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Assisted Reproductive Technology Ashgate Publishing

This book presents the proceedings of a symposium held in honour of the enormous contribution made to the field of reproductive biology by Professor G.E. Lamming. This publication contains 15 papers presented at the symposium and covers recent advances in the field of ovarian function, pregnancy and parturition and the regulation of reproductive processes. Emphasis is given to the future directions that this field of research will take.

The Developmental Biology of Reproduction CRC Press

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.

Essential Reproduction Springer

Since the first "test tube baby" was born over 40 years ago, In Vitro Fertilization and other Assisted Reproductive Technologies (ARTs) have advanced in extraordinary ways, producing millions of babies. An estimated 20% of American couples use infertility services to help them conceive, and that number is growing. Such technologies permit thousands of people, including gay and lesbian couples and single parents, to have offspring. Couples can now transmit or avoid passing on certain genes to their children, including those for chronic disease and, probably sometime soon, height and eye color as well. Prospective parents routinely choose even the sex of their future child and whether or not to have twins. The possibilities of this rapidly developing technology are astounding-especially in the United States, where the procedures are practically unregulated and a large commercial market for buying and selling human eggs is swiftly growing. New gene-editing technology, known as CRISPR, allows for even more direct manipulation of embryos' genes. As these possibilities are increasingly realized, potential parents, doctors, and policy-makers face complex and critical questions about the use-or possible misuse-of ARTs. *Designing Babies* confronts these questions, examining the ethical, social, and policy concerns surrounding reproductive technology. Based on in-depth interviews with providers and patients, Robert Klitzman explores how individuals and couples are facing quandaries of whether, when, and how to use ARTs. He articulates the full range of these crucial issues, from the economic pressures patients face to the moral and social challenges they encounter as they make decisions which will profoundly shape the life of their offspring. In doing so, he reveals the broader social and biological implications of controlling genetics, ultimately arguing for closer regulation of procedures which affect the lives of generations to come and the future of our species as a whole.

The Biology of Reproduction CRC 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 w- der 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.

Mechanisms of Hormone Action Routledge

This text describes the rapid advances that have revolutionized reproductive medicine due to the result of converging and overlapping developments in reproductive biology, molecular biology and genetics.

Reproductive Biology and Early Life History of Fishes in the Ohio River Drainage Elsevier

Reproductive Biology and Taxonomy of Vascular Plants is a collection of papers presented at the Conference on Reproductive Biology and Taxonomy of Vascular Plants, held at the Department of Botany, University of Birmingham on April 23-25, 1965. The conference primarily explores the reproductive biology of flowering plants and ferns to arrive at a better understanding of variation

patterns and modes of evolution. This book is divided into six chapters and begins with a discussion on the breeding systems, variation and adaptation. The next chapters survey the practical implications of knowledge of breeding systems and other aspects of the reproductive biology of flowering plants, as well as the pollination mechanisms in orchids and the evolution of this family in relation to insect evolution. These chapters include an account of the foraging behavior of honey bees and its importance to the botanist in delineating the behavior of the insects that pollinate the plants. Other chapters deal with the mechanisms of plant dispersal and establishment, the aspects of seed dormancy, and germination and reproductive capacity related to evolutionary processes. The concluding chapters explore the many aspects of apomixis in its wider sense and survey how the variation patterns of apomicts were due to this special mode of reproduction. This book is directed primarily to botanists.

Knobil and Neill's Physiology of Reproduction Academic Press

Reproductive Biology of Plants is a comparative account of reproduction in viruses, bacteria, cyanobacteria, algae, fungi, lichens, bryophytes, pteridophytes, gymnosperms and angiosperms, each chapter written by an expert in the field. Special emphasis is placed on the truly comparative approach illustrating the vast range from simplicity to complexity in structure and function with respect to the various organisms.

Designing Babies Gulf Professional Publishing

The Developmental Biology of Reproduction documents the proceedings of the 33rd symposium of the Society for Developmental Biology. Reproductive Biology was selected as the main theme of the symposium. The symposium aimed to draw center attention on basic aspects of reproduction in both plants and animals in the hope of stimulating research that might provide the necessary foundation for effective, practical control of human reproduction. Five areas were selected for emphasis: the formation of eggs and sperm; the activation of the egg to develop into an embryo; the genetic and biochemical events underlying the early development of the embryo; the hormonal controls operating in the reproductive process; and the general control of implantation and growth of the mammalian embryo in the uterus. Thirteen reports were given by distinguished researchers in each of these areas. All biologists interested in a broad understanding of problems of reproduction will find this symposium interesting and important for their own work.

The Biodemography of Human Reproduction and Fertility Elsevier

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.

Human Reproduction Cambridge University Press

Reproductive biology is the basis of species improvement and a thorough understanding of this is needed for plant improvement, whether by conventional or biotechnological methods. This book presents an up to date and comprehensive description of reproduction in lower plants, gymnosperms and higher plants. It covers general plant biology, pollinatio

Reproductive Biology of the Crocodylia John Wiley & Sons

This second edition emphasizes the environmental impact on reproduction, with updated chapters throughout as well as complete new chapters on species such as sharks and rays. This is a wide-ranging book that will be of relevance to anyone involved in species conservation, and provides critical perspectives on the real utility of current and emerging reproductive sciences. Understanding reproductive biology is centrally important to the way many of the world ' s conservation problems should be tackled. Currently the extinction problem is huge, with up to 30% of the world ' s fauna being expected to disappear in the next 50 years. Nevertheless, it has been estimated that the global population of animals in zoos encompasses 12,000 – 15,000 species, and we anticipate that every effort will be made to preserve these species for as long as possible, minimizing inbreeding effects and providing the best welfare standards available. Even if the reproductive biology community cannot solve the global biodiversity crisis for all wild species, we should do our best to maintain important captive populations. Reproductive biology in this context is much more than the development of techniques for helping with too little or too much breeding. While some of the relevant techniques are useful for individual species that society might target for a variety of reasons, whether nationalistic, cultural or practical, technical developments have to be backed up by thorough biological understanding of the background behind the problems.

Reproductive Biology Springer Nature

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

Reproductive Biology of Crustaceans Elsevier

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* Bibliographics of chapters are extensive and cover all the relevant literature

Conifer Reproductive Biology Harvard University Press

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 on the history, ecology, physiology and anatomy of crocodylians. The book provides a comprehensive look at the physiology, current taxonomy, ecology and sexual maturity factors of these reptiles. It then delves into the anatomy and cycles of both male and female reproduction systems, including nesting and incubation, temperature-dependent sex determination, and sex ratios across various species populations. Finally, the book focuses on conservation efforts to protect the reproductive cycle, taking factors such as pollution, climate change, and human disruption into consideration. It is an ideal resource for wildlife biologists and herpetologists seeking up-to-date and thorough research data on conservation efforts. It will also be helpful for exotic animal veterinarians, zookeepers, and alligator or crocodile farmers. Focuses on crocodylian reproduction and how it is impacted by seasons, social interactions, pollution, and more Provides a thorough overview by a globally recognized expert on crocodylian reproduction and endocrinology Explores conservation efforts and offers insights for protecting crocodylian reproduction cycles against current factors, including pollution, environmental effects and human interference

[Knobil and Neill's Physiology of Reproduction](#) Springer Science & Business Media

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.

[Sexual Reproduction in Animals and Plants](#) Springer Science & Business Media

Reproduction is among the most basic of human biological functions, both for our distant ancestors and for ourselves, whether we live on the plains of Africa or in North American suburbs. Our reproductive biology unites us as a species, but it has also been an important engine of our evolution. In the way our bodies function today we can see both the imprint of our formative past and implications for our future. It is the infinitely subtle and endlessly dramatic story of human reproduction and its evolutionary context that Peter T. Ellison tells in *On Fertile Ground*. Ranging from the latest achievements of modern fertility clinics to the lives of subsistence farmers in the rain forests of Africa, this book offers both a remarkably broad and a minutely detailed exploration of human reproduction. Ellison, a leading pioneer in the field, combines the perspectives of anthropology, stressing the range and variation of human experience; ecology, sensitive to the two-way interactions between humans and their environments; and evolutionary biology, emphasizing a functional understanding of human reproductive biology and its role in our evolutionary history. Whether contrasting female athletes missing their periods and male athletes using anabolic steroids with Polish farm women and hunter-gatherers in Paraguay, or exploring the intricate choreography of an implanting embryo or of a nursing mother and her child, *On Fertile Ground* advances a rich and deeply satisfying explanation of the mechanisms by which we reproduce and the evolutionary forces behind their design.

On Fertile Ground Cambridge University Press

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.

Encyclopedia of Reproduction Springer Science & Business Media

Encyclopedia of Reproduction, Second Edition, Six Volume Set 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

Human Reproductive Biology CRC Press

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

[Human Reproduction and Developmental Biology](#) John Wiley & Sons

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