

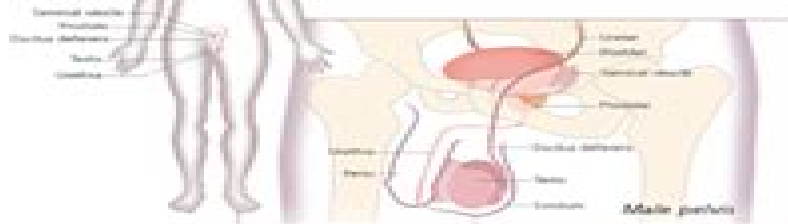


PHYSIOLOGY SERIES

Human Reproduction

Human reproduction

Humans reproduce by sexual reproduction involving male and female reproductive cells called gametes. The reproductive system includes organs called gonads that produce gametes and hormones; ducts for transport, storage and transportation of gametes; accessory organs and glands for fluid secretion; and internal genitalia. Reproduction is regulated by hormones produced by the gonads, the hypothalamus and the pituitary gland. Fertilization involves the introduction of sperm into the vagina. The sperm travels through the female reproductive tract until it encounters an ovulated, female secondary gamete. Fertilization can then take place.



Male reproductive system

The adult male reproductive system is a complex of two primary external structures, the testes and the penis. The testes are divided into thousands of tiny compartments or lobules containing seminiferous tubules, tightly coiled structures where sperm formation takes place.

The testes are situated in a sac called the scrotum, which provides support and regulates the position of the testes relative to the body. The scrotum moves because of the testes' need to change its external temperature to maintain the proper temperature within the testes for sperm formation.

Seminiferous tubules produce sperm cells, which are transported to the epididymis, where they are stored until they are ready for use. The epididymis and vas deferens of the male system are responsible for moving the sperm and the fluid of the vas deferens and penile tissue, providing the development of male secondary sex characteristics.

Acrosomal reaction



Fusion of plasma membranes



Fertilization

The upper portion of the vagina leads to the vaginal canal for fertilization. Millions of sperm travel through the female reproductive tract, utilizing coiled ducts called the fallopian tubes. When a sperm enters the female reproductive tract, it passes through the fallopian tube, the entrance of the uterus, and the cervix. The sperm travels through a path made by the fallopian tube, the entrance of the uterus, and the cervix. The sperm enters the uterus, and the sperm nucleus and associated material enter the egg. Other sperm are prevented from entering by a chemical change in the zona pellucida.

Zona reaction



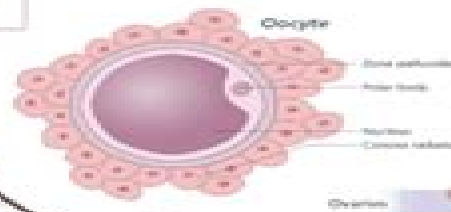
2-cell stage



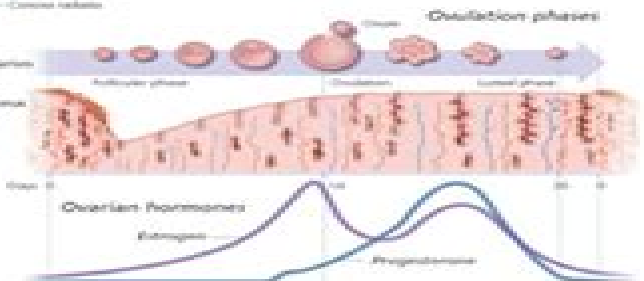
Female reproductive system

The internal structure of the adult female reproductive system includes the vagina, uterus, ovaries and oviducts. These structures form a pathway allowing the release of an egg cell, fertilization in sperm and delivery of a developed fetus. The vagina is a muscular canal that receives the sperm and provides a passage for the sperm to the uterus. It channels through the uterus allows the passage of sperm and menstrual discharge. The uterus is a hollow pear-shaped organ with muscular walls that contract during childbirth. The lower lining of the uterus is the endometrium, which thickens during each menstrual cycle in preparation for implantation by a fertilized egg. This lining is shed during menstruation if fertilization does not occur.

Spermatogenesis



The ovaries, located on each side of the uterus, are responsible for producing ova as well as the female sex hormones estrogen and progesterone. Estrogens are responsible for the development of the female reproductive structures, sexual characteristics, and breast development. Progesterone prepares the uterus lining for implantation of a fertilized egg and is necessary for breast milk production. The ovaries are connected to the uterus by the ovarian tubes, narrow ducts that provide a passageway for the egg to reach the uterus.



Ovulation & the menstrual cycle

The menstrual cycle refers to the sequence of events that occurs in the endometrium, the lining of the uterus. The cycle normally lasts approximately 28 days. The purpose is to prepare the uterus for possible pregnancy. The menstrual cycle is governed by the endocrine system. If fertilization does not occur, decreasing estrogen and progesterone levels initiate menstruation and the cycle begins again.



Sex chromosomes



Sex determination

Each parent contributes one sex chromosome. The mother always contributes an X sex chromosome, while the father contributes either an X or a Y sex chromosome. An XX combination produces a girl, while a XY combination produces a boy.



Reproductive Physiology

**Robert S. Youngquist, Walter R.
Threlfall**



Reproductive Physiology:

Comprehensive Textbook of Medical Physiology - Two Volume Set GK Pal, Parvati Pal, Nivedita Nanda, 2016-10-31

Two volume set a complete guide to medical physiology for undergraduate medical students Covers both clinical and applied physiology of all anatomical systems Includes numerous photographs and invaluable learning tools [Textbook of Medical Physiology_3rd Edition-E-book](#) Indu Khurana, Arushi Khurana, Narayan Gurukripa Kowlgi, 2019-11-11 The third edition of this book incorporates thoroughly revised and updated text organized into twelve sections and arranged in three parts Part I General Physiology includes one section having five chapters Part II Systemic Physiology has been arranged into ten sections one on each body system Part III Specialized integrated physiology includes one section comprising of seven chapters Complete and up to date text incorporating recent advances Illustrated by more than 1100 clear line diagrams Complemented with numerous tables and flowcharts for quick comprehension Applied aspects highlighted in the boxes have been expanded and updated with recent molecular concepts on pathophysiology advances in investigations and therapeutic principles Additional important information has been highlighted as important notes The above features of this book make it an indispensable text for postgraduates in Physiology Candidate preparing for PG entrance examination would also find it as an authentic reference source Complimentary access to full e book

Fish Ecophysiology Akshay Kothari, 2025-02-20 Fish Ecophysiology Unveiling Aquatic Life delves into the fascinating world of fish and their interactions with aquatic environments Authored by esteemed experts this comprehensive book serves as a valuable resource for anyone curious about the physiological adaptations of fish Whether you're a seasoned biologist or a curious enthusiast this book offers insights into how fish thrive in diverse ecosystems from freshwater lakes to the ocean's depths We explore how fish navigate and adapt to various environmental factors From temperature fluctuations to water chemistry changes fish have evolved remarkable mechanisms to maintain homeostasis and survive Readers will gain a deeper understanding of how factors such as dissolved oxygen levels salinity and pH impact fish physiology and behavior shedding light on the delicate balance of aquatic ecosystems The book also delves into the intricacies of fish metabolism and energetics unraveling the processes that govern growth reproduction and survival By examining the physiological mechanisms behind feeding behavior digestion and nutrient utilization readers will uncover the strategies fish employ to extract energy from their diets and allocate resources efficiently This insight is invaluable for fisheries management and conservation efforts

Handbook of Laboratory Animal Science Jann Hau, Per Svendsen, Steven J. Schapiro, 1994-06-02 This two volume set presents a comprehensive description of laboratory animal genetics diseases health monitoring nutrition and the environmental impact on animal testing It considers the ethics of animal experimentation through a complete review of European and North American legislation on the topic It discusses alternatives to animal experiments including the use of isolated organs cell cultures and computer simulations The book also examines general methods including experimental design and statistical evaluation non surgical and surgical

techniques anesthesia and post mortem examinations Reviews of animal models for studying diseases of different organ systems infectious diseases cancer and toxicology are featured as well **Mammalian Reproduction** Heinz Ghibian, E.J. Plotz, 2012-12-06 It is two years since a general meeting of the Gesellschaft für Biologische Chemie first requested us to organize the 21 st Mosbach Colloquium on mammalian reproduction and one year since we received final authorization to do so The present volume contains the papers read at the Colloquium but the discussions have been omitted because writing and proof reading them would have delayed the appearance of this volume for an unjustifiable long time Besides in most cases the discussion was of a relatively specific nature and we did not consider it essential bearing in mind that the purpose of the Mosbach Colloquia is to provide advanced further education for the non specialist One of us has referred to this and to the topical structure of the 21 st Colloquium in the introductory and final remarks Helpful suggestions for organizing the program were made by some of the invited speakers but the first important impulses VON BERSWORDT WALLRABE Dr ELGER Dr came from Dr GERHARDS Dr NEUMANN and Dr UFER to whom we here wish express our thanks Thanks are also due to those whose donations some of which were very generous made it financially possible to organize the Colloquium HEINZ GIBIAN July 1970 ERNST JURGEN PLOTZ Contents Introduction H GIBIAN Berlin 1 General Outline about Reproductive Physiology and its Developmental Background A JOST Paris 4 The Significance of Hormones in Mammalian Sex Differentiation as Evidenced by Experiments with Synthetic Androgens and Antiandrogens W ELGER F NEUMANN H

Female Choices Meredith F. Small, 1993 The battle of the sexes can be explained at its deepest level writes Meredith Small as a war of different mating strategies In her intriguing and provocative book about females and sex Small concentrates on primates the prosimians monkeys and apes whose ancestry we share to show how females have evolved to be highly sexual creatures Using nonhuman female primates as a gauge she describes the sexual and reproductive strategies of our nearest cousins to demonstrate that just as males are strategists in the reproductive game females also search for good partners enjoy sex and keep their own reproductive interests in mind Female Choices opens with the evolution of sexual reproduction and of males and females as distinct forms Small then introduces primates and gives a detailed history of the average female's life cycle After devoting chapters to sexuality reproduction and sexual selection theory the theory behind female mate choice she discusses what female primates actually do Drawing on her own firsthand observation of nonhuman primates she shows that some are highly promiscuous others prefer several unfamiliar males and some apparently make no choices at all The behavior of the indiscriminating females often affects the evolution of relationships between the sexes and can influence the social structure of a species In a final chapter on human behavior Small maintains that the human pair bond is a tenuous compromise made by the two sexes to bring up highly dependent infants But she writes because both sexes also have a natural tendency to seek out other partners that bond is always at risk Small insists that female choice is not necessarily sexual selection but is nonetheless important to female fitness Sure to provoke controversy her book will add a

new twist to an exciting field of research while offering significant clues as to the origins of our own sexuality CRC Handbook of Marine Mammal Medicine Leslie Dierauf, Frances M.D. Gulland, 2001-06-27 CRC Handbook of Marine Mammal Medicine Second Edition is the only handbook specifically devoted to marine mammal medicine and health With 66 contributors working together to craft 45 scientifically based chapters the text has been completely revised and updated to contain all the latest developments in this field Building upon the solid foundation of the previous edition the contents of this book are light years ahead of the topics presented in the first edition See what's new in the Second Edition Marine mammals as sentinels of ocean health Emerging and resurging diseases Thorough revision of the Immunology chapter Diagnostic imaging chapters to illustrate new techniques Quick reference for venipuncture sites in many marine mammals Unusual mortality events and mass strandings New topics such as a chapter on careers Wider scope of coverage including species outside of the United States and Canada Filled with captivating illustrations and photographs the Handbook guides you through the natural history of cetaceans pinnipeds manatees sea otters and polar bears Prepared in a convenient easy to use format it is designed specifically for use in the field Covering more than 40 topics this one of a kind reference is packed with data The comprehensive compilation of information includes medicine surgery pathology physiology husbandry feeding and housing with special attention to strandings and rehabilitation The CRC Handbook of Marine Mammal Medicine Second Edition is still a must for anyone interested in marine mammals **Handbook of Human Toxicology** Edward J.

Massaro, 1997-07-09 Covering some of the most important topics in modern toxicology the Handbook of Human Toxicology is a unique and valuable addition to the current literature It addresses issues answers questions and provides data related to Within each of these five major sections are several carefully selected topics that reflect the current state of human to

Index of NLM Serial Titles National Library of Medicine (U.S.), 1981 A keyword listing of serial titles currently received by the National Library of Medicine Reproduction in Mammals Virginia Hayssen, Teri J. Orr, 2017-10-27 A fascinating look at the diverse reproductive strategies of numerous female mammals from hyenas to goats kangaroos to whales 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 twenty or more young after only a few weeks in utero What causes this incredible reproductive diversity In Reproduction in Mammals Virginia Hayssen and Teri J Orr present readers with a fascinating examination of the varied reproductive strategies of a broad spectrum of mammals from marsupials to whales 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 a number of intriguing questions including do bigger moms have bigger babies do primates have longer pregnancies than other groups does habitat influence animals reproductive patterns do carnivores typically 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 typical individual mammalian female her genetics anatomy and physiology Taking a nuanced approach Hayssen and Orr describe the female reproductive cycle and explore female mammals interactions with males and offspring Readers will come away from this thought provoking book with an understanding of not only how reproduction fits into the lives of female mammals but also how biology has affected the enormously diverse reproductive patterns of the phenotypes we observe today

The Evolution of Insect Mating Systems David Shuker, Leigh Simmons, 2014-07-31 Insects display a staggering diversity of mating and social behaviours Studying these systems provides insights into a wide range of evolutionary and behavioural questions such as the evolution of sex sexual selection sexual conflict and parental care This edited volume provides an authoritative update of the landmark book in the field The Evolution of Insect Mating Systems Thornhill and Alcock 1983 which had such a huge impact in shaping adaptationist approaches to the study of animal behaviour and influencing the study of the evolution of reproductive behaviour far beyond the taxonomic remit of insects This accessible new volume brings the empirical and conceptual scope of the original book fully up to date incorporating the wealth of new knowledge and research of the last 30 years It explores the evolution of complex forms of sex determination in insects and the role of sexual selection in shaping the evolution of mating systems Selection arising via male contest competition and female choice both before and after copulation are discussed as are the roles of parasites and pathogens in mediating the strength of sexual selection and the role that parental care plays in successful reproduction The Evolution of Insect Mating Systems is suitable for both graduate students and researchers interested in insect mating systems or behaviour from an evolutionary genetical physiological or ecological perspective Due to its interdisciplinary and concept driven approach it will also be of relevance and use to a broad audience of evolutionary biologists

Biomedical Index to PHS-supported Research ,1987

Developmental Biology of Teleost Fishes Gaurav Shekhar, 2025-02-20 Developmental Biology of Teleost Fishes offers a comprehensive exploration of the intricate biological processes in teleost fish development Authored by leading experts this book delves into the fascinating world of teleost fishes highlighting their diverse evolutionary history reproductive strategies and physiological adaptations We provide deep insights into the genetic regulation environmental influences and developmental plasticity that shape the life history of teleost fishes Through detailed discussions and engaging illustrations the book explores the role of teleost fishes as model organisms in biomedical research offering valuable parallels to human health and disease Additionally we examine practical applications in aquaculture fisheries management and environmental conservation With its thorough coverage and interdisciplinary approach Developmental Biology of Teleost Fishes is an essential resource for researchers educators and students interested in the biology ecology and evolution of teleost fishes This book offers a wealth of knowledge and inspiration for understanding the remarkable diversity of teleost fishes

Current Therapy in Large Animal Theriogenology Robert S. Youngquist, Walter R. Threlfall, 2006-10-10 An essential resource for both students and

practitioners this comprehensive text provides practical up to date information about normal reproduction and reproductive disorders in horses cattle small ruminants swine llamas and other livestock Featuring contributions from experts in the field each section is devoted to a different large animal species and begins with a review of the clinically relevant aspects of the reproductive anatomy and physiology of both males and females Key topics include the evaluation of breeding soundness pregnancy diagnosis diagnosis and treatment of infertility abortion obstetrics surgery of the reproductive tract care of neonates and the latest reproductive technology Includes coverage of all large animal species All sections provide a review of clinically pertinent reproductive physiology and anatomy of males and females of each species Complete coverage of the most current reproductive technology including embryo transfer estrous synchronization and artificial insemination A new section on alternative farming that addresses reproduction in bison elk and deer New to the equine section stallion management infertility and breeding soundness evaluation New to the bovine section estrous cycle synchronization reproductive biotechnology ultrasonographic determination of fetal gender heifer development and diagnosis of abortion New to the porcine section artificial insemination boar stud management diseases of postpartum period and infectious disease control New to the llama section infectious disease and nutrition **Biomedical Index to PHS-supported**

Research: pt. A. Subject access A-H ,1994 Population Sciences ,1977 Women's Health in Primary Care - E-Book

Lisa Ferguson,Susan M. Kendig,Sarah B. Freeman,Kelly Ellington,2023-04-29 American Journal of Nursing AJN Book of the Year Awards 1st Place in Adult Primary Care 2023 Featuring a holistic woman centered focus and uniquely organized for consistency with the AWHONN NPWH Guidelines for Practice and Education this completely new textbook for primary care Nurse Practitioners Physician Assistants and other primary care practitioners responsible for women s health provides a strong evidence based clinical foundation for primary care of women Coverage includes foundational concepts in women s health well woman care throughout the lifespan and primary care management of common conditions affecting women UNIQUE Holistic woman centered approach to women s health for primary care addresses the full breadth of foundational women s health content for primary care including foundational concepts well woman care throughout the lifespan and primary care management of common conditions affecting women UNIQUE Evidence based content organized by the latest AWHONN NPWH and national well woman guidelines features a rigorous basis in the latest research and national and international clinical guidelines for women s health Strong emphasis on patient diversity interprofessional collaboration and clinical integration examines LGBTQ issues global health underserved populations and coordination of care across a continuum of services including preventive outpatient inpatient acute hospital care and post acute care including skilled nursing rehabilitation home health services and palliative care Key Points at the end of each chapter summarize take home points Not to Be Missed boxes call attention to red flags that should not be missed e g signs of human trafficking breast lumps low back pain in pregnancy and the need for HIV counseling testing Patient Centered Care boxes demonstrate how to

tailor care to patients in special populations or situations such as LGBTQ clients those with disabilities older women military veterans people of various racial and ethnic groups religious cultural variations etc Safety Alert boxes call attention to special precautions to protect patients and ensure their safety Clinical Survival Tip boxes cover topics that you need to know when immersed into a clinical setting Full color design and illustrations facilitate learning

Conservation of Endangered Species in Captivity Edward F. Gibbons, Barbara Susan Durrant, Jack Demarest, 1995-01-01 This multi disciplinary approach to conservation of endangered species in captivity is organized taxonomically and by scientific discipline The seven taxonomic groups included are invertebrates fish reptiles and amphibians birds marine mammals primates and other mammals Within each taxonomic group four scientific disciplines are explored conservation reproductive physiology behavior and captive design Conservation chapters summarize the status of the taxonomic group both in the wild and in captivity Reviewed in the reproductive physiology chapters are anatomy endocrinology and physiology for females and males of the taxonomic group In the section on behavior the functions of captive animal research the methods used and the problems encountered are discussed And in examining captive design the authors provide a general historical outline of the philosophies trends and scientific issues for the targeted taxonomic group

Reproductive Physiology of Vertebrates Ari Van Tienhoven, 1968

Encyclopedia of Reproduction, 2018-06-29 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

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