genetics, anatomy, and physiology. From this nuanced basis, the text progresses to mirror the female reproductive cycle and includes her interactions with males and offspring. The final section contextualizes the reproductive cycle within the rest of the world--both abiotic and biotic environments. To close, the authors include dedicated chapters on human concerns: conservation and women as mammals. Readers will come away from this thought-provoking book with an understanding not only of how reproduction fits into the lives of female mammals but also of how biology has affected the enormously diverse reproductive patterns of the phenotypes we observe today."-- Provided by publisher.

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