

AGING AND REPRODUCTION

- Females: menopause (ovulation and menstruation cease) occurs at ages 45-55
- Males: male climacteric or andropause: occurs between ages 50 and 60 when levels of testosterone decrease and levels of FSH and LH increase.



Reproduction Aging

Ernst Knobil, Jimmy D. Neill



Reproduction Aging:

Germ Cell Development and Reproductive Aging Miguel Angel Brieño-Enriquez, Francesca Elizabeth Duncan, Arjumand Ghazi, Michael Klutstein, Vittorio Sebastiano, Jessica Tyler, 2022-07-14 **The Evolutionary Roots of Reproductive Ageing and Reproductive Health Across the Tree of Life** Jean-Francois Lemaitre, Jean-Michel Gaillard, 2024-01-02 The Reproductive Neuroendocrinology of Aging and Drug Abuse Charles D. Barnes, Dipak K. Sarkar, 1994-11-22

The communication between the hypothalamus pituitary and gonad is bi directional and alterations of the communication in the circuitry as often occurs during aging and drug abuse results in acyclicity hypogonadism and impotence This important reference covers topics on the neuroendocrine control mechanisms governing the reproductive process in both males and females It discusses the importance of the differentiation of the neuroendocrine brain during the developmental period for the normal reproductive process It also summarizes the effects of prenatal drug abuse on the differentiation of the neuroendocrine brain development and how this alteration induces abnormalities in the reproduction process This comprehensive volume compares the effects of various psychoactive drugs on the maintenance of reproduction and describes the changes in the reproductive neuroendocrine axis during aging **Primate Reproductive Aging** S. Atsalis, S. W. Margulis, P. R. Hof, Tamàs Fülöp, 2008-06-16 Due to the unusually long post reproductive lifespan characteristic of human females primate reproductive aging receives a great deal of attention Promoting and supporting discussion on comparative analyses of aging among diverse primate species including humans this publication highlights current research on female primate reproductive aging from both institutional based as well as field studies The contributions highlight the complex interaction between somatic and reproductive senescence The latter is broadly manifested along a cross taxonomic evolutionary continuum with humans at one end of the spectrum exhibiting the lengthiest post reproductive lifespan Primatologists anthropologists evolutionary biologists animal behaviorists endocrinologists neuroscientists and all scholars interested in aging and reproduction will find this book a valuable source of information Considering the increasing number of geriatric primates held in captivity it will also be helpful to animal care professionals as it calls attention to the special care that primates may require in order to monitor maintain and improve their health as they age **Knobil and Neill's Physiology of Reproduction** Tony M. Plant, Anthony J. Zeleznik, 2014-11-15 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

When Reproduction meets Ageing Nolwenn Bühler, 2021-05-27 When Reproduction meets Ageing questions the nature of reproductive ageing and reproductive biomedicine

Hormones and Reproduction of Vertebrates, Volume 5 David O. Norris, Kristin H. Lopez, 2024-08-08 Hormones and Reproduction of Vertebrates Volume 5 Mammals is the fifth of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of reptilian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on mammals Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters introduce the evolution of viviparity and examine pregnancy in eutherian mammals parturition pheromones and behavioral neuroendocrinology Covered taxa include rodents bats and primates The book concludes with an examination of the environmental influences on hormones and reproduction of mammals including endocrine disrupting chemicals and climate change

Hormones and Reproduction of Vertebrates Volume 5 Mammals is designed to provide a readable coordinated description of reproductive basics in mammals as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of mammalogy or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior and anatomy of mammalian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on rodents bats primates ungulates carnivores and marine mammals Provides new coverage on endocrine disrupting chemicals and climate change

Knobil and Neill's Physiology of Reproduction Ernst Knobil, Jimmy D. Neill, 2006 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 Bibliogrphics of chapters are extensive and cover all the relevant literature Physiological Basis of Aging and Geriatrics Paola S. Timiras,2007-08-16 Extensively revised and updated to reflect the current state of knowledge in the study of aging this Fourth Edition offers a complete profile of the aging process at all levels from molecules and cells to demography and evolution Written by international experts in current basic and clinical aging research this text includes aspects of individual comparative and differential aging and discussions of theories and mechanisms of aging This invaluable reference illustrates how bodily systems organs and functions are affected with aging describes how genetic and environmental factors influence age related changes and addresses some of the clinical consequences of these changes for health and longevity Well illustrated with numerous tables and graphs this book presents up to date information from internationally renowned experts in various bio medical fields **How Men Age** Richard G. Bribiescas,2018-05-08 A groundbreaking book that examines all aspects of male aging through an evolutionary lens While the health of aging men has been a focus of biomedical research for years evolutionary biology has not been part of the conversation until now How Men Age is the first book to explore how natural selection has shaped male aging how evolutionary theory can inform our understanding of male health and well being and how older men may have contributed to the evolution of some of the very traits that make us human In this informative and entertaining book renowned biological anthropologist Richard Bribiescas looks at all aspects of male aging through an evolutionary lens He describes how the challenges males faced in their evolutionary past influenced how they age today and shows how this unique evolutionary history helps explain common aspects of male aging such as prostate disease loss of muscle mass changes in testosterone levels increases in fat erectile dysfunction baldness and shorter life spans than women Bribiescas reveals how many of the physical and behavioral changes that we negatively associate with male aging may have actually facilitated the emergence of positive traits that have helped make humans so successful as a species including parenting long life spans and high fertility Popular science at its most compelling How Men Age provides new perspectives on the aging process in men and how we became human and also explores future challenges for human evolution and the important role older men might play in them *Papers of the Conference on Genetics of Aging and Longevity 2012* Alexey Moskalev,Elena G. Pasyukova,2014-11-12 **Human Biological Aging** Glenda E. Bilder,2016-01-29 Comprehension of the theories of aging requires rudimentary knowledge of oxidation and reduction reactions protein function cell organelles mitosis acquired immunity and evolution among other basic biological concepts Without these fundamentals students of biological aging struggle to learn the essentials of biological aging and how to appreciate the research advances in the field Human Biological Aging From Macromolecules To Organ Systems is an introduction to human aging from the level of macromolecules to organ systems Age changes in proteins DNA polysaccharides and lipids are discussed relative to known

age related alterations in structure and function produced by free radicals and oxidants At the cellular level age dependent mechanisms that diminish organelle function are described Cellular phenomena of replicative senescence apoptosis autophagy and neuroplasticity are detailed as to their contribution to compromised cellular functions Authored by a leader in the field Human Biological Aging From Macromolecules To Organ Systems is an invaluable introduction for those studying human aging

Reproductive and Developmental Strategies Kazuya Kobayashi, Takeshi Kitano, Yasuhiro Iwao, Mariko Kondo, 2018-06-01 This book provides new insights into the universality of biological systems in animal reproduction and development by a comparative study of a variety of mechanisms in animals ranging from basal invertebrates to vertebrates including mammals Animals accomplish genetic diversity through meiosis and fertilization and during embryogenesis animals must produce specialized cell types including germ cells in accordance with their individual body plan This series of phenomena is essential to the continuity of life in the animal kingdom and animals show various reproductive and developmental strategies This volume comprising four parts reviews animal kingdom diversity including reproductive strategies and germ cell differentiation mechanisms Part 1 sex determination and differentiation Part 2 the mechanisms of fertilization Part 3 and body axis formation Part 4 Readers will find descriptions of the reproduction or development of 180 species 13 phyla 35 classes 74 orders 117 families and 151 genera in this book Of particular interest is the diversity of molecules and mechanisms used to achieve the same biological purpose in different animals Undergraduates graduate students and professional scientists who want a deeper understanding of animal reproductive and developmental mechanisms will find this book to be of great value

Male Reproductive Dysfunction SC. Basu, 2011-12-15 Complete updating of all fourteen chapters incorporating most recent information on the subject History of reproductive sciences has been considerably enlarged with comprehensive review of the subject Relevant anatomy of the male reproductive system has been illustrated with added diagrams Endocrine chapter has been updated to help the postgraduate students of Urology Andrology Moreover this would be a guide to the practicing endocrinologist specializing in reproductive problems Recent advances in the management of erectile problems in males incorporated with illustrations Basic informa

Reproductive Ecology and Human Evolution Peter T. Ellison, 2017-09-04 The study of human reproductive ecology represents an important new development in human evolutionary biology Its focus is on the physiology of human reproduction and evidence of adaptation and hence the action of natural selection in that domain But at the same time the study of human reproductive ecology provides an important perspective on the historical process of human evolution a lens through which we may view the forces that have shaped us as a species In the end all actions of natural selection can be reduced to variation in the reproductive success of individuals Peter Ellison is one of the pioneers in the fast growing area of reproductive ecology He has collected for this volume the research of thirty one of the most active and influential scientists in the field Thanks to recent noninvasive techniques these contributors can present direct empirical data on the effect of a broad array of

ecological behavioral and constitutional variables on the reproductive processes of humans as well as wild primates Because biological evolution is cumulative however organisms in the present must be viewed as products of the selective forces of past environments The study of adaptation thus often involves inferences about formative ecological relationships that may no longer exist or not in the same form Making such inferences depends on carefully weighing a broad range of evidence drawn from studies of contemporary ecological variation comparative studies of related taxonomies and paleontological and genetic evidence of evolutionary history The result of this inquiry sheds light not only on the functional aspects of an organism s contemporary biology but also on its evolutionary history and the selective forces that have shaped it through time Encompassing a range of viewpoints controversy along with consensus this far ranging collection offers an indispensable guide for courses in biological anthropology human biology and primatology along with

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

Experimental Evolution Theodore Garland,Michael R. Rose,2009-12-03 This volume summarizes studies in experimental evolution outlining current techniques and applications and presenting the field s range of research

Mechanisms and Pathways Contributing to the Diversity of Aging across the Tree of Life Joris Deelen,Alan A. Cohen,Owen Jones,2022-03-11

How Not to Age Michael Greger, M.D., FACLM,2023-12-05 Instant New York Times Bestseller Uncover the evidence based science to slowing the effects of aging from the New York Times bestselling author of the How Not to Die series When Dr Michael Greger founder of NutritionFacts.org dove into the top peer reviewed anti aging medical research he realized that diet could regulate every one of the most promising strategies for combating the effects of aging We don t need Big Pharma to keep us feeling young we already have the tools In How Not to Age the internationally renowned physician and nutritionist breaks down the science of aging and chronic illness and explains how to help avoid the diseases most commonly encountered in our journeys through life Physicians have long treated aging as a malady but getting older does not have to mean getting sicker There are eleven pathways for aging in our bodies cells and we can disrupt each

of them Processes like autophagy the upcycling of unusable junk can be boosted with spermidine a compound found in tempeh mushrooms and wheat germ Senescent zombie cells that spew inflammation and are linked to many age related diseases may be cleared in part with quercetin rich foods like onions apples and kale And we can combat effects of aging without breaking the bank Why spend a small fortune on vitamin C and nicotinamide facial serums when you can make your own for up to 2 000 times cheaper Inspired by the dietary and lifestyle patterns of centenarians and residents of blue zone regions where people live the longest Dr Greger presents simple accessible and evidence based methods to preserve the body functions that keep you feeling youthful both physically and mentally Brimming with expertise and actionable takeaways How Not to Age lays out practical strategies for achieving ultimate longevity

Animal Models and Human Reproduction Heide Schatten, Gheorghe M. Constantinescu, 2017-01-12 Our knowledge of reproductive biology has increased enormously in recent years on cellular molecular and genetic levels leading to significant breakthroughs that have directly benefitted in vitro fertilization IVF and other assisted reproductive technologies ART in humans and animal systems Animal Models and Human Reproduction presents a comprehensive reference that reflects the latest scientific research being done in human reproductive biology utilizing domestic animal models Chapters on canine equine cow pig frog and mouse models of reproduction reflect frontier research in placental biology ovarian function and fertility non coding RNAs in gametogenesis oocyte and embryo metabolism fertilization cryopreservation signal transduction pathways chromatin dynamics epigenetics reproductive aging and inflammation Chapters on non human primate models also highlight recent advancements into such issues as human in vitro fertilization IVF and assisted reproductive technologies ART This book offers animal scientists reproductive biology scientists clinicians and practitioners invaluable insights into a wide range of issues at the forefront of human reproductive health

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