

Free pdf Human reproductive biology Full PDF

the fourth edition of human reproductive biology winner of a 2015 textbook excellence award texty from the text and academic authors association 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 this expansive text covers the full range of topics in human reproduction from the biology of male and female systems to conception pregnancy labor and birth it goes on to cover issues in fertility and its control population growth and family planning induced abortion and sexually transmitted diseases this is the ideal book for courses on human reproductive biology with chapter introductions sidebars on related topics chapter summaries and suggestions for further reading winner of a 2015 texty award from the text and academic authors association beautifully redrawn full color illustrations complement completely updated material with the latest research results and clear logical presentation of topics covers the basic science of reproduction endocrinology anatomy physiology development function and senescence of the reproductive system as well as applied aspects including contraception infertility and diseases of the reproductive system new companion website features full color illustrations as powerpoint and jpeg files for both professors and students to use for study and presentations 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 the fourth edition of human reproductive biology 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 this expansive text covers the full range of topics in human reproduction from the biology of male and female systems to conception pregnancy labor and birth it goes on to cover issues in fertility and its control population growth and family planning induced abortion and sexually transmitted diseases this is the ideal book for courses on human reproductive biology with chapter introductions sidebars on related topics chapter summaries and suggestions for further reading beautifully redrawn full color illustrations complement completely updated material with the latest research results and clear logical presentation of topics covers the basic science of reproduction endocrinology anatomy physiology development function and senescence of the reproductive system as well as applied aspects including contraception infertility and diseases of the reproductive system new companion website features full color illustrations as ppt and jpeg files for both professors and students to use for study and presentations human reproductive biology focuses on the processes concerns and trends in human reproduction divided into four parts with 19 chapters the book starts by tracing the history of human reproduction biology and the questions and choices involved the first part focuses on the male and

female reproductive systems the text notes the different organs involved in reproduction including the penis scrotum vagina oviducts and mammary glands the book discusses sexual development and differentiation particularly noting the variance of sex ducts and glands external genitalia and disorders of sexual development and determination the text also looks at puberty concerns include gonadal changes from birth to puberty mechanisms that influence puberty and puberty and psychosocial adjustment the second part deals with menstrual cycle fertilization pregnancy labor and birth some of the concerns include length of menstrual cycle absence of menstruation transport of sperm and ovum in the oviduct and semen release the text also highlights labor and birthing processes as well as the relationship of neonates and parents the third part looks at the medical aspects of human reproduction infertility and sexually transmitted diseases concerns include contraception abortion herpes genitalis and vaginitis the text folds with discussions on human sexual behavior population growth and family planning concerns include sexual dysfunction the effects of overpopulation and population control the book is a vital source of data for readers interested in human reproduction reproductive success is a very important objective to ensure the evolution of animal species in this sense interesting research has been carried out to clarify various aspects of reproduction in different animal species in this way recent advances in the knowledge of reproductive biology and biotechnology developed for both males and females have been key to improving efficiency in different aspects thus advances in the knowledge of sperm handling oocyte characteristics different genomic aspects related to somatic cell nuclear transfer and the reproductive microarchitecture system in sheep cows pigs and other invertebrates such as gastropods and fish are presented in this book additionally we also present the most relevant topics of each area making a detailed review of the knowledge reported to date 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 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 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 reproductive biology of invertebrates volume iii accessory sex glands edited by k g adiyodi accessory sex glands is the third volume in the encyclopaedic series and provides very valuable information some hitherto unpublished on the distribution structure origin physiology biochemistry pharmacology and evolution of the accessory sex glands in different groups of invertebrates volumes i and ii of this series published by wiley have given detailed accounts of the structure origin composition and physiology of female and male gametes and also provided some information on the mechanisms controlling their production the secretions of accessory sex glands are indispensable for several key aspects of gamete physiology and for successful fertilization and development in many internally fertilizing invertebrates interestingly enough accessory sex gland secretions are produced in some species at least under the influence of gonadotrophic hormones as are the gametes themselves the data on invertebrate accessory sex glands are scattered in various journals and have not been so far collected critically evaluated and published in book form this volume thus fills a void and serves as an indispensable corollary and companion to the two volumes that have already appeared on gametology in the series contents series preface preface to volume iii systematic resume of the invertebrates platyhelminthes turbellaria s s guraya and v r parshad nemertina m gontcharoff gnathostomulida marlene mainitz rotifera john j gilbert gastrotricha w d hummon and m r hummon nematoda l a fitzgerald and w eugene four acanthocephala david w t crompton mollusca n w runham annelida k g adiyodi onychophora hilke ruhberg and volker storch arthropoda crustacea k g adiyodi and g anilkumar arthropoda insecta cedric gillott arthropoda myriapoda j m demange pentastomida john riley species index subject index 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 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 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 cytogenetics is the study of the structure and function of the cell particularly chromosomes manual of cytogenetics in reproductive biology examines the diagnostic role of cytogenetics in improving the outcome of assisted reproductive technologies art divided into six sections the book begins with the basics of genetics followed by investigative cytogenetics applied cytogenetics recent advances preimplantation and prenatal cytogenetics this comprehensive guide includes nearly 200 clinical images diagrams and tables and is an invaluable reference for practising specialists in genetics infertility and obstetrics and gynaecology key points examines diagnostic role of cytogenetics in improving outcome of art six sections each providing in depth coverage of different aspects of cytogenetics includes nearly 200 clinical images diagrams and tables invaluable for specialists in genetics infertility and obsgy this book covers the major aspects of phylogeny and reproductive biology of frogs in chapters written by major authorities topics treated are anuran phylogeny classification and reproductive modes gross anatomy of the reproductive system oogenesis endocrinology of reproduction spermatogenesis and the mature spermatozoon breeding glands internal fertilization and sperm storage parental care general development and molecular development the comprehensive and authoritative guide to clinical reproductive science the field of clinical reproductive science continues to evolve this important resource offers the basics of reproductive biology as well as the most recent advance in clinical embryology the author a noted expert in the field focuses on the discipline and covers all aspects of this field the text explores causes of male and female infertility and includes information on patient consultation and assessment gamete retrieval and preparation embryo culture embryo transfer and cryopreservation comprehensive in scope the text contains an introduction to the field of clinical reproductive science and a review of assisted reproductive technology the author includes information on a wide range of topics such as gonadal development the regulation of meiotic cell cycle the biology of sperm and spermatogenesis in vitro culture embryo transfer techniques fundamentals of fertilisation oocyte activation and much more this important resource offers an accessible guide to the most current research and techniques to the science of clinical reproduction covers the fundamental elements of reproductive science includes information on male and the female reproductive basics everything from sexual differentiation to foetal development and parturition explores the long term health of children conceived through ivf contains the newest developments in assisted reproductive technology clinical reproductive science is a valuable reference written for professionals in academia research and clinical professionals working in the field of reproductive science clinical embryology and reproductive medicine 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 this book presents a comparative view of chelonian reproduction and discusses ecophysiological implications for their captive breeding chelonians with their protective rigid armour are a phylogenetically antique group of reptiles which radiated to occupy niches from the open waters of the oceans to rivers creeks swamps forests savannahs and deserts a few north american turtle species have been well studied but until recently reproductive data on other chelonian species have been scarce the way in which chelonians adjust their conservative mode of reproduction to the various requirements of their habitats and life styles is the theme of this book the physiology of reproduction and its interplay with ecological conditions are its central subjects this volume has been produced for the xi 11th eucarpia congress eucarpia the european association for plant breeding currently has 1 200 members including scientists and staff of both public and private organizations its aim is to promote scientific and technical research and cooperation in the field of plant breeding and thereby to contribute to the development of agriculture every three years eucarpia organizes a scientific congress in 1992 the xilith eucarpia congress will be held in angers france and the theme is reproductive biology and plant breeding reproduction of plant material is central to selection the geneticist the plant breeder and the seed grower all use sexual and vegetative reproduction during the various stages of plant breeding and creation of variety the possibility of unlimited interspecific reproduction the use of gametogenesis dysfunction the creation of auto and allogamy and the cloning of the best genotypes are the challenges before the plant breeder to understand how the reproductive system conditions the genetic structure of a population and to investigate the relationships between the reproductive mode and the organization of variability is a central key to genetic progress the articles presented in this book review the current state of knowledge of reproductive biology and its impact on variety creation a basic understanding of human genetics is vital for all those working in the field of assisted human reproduction genetic makeup can hamper reproduction and insight into this is making genetic diagnosis and counselling increasingly important this fully updated textbook continues the clear structure of the original edition beginning with a chapter on the basics of genetics and cytogenetics genetic causes of infertility and the effect of epigenetics and transposons on fertility are discussed in detail several new chapters are included in this edition reflecting the advances of the field including preconception genetic analysis and screening in ivf and mitochondrial genetics combining genetics reproductive biology and medicine this is an essential text for practitioners in reproductive medicine and geneticists involved in the field looking to improve their knowledge of the subject and provide outstanding patient care this book discusses the major accomplishments made in elucidating vitellogenic events at the cellular biochemical and molecular biological levels it is helpful for researchers and students interested in reproduction of invertebrates table of contents south america is one of the few areas of the world that includes vast areas of as yet undisturbed natural habitats these areas are home to as many as half the world's species of plants and animals many of the animals inhabiting these areas are of direct and immediate economic importance while others are of unknown potential value with economic development of these areas there is a coincident disruption of natural habitats that have a direct impact on the reproductive capabilities of the affected species reproduction is central to the survival of all species and regardless of the environmental stresses imposed on them scientific attention must be focused on reproductive biology as a way to deal with these pressures it is vitally important to gather as much research data as possible on the reproductive biology of the species on this continent in order to provide governmental agencies and scientists with the most accurate information on which to base decisions regarding development this volume is intended to draw attention to these pressing matters by gathering a wide representation of scientists actively engaged in reproduction research relating to south american vertebrates it is intended that this volume will serve as a resource for individuals and organizations interested in reproductive biology and species survival an additional benefit is that economically important species as well as potentially important

ones such as sharks will be discussed this book covers most aspects of human reproductive biology including basic reproductive anatomy and physiology neuroendocrinology environmental issues in reproductive toxicology impact and ethics of fertility control sexual behavior and human sexuality selected important issues are discussed in detail throughout the twelve chapters with information in such areas as gene regulation and molecular biology techniques recent controversies associated with aids homosexuality and ru486 are reviewed with the latest findings with elaborated diagrammatic illustrations human reproductive biology is an excellent textbook for advanced courses these diagrams are powerful teaching tools for instructors in helping students to understand and integrate the presented concepts the book is also designed to be used as a quick reference on this subject this volume contains original contributions from an international group of authors with the highest reputations in their respective areas of phylogenetic and reproductive studies on salamanders and newts a full panoply of topics is covered from morphology of gametes and reproductive systems to considerations of behavior and life history all placed in a phylogenetic context the chapters not only synthesize past literature but also present new observations and indicate directions for future research this is an essential text for anyone interested in the biology of urodele amphibians the animals loosely termed fish constitute more than half of all known vertebrate species there are approximately 27 000 described living species of bony fishes euteleostomi osteichthyes about 70 species of hagfishes and some 34 species of lampreys approximately 970 species are chondrichthyans the sharks and their relatives which were the mammalian endocrinology and male reproductive biology provides comprehensive and current coverage of the area of endocrinology and male reproductive biology covering not just humans but mammals in general written by international experts in their respective fields this multi author book also covers the latest developments in genomics of androgen action and male infertility the book begins by covering sexual dimorphism in the central nervous system structure control of secretion and function of gnRH and gonadotropins of pituitary origin and their role in gonadal functions this is followed by an account of hormonal regulation of spermatogenesis and the role of apoptosis in this process subsequent chapters center around epididymis regulation of growth and function and sperm motility regulation the last chapters in the book discuss the structure and function of male accessory sex glands with associated pathologies as well as recent updates in male contraception mechanism of androgen action and genomics of male infertility wherever necessary tables and figures have been added for a better understanding each chapter is appropriately referenced and contains current information on the latest developments in the field the mollusca volume 7 reproduction presents the significant features of reproduction for one of the significant major molluscan groups this book reviews the reproductive biology of land snails which offers the basis for making fascinating comparisons with other terrestrial groups in illustrating how evolutionary various groups solved their common problem of laying eggs organized into six chapters this volume begins with an overview of the reproductive biology of prosobranch gastropods this text then provides a comparative morphology of land snail reproductive anatomy other chapters consider the endocrine control of the female reproductive activity of *Lymnaea stagnalis* this book discusses as well the transition in intraspecific and interspecific sexuality the final chapter deals with cephalopod reproductive biology this book is a valuable resource for readers who are in need of more appropriate animal systems for solving research problems pertaining to general reproduction cytology sex determination biochemistry gamete biology neuroendocrinology and evolutionary biology 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 when it comes to reproduction gymnosperms are deeply weird cycads and conifers have drawn out reproduction at least 13 genera take over a year from pollination 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 designed to give comprehensive knowledge about the frontiers in reproductive biology a compilation of 25 chapters by distinguished scientists in the field of reproductive biology and a toxicology the chapters are grouped in 3 parts part i molecular biology of reproduction part ii contraception and part iii environment and reproduction

Human Reproductive Biology 2013-09-28

the fourth edition of human reproductive biology winner of a 2015 textbook excellence award texty from the text and academic authors association 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 this expansive text covers the full range of topics in human reproduction from the biology of male and female systems to conception pregnancy labor and birth it goes on to cover issues in fertility and its control population growth and family planning induced abortion and sexually transmitted diseases this is the ideal book for courses on human reproductive biology with chapter introductions sidebars on related topics chapter summaries and suggestions for further reading winner of a 2015 texty award from the text and academic authors association beautifully redrawn full color illustrations complement completely updated material with the latest research results and clear logical presentation of topics covers the basic science of reproduction endocrinology anatomy physiology development function and senescence of the reproductive system as well as applied aspects including contraception infertility and diseases of the reproductive system new companion website features full color illustrations as powerpoint and jpeg files for both professors and students to use for study and presentations

Comparative Reproductive Biology 2008-03-21

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

Reproductive Biology 1973-03-01

the fourth edition of human reproductive biology 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 this expansive text covers the full range of topics in human reproduction from the biology of male and female systems to conception pregnancy labor and birth it goes on to cover issues in fertility and its control population growth and family planning induced abortion and sexually transmitted diseases this is the ideal book for courses on human

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Human Reproductive Biology 1997

human reproductive biology focuses on the processes concerns and trends in human reproduction divided into four parts with 19 chapters the book starts by tracing the history of human reproduction biology and the questions and choices involved the first part focuses on the male and female reproductive systems the text notes the different organs involved in reproduction including the penis scrotum vagina oviducts and mammary glands the book discusses sexual development and differentiation particularly noting the variance of sex ducts and glands external genitalia and disorders of sexual development and determination the text also looks at puberty concerns include gonadal changes from birth to puberty mechanisms that influence puberty and puberty and psychosocial adjustment the second part deals with menstrual cycle fertilization pregnancy labor and birth some of the concerns include length of menstrual cycle absence of menstruation transport of sperm and ovum in the oviduct and semen release the text also highlights labor and birthing processes as well as the relationship of neonates and parents the third part looks at the medical aspects of human reproduction infertility and sexually transmitted diseases concerns include contraception abortion herpes genitalis and vaginitis the text folds with discussions on human sexual behavior population growth and family planning concerns include sexual dysfunction the effects of overpopulation and population control the book is a vital source of data for readers interested in human reproduction

Reproductive Biology 2007

reproductive success is a very important objective to ensure the evolution of animal species in this sense interesting research has been carried out to clarify various aspects of reproduction in different animal species in this way recent advances in the knowledge of reproductive biology and biotechnology developed for both males and females have been key to improving efficiency in different aspects thus advances in the knowledge of sperm handling oocyte characteristics different genomic aspects related to somatic cell nuclear transfer and the reproductive microarchitecture system in sheep cows pigs and other invertebrates such as gastropods and fish are presented in this book additionally we also present the most relevant topics of each area making a detailed review of the knowledge reported to date

Human Reproductive Biology 2012-12-02

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

Reproductive Biology and Technology in Animals 2020-04-15

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 Developmental Biology of Reproduction 2012-12-02

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

Human Reproductive Biology 1998-01-01

reproductive biology of invertebrates volume iii accessory sex glands edited by k g adiyodi accessory sex glands is the third volume in the encyclopaedic series and provides very valuable information some hitherto unpublished on the distribution structure origin physiology biochemistry pharmacology and evolution of the accessory sex glands in different groups of invertebrates volumes i and ii of this series published by wiley have given detailed accounts of the structure origin composition and physiology of female and male gametes and also provided some information on the mechanisms controlling their production the secretions of accessory sex glands are indispensable for several key aspects of gamete physiology and for successful fertilization and development in many internally fertilizing invertebrates interestingly enough accessory sex gland secretions are produced in some species at least under the influence of gonadotrophic hormones as are the gametes themselves the data on invertebrate accessory sex glands are scattered in various journals and have not been so far collected critically evaluated and published in book form this volume thus fills a void and serves as an indispensable corollary and companion to the two volumes that have already appeared on gametology in the series contents series preface preface to volume iii systematic resume of the invertebrates platyhelminthes turbellaria s s guraya and v r parshad nemertina m gontcharoff gnathostomulida marlene mainitz rotifera john j gilbert gastrotricha w d hummon and m r hummon nematoda l a fitzgerald and w eugene foor acanthocephala david w t crompton mollusca n w runham annelida k g adiyodi onychophora hilke ruhberg and volker storch arthropoda crustacea k g adiyodi and g anilkumar arthropoda insecta cedric gillott arthropoda myriapoda j m demange pentastomida john riley species index subject index

Mammalian Reproductive Biology 1989

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 Teleost Fishes 2014-12-03

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

Non-Coding RNAs in Reproductive Biology 2021-08-25

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

Reproductive Biology of Invertebrates, Accessory Sex Glands 1993-03-02

cytogenetics is the study of the structure and function of the cell particularly chromosomes manual of cytogenetics in reproductive biology examines the diagnostic role of cytogenetics in improving the outcome of assisted reproductive technologies art divided into six sections the book begins with the basics of genetics followed by investigative cytogenetics applied cytogenetics recent advances preimplantation and prenatal cytogenetics this comprehensive guide includes nearly 200 clinical images diagrams and tables and is an invaluable reference for practising specialists in genetics infertility and obstetrics and gynaecology key points examines diagnostic role of cytogenetics in improving outcome of art six sections each providing in depth coverage of different aspects of cytogenetics includes nearly 200 clinical images diagrams and tables invaluable for specialists in genetics infertility and obsgy

Reproductive Biology of Plants 2016-04-19

this book covers the major aspects of phylogeny and reproductive biology of frogs in chapters written by major authorities topics treated are anuran phylogeny classification and reproductive modes gross anatomy of the reproductive system oogenesis endocrinology of reproduction spermatogenesis and the mature spermatozoon breeding glands internal fertilization and sperm storage parental care general development and molecular development

Reproductive Biology 1972

the comprehensive and authoritative guide to clinical reproductive science the field of clinical reproductive science continues to evolve this important resource offers the basics of reproductive biology as well as the most recent advance in clinical embryology the author a noted expert in the field focuses on the discipline and covers all aspects of this field the text explores causes of male and female infertility and includes information on patient consultation and assessment gamete retrieval and preparation embryo culture embryo transfer and cryopreservation comprehensive in scope the text contains an introduction to the field of clinical reproductive science and a review of assisted reproductive technology the author includes information on a wide range of topics such as gonadal development the regulation of meiotic cell cycle the biology of sperm and spermatogenesis in vitro culture embryo transfer techniques fundamentals of fertilisation oocyte activation and much more this important resource offers an accessible guide to the most current research and techniques to the

science of clinical reproduction covers the fundamental elements of reproductive science includes information on male and the female reproductive basics everything from sexual differentiation to foetal development and parturition explores the long term health of children conceived through ivf contains the newest developments in assisted reproductive technology clinical reproductive science is a valuable reference written for professionals in academia research and clinical professionals working in the field of reproductive science clinical embryology and reproductive medicine

A Guide to Reproduction 1994-06-23

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

Reproductive Biology and Phylogeny of Birds, Part A: 2011-10-14

this book presents a comparative view of chelonian reproduction and discusses ecophysiological implications for their captive breeding chelonians with their protective rigid armour are a phylogenetically antique group of reptiles which radiated to occupy niches from the open waters of the oceans to rivers creeks swamps forests savannahs and deserts a few north american turtle species have been well studied but until recently reproductive data on other chelonian species have been scarce the way in which chelonians adjust their conservative mode of reproduction to the various requirements of their habitats and life styles is the theme of this book the physiology of reproduction and its interplay with ecological conditions are its central subjects

The Reproductive Biology of Amphibians 2013-06-29

this volume has been produced for the xi 11th eucarpia congress eucarpia the european association for plant breeding currently has 1 200 members including scientists and staff of both public and private organizations its aim is to promote scientific and technical research and cooperation in the field of plant breeding and thereby to contribute to the development of agriculture every three years eucarpia organizes a scientific congress in 1992 the xilith eucarpia congress will be held in angers france and the theme is reproductive biology and plant breeding reproduction of plant material is central to selection the geneticist the plant breeder and the seed grower all use

sexual and vegetative reproduction during the various stages of plant breeding and creation of variety the possibility of unlimited interspecific reproduction the use of gametogenesis dysfunction the creation of auto and allogamy and the cloning of the best genotypes are the challenges before the plant breeder to understand how the reproductive system conditions the genetic structure of a population and to investigate the relationships between the reproductive mode and the organization of variability is a central key to genetic progress the articles presented in this book review the current state of knowledge of reproductive biology and its impact on variety creation

Manual of Cytogenetics in Reproductive Biology 2014-02-28

a basic understanding of human genetics is vital for all those working in the field of assisted human reproduction genetic makeup can hamper reproduction and insight into this is making genetic diagnosis and counselling increasingly important this fully updated textbook continues the clear structure of the original edition beginning with a chapter on the basics of genetics and cytogenetics genetic causes of infertility and the effect of epigenetics and transposons on fertility are discussed in detail several new chapters are included in this edition reflecting the advances of the field including preconception genetic analysis and screening in ivf and mitochondrial genetics combining genetics reproductive biology and medicine this is an essential text for practitioners in reproductive medicine and geneticists involved in the field looking to improve their knowledge of the subject and provide outstanding patient care

Reproductive Biology and Phylogeny of Anura 2003-01-08

this book discusses the major accomplishments made in elucidating vitellogenic events at the cellular biochemical and molecular biological levels it is helpful for researchers and students interested in reproduction of invertebrates

Clinical Reproductive Science 2018-09-04

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Reproductive Biology and Taxonomy of Vascular Plants 2013-09-17

south america is one of the few areas of the world that includes vast areas of as yet undisturbed natural habitats these areas are home to as many as half the world's species of plants and animals many of the animals inhabiting these areas are of direct and immediate economic importance while others are of unknown potential value with economic development of these areas there is a coincident disruption of natural habitats that have a direct impact on the reproductive capabilities of the affected species reproduction is central to the survival of all species and regardless of the environmental stresses imposed on them scientific attention must be focused on reproductive biology as a way to deal with these pressures it is vitally important to gather as much research data as possible on the reproductive biology of the species on this continent in order to provide governmental agencies and scientists with the most accurate information on which to base

decisions regarding development this volume is intended to draw attention to these pressing matters by gathering a wide representation of scientists actively engaged in reproduction research relating to south american vertebrates it is intended that this volume will serve as a resource for individuals and organizations interested in reproductive biology and species survival an additional benefit is that economically important species as well as potentially important ones such as sharks will be discussed

The Reproductive Biology of the Chelonia 2012-12-06

this book covers most aspects of human reproductive biology including basic reproductive anatomy and physiology neuroendocrinology environmental issues in reproductive toxicology impact and ethics of fertility control sexual behavior and human sexuality selected important issues are discussed in detail throughout the twelve chapters with information in such areas as gene regulation and molecular biology techniques recent controversies associated with aids homosexuality and ru486 are reviewed with the latest findings with elaborated diagrammatic illustrations human reproductive biology is an excellent textbook for advanced courses these diagrams are powerful teaching tools for instructors in helping students to understand and integrate the presented concepts the book is also designed to be used as a quick reference on this subject

Reproductive Biology and Plant Breeding 2012-12-06

this volume contains original contributions from an international group of authors with the highest reputations in their respective areas of phylogenetic and reproductive studies on salamanders and newts a full panoply of topics is covered from morphology of gametes and reproductive systems to considerations of behavior and life history all placed in a phylogenetic context the chapters not only synthesize past literature but also present new observations and indicate directions for future research this is an essential text for anyone interested in the biology of urodele amphibians

Textbook of Human Reproductive Genetics 2022-12-31

the animals loosely termed fish constitute more than half of all known vertebrate species there are approximately 27 000 described living species of bony fishes euteleostomi osteichthyes about 70 species of hagfishes and some 34 species of lampreys approximately 970 species are chondrichthyans the sharks and their relatives which were the

Reproductive Biology of Invertebrates, Vol. 12, Part B 2005-01-01

mammalian endocrinology and male reproductive biology provides comprehensive and current coverage of the area of endocrinology and male reproductive biology covering not just humans but mammals in general written by international experts in their respective fields this multi author book also covers the latest developments in genomics of androgen action and male infertility the book begins by covering sexual

dimorphism in the central nervous system structure control of secretion and function of gnRH and gonadotropins of pituitary origin and their role in gonadal functions this is followed by an account of hormonal regulation of spermatogenesis and the role of apoptosis in this process subsequent chapters center around epididymis regulation of growth and function and sperm motility regulation the last chapters in the book discuss the structure and function of male accessory sex glands with associated pathologies as well as recent updates in male contraception mechanism of androgen action and genomics of male infertility wherever necessary tables and figures have been added for a better understanding each chapter is appropriately referenced and contains current information on the latest developments in the field

Human Reproductive Biology, [ECH Master]. 2007

the mollusca volume 7 reproduction presents the significant features of reproduction for one of the significant major molluscan groups this book reviews the reproductive biology of land snails which offers the basis for making fascinating comparisons with other terrestrial groups in illustrating how evolutionary various groups solved their common problem of laying eggs organized into six chapters this volume begins with an overview of the reproductive biology of prosobranch gastropods this text then provides a comparative morphology of land snail reproductive anatomy other chapters consider the endocrine control of the female reproductive activity of *Lymnaea stagnalis* this book discusses as well the transition in intraspecific and interspecific sexuality the final chapter deals with cephalopod reproductive biology this book is a valuable resource for readers who are in need of more appropriate animal systems for solving research problems pertaining to general reproduction cytology sex determination biochemistry gamete biology neuroendocrinology and evolutionary biology

Reproductive Science and Integrated Conservation 2003

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

Oxford Reviews of Reproductive Biology 1982

when it comes to reproduction gymnosperms are deeply weird cycads and conifers have drawn out reproduction at least 13 genera take over a year from pollination 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

Reproductive Biology of South American Vertebrates 2012-12-06

designed to give comprehensive knowledge about the frontiers in reproductive biology a compilation of 25 chapters by distinguished scientists in the field of reproductive biology and a toxicology the chapters are grouped in 3 parts part i molecular biology of reproduction part ii contraception and part iii environment and reproduction

Human Reproductive Biology 1994-03-22

Advanced Reproductive Biology in Mammals 2013

Reproductive Biology and Phylogeny of Urodela 2003-01-05

Reproductive Biology and Phylogeny of Fishes, Vol 8B: Part B: Sperm Competition Hormones 2019-07-28

Mammalian Endocrinology and Male Reproductive Biology 2015-09-04

Teaching the Biological and Medical Aspects of Reproduction to Medical Students 1966

Reproduction 2013-10-22

Essential Reproduction 2018-01-12

Conifer Reproductive Biology 2009-05-01

Reproductive Biology 2004

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