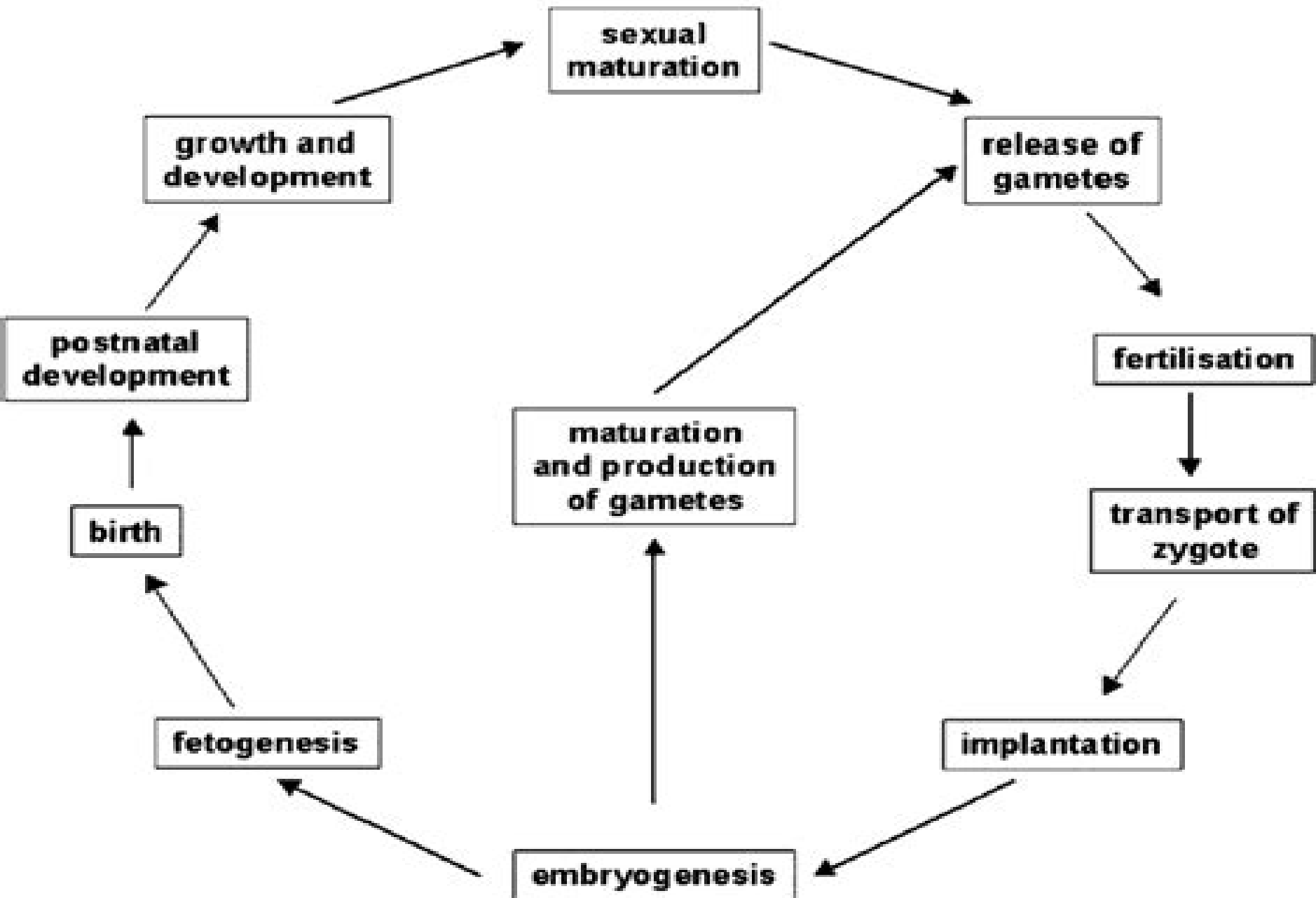


The Mammalian Reproductive Cycle



Patterns Of Mammalian Reproduction

I. Gordon



Patterns Of Mammalian Reproduction:

Patterns of Mammalian Reproduction Sydney Arthur Asdell, 1964 Patterns of Mammalian Reproduction Sydney Arthur Asdell, 1964 Asdell's Patterns of Mammalian Reproduction Virginia Douglass Hayssen, Ari Van Tienhoven, Ans Van Tienhoven, 1993 Since the appearance of the second edition of Sydney A Asdell's widely used *Patterns of Mammalian Reproduction* in 1964 the field of reproductive physiology has expanded dramatically Accordingly this revision adopts a different structure from previous editions substituting empirical delineations for physiological interpretations With the emphases now on a presentation of the published facts of mammalian reproduction it provides a thorough compilation of what is known about the basic reproductive biology of each of the 4300 mammalian species To gather information the authors examined more than 20 000 publications dating up to 1992 They used primary sources as much as possible supplementing them with English translations of Russian Finnish Chinese and Japanese journals The data are presented in taxonomic order Each familial account summarizes the pattern of reproduction for the family and provides lists of citations arranged by topic of the literature on the endocrinology reproductive anatomy and reproductive physiology of the family Following each account is a tabular listing of species specific data for neonatal mass and size weaning mass and size litter size age at sexual maturity estrous cycle length gestation length lactation length number of litters per year and seasonality of reproduction For each of these reproductive variables the range of data gleaned from the literature is given together with the source of each value listed Virginia Hayssen is Assistant Professor of Biology at Smith College Ari Van Tienhoven is Professor of Animal Physiology Emeritus at Cornell University Ans Van Tienhoven assisted in the compilation of data for the book

Patterns of Mammalian Reproduction Richard Phillips Feynman, 1964 Patterns of Mammalian Reproduction. Second Edition Sydney Arthur ASDELL, 1965 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 *Patterns of Human Growth* Barry Bogin,1999-05-06 A revised edition of an established text on human growth and development from an anthropological and evolutionary perspective

Pattern of Mammalian Reproduction ,1946 **Reproductive Biology of Bats** Elizabeth G. Crichton,Philip H. Krutzsch,2000-06-12 The Reproductive Biology of Bats presents the first comprehensive in depth review of the current knowledge and supporting literature concerning the behavior anatomy physiology and reproductive strategies of bats These mammals which occur world wide and comprise a vast assemblage of species have evolved unique and successful reproductive strategies through varied anatomical and physiological specialization These are accompanied by individual and or group behavioral interactions usually in response to environmental mechanisms essential to their reproductive success Is the first book devoted to the reproductive biology of bats Contains in depth reviews of the literature concerned with bat reproduction Contributors are widely recognized specialists Provides a powerful database for future research **Sex Determination, Differentiation and Intersexuality in Placental Mammals** R. H. F. Hunter,1995-03-09 How do males become male and females become female And what are the consequences if the decision is not incisive Drawing upon interests in animal genetics and molecular biology the author endeavours to answer these difficult yet fascinating questions Originally published in 1995 this book describes the genetic determination of sex and examines how sexual organs are differentiated Using examples of intersexuality chimaeras and asymmetries the book describes the underlying molecular basis of sex determination and sexual differentiation and focuses on the critical role of the rate of embryonic development in these vital processes Male precocity is a recurrent theme as is the involvement of Sertoli cells and their secretion of anti Mullerian hormone An invaluable book for reproductive physiologists geneticists and developmental biologists whose interests may extend from animal science through veterinary medicine to human clinical medicine **Physiological Mammalogy V2** William Mayer,2012-12-02 Physiological Mammalogy Volume II Mammalian Reactions to Stressful Environments deals with natural mammalian populations and their adaptations to stressful environments The book explores the physiology and morphology of reproduction and development water metabolism and hibernation This volume is organized into three chapters and begins with a discussion of aspects of reproduction and embryology that are purely mammalian emphasizing the mammalian reproductive organs and the evolutionary trends in such organs The next chapter focuses on water balance in desert rodents Inasmuch as reproduction is considerably affected by the environment it also can be considered a process modified by environmental stresses The final chapter examines hibernation as a mechanism for mammals to avoid periods of unfavorable environment This chapter also describes the poikilothermic state of mammalian populations during hibernation

along with the consequences of reduced metabolic rate during hibernation Experimental animal biologists and those who work with mammals will find this book invaluable

Patterns of Vertebrate Biology E.W. Jr. Jameson, 2012-12-06 This book grew from a series of lectures on vertebrate natural history The topics have been developed over a period of nearly 30 years and today scarcely resemble the original subject matter The progress is primarily technical Some concepts provide a synthetic framework for viewing much modern research but many of these concepts either date from Darwin or have developed from observations of later students Animal science courses follow a sequential pattern in which there are three discrete levels of undergraduate instruction Initially students study subject matter contained in such courses as biology and general zoology These courses introduce students to animal phylogeny basic plans of morphology and certain physiological aspects incidental to these subjects the student acquires a broad zoological vocabulary At the other end of the academic spectrum are courses that emphasize synthesis and theory evolution zoogeography behavior and ecology are important courses whose role is to explore the relationships of various aspects of the physical and biological world In these courses theory and analysis prevail They are not however essentially subject matter courses with distinct bodies of knowledge

Using The Biological Literature Diane Schmidt, Elisabeth B. Davis, 2001-12-06 Provides an in depth review of current print and electronic tools for research in numerous disciplines of biology including dictionaries and encyclopedias method guides handbooks on line directories and periodicals Directs readers to an associated Web page that maintains the URLs and annotations of all major Internet resources discussed in the

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1975

The Behavior Guide to African Mammals Richard D. Estes, 2012-03-28 Drawing on his own extensive fieldwork and on the research of many other scientists the author describes and explains the behavior of four major groups of mammals Hoofed Mammals Antelopes and Other Ruminants Hoofed Mammals Nonruminants Carnivores and Primates

Mammals of Colorado, Second Edition David M. Armstrong, James P. Fitzgerald, Carron A. Meaney, 2011-05-18 Co published with the Denver Museum of Nature Science Thoroughly revised and updated Mammals of Colorado Second Edition is a comprehensive reference on the nine orders and 128 species of Colorado's recent native fauna detailing each species description habitat distribution population ecology diet and foraging predators and parasites behavior reproduction and development and population status An introductory chapter on Colorado's environments a discussion of the development of the fauna over geologic time and a brief history of human knowledge of Coloradan mammals provide ecological and evolutionary context The most recent records of the state's diverse species rich illustrations including detailed maps skull drawings and photographs and an extensive bibliography make this book a must have reference Amateur and professional naturalists students vertebrate biologists and ecologists as well as those involved in conservation and wildlife management in Colorado will find value in this comprehensive volume

Reproductive Biology, Physiology and Biochemistry of Male Bats Edith Arenas-Ríos, 2017-10-05 This monograph explains the physiological biochemical and

behavioral processes of male bat reproduction Chapters cover spermatogenesis sperm ultrastructure reproductive homeostasis apoptotic processes sperm maturation sperm storage in female bats and sexual selection processes The volume also presents studies focused on the reproductive physiology of Mexican cave bat species This monograph is a suitable reference for undergraduate and postgraduate students as well as researchers interested in chiropteran reproductive biology

Squirrels of the World Richard W. Thorington Jr., John L. Koprowski, Michael A. Steele, James F. Whatton, 2012-09-01

This is the most thorough treatment ever undertaken on the Sciuridae and promises to be the definitive book on squirrels for decades to come Squirrels of the World written by scientists with more than 100 years of collective experience studying these popular mammals is the first comprehensive examination of all 285 species of squirrels worldwide The authors reveal virtually every detail of the family Sciuridae which includes ground squirrels tree squirrels flying squirrels prairie dogs and chipmunks Each species from the familiar gray squirrel of American backyards to the exotic and endangered woolly flying squirrel of Pakistan is described in a detailed account that includes distinguishing characteristics ecology natural history conservation status and current threats to its existence Squirrels of the World includes stunning color photographs that document rare and unusual squirrels as well as common varieties evolution morphology ecology and conservation status colorful range maps marking species distribution images of the skull of each genus of squirrel extensive references

Controlled Breeding in Farm Animals I. Gordon, 2013-10-22 This textbook provides a detailed view of the different ways in which reproduction in cattle sheep pigs and horses can be controlled and manipulated It is primarily of interest to students of animal science and veterinary medicine but will also be of use to those who are concerned with the practical aspects of reproduction control whether in an advisory capacity or in applying techniques on the farm itself A major objective of the book is to draw attention to information which may be used directly to increase the efficiency of the livestock industry

Evolution and Speciation William R. Atchley, David S. Woodruff, 1981-05-29 This 1981 collection focuses on a wide range of topics in the general field of evolutionary biology The authors have all been associated with Professor M J D White who was the world authority on chromosomal evolution and speciation to whom this volume was presented on his seventieth birthday

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