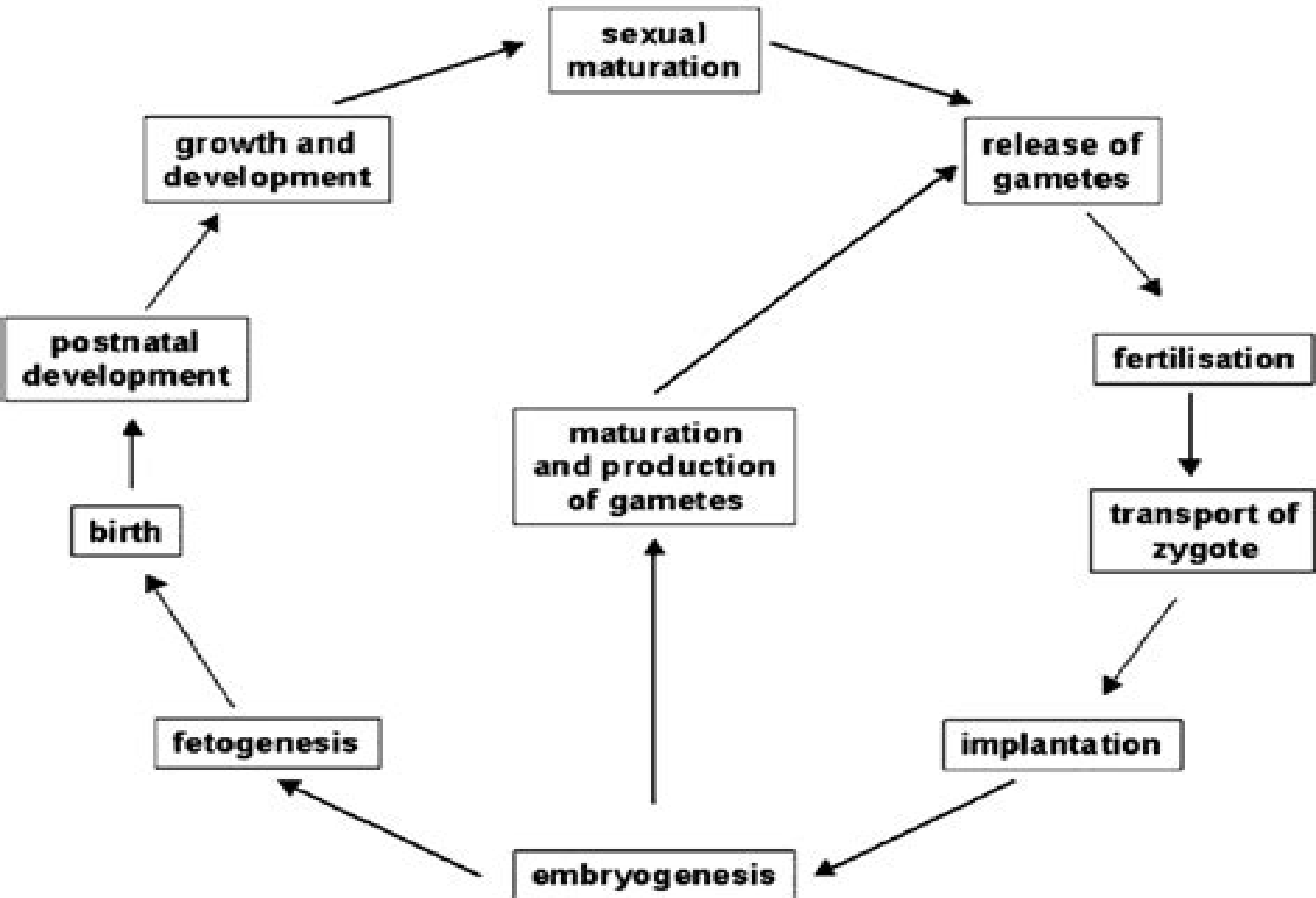


# The Mammalian Reproductive Cycle



# Patterns Of Mammalian Reproduction

**Sydney Arthur Asdell**



## **Patterns Of Mammalian Reproduction:**

**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* Sydney Arthur Asdell, 1964

The scaffolding: Sex determination and differentiation Puberty and sexual maturity The hormones concerned in reproduction The estrous cycle Pregnancy Factors influencing the life of spermatozoa The male accessory organs The fabric

Monotremata Marsupialia Insectivora Chiroptera Primates Carnivora Pinnipedia Cetacea Nomarthra Xenarthra Xenarthra Tubulidentata Lagomorpha Rodentia Hyracoidea Proboscidea Sirenia Artiodactyla Perissodactyla

*Patterns of Mammalian Reproduction* Richard Phillips Feynman, 1964      *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

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

**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

**Patterns of Mammalian Reproduction. Second Edition** Sydney Arthur ASDELL, 1965 *The Behavior Guide to African Mammals* Richard Estes, 1991 A work of tremendous scope Amateur naturalists and tourists to the parks of Africa and finally professionals will find this a stimulating well documented summary John F Eisenberg Florida Museum of Natural History We have seen in the field how very helpful and informative The Behavior Guide is Our knowledgeable safari guides turned often to their prized and already well thumbed copies and we continue to refer to ours now that we are back home Douglas F Williamson Jr National Council World Wildlife Fund U S A fascinating perceptive and enjoyable travel companion heightens the pleasure of being afield The Behavior Guide to African Mammals is that ideal companion Lucid accurate and marvelously illustrated the book is a basic reference for anyone interested in natural history George B Schaller author of The Serengeti Lion and The Deer and the Tiger A remarkable review of what is known about the larger African mammals A R E Sinclair The Ecology Group University of British Columbia

**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 Coloradoan 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 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 **Using the Biological Literature** Diane Schmidt, 2014-04-14 The biological sciences cover a broad array

of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries Using the Biological Literature A Practical Guide Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition 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

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

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**Squirrels of the World** Richard W. Thorington Jr., John L. Koprowski, Michael A. Steele, James F. Wharton, 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      Pattern of Mammalian Reproduction ,1946      Ontogeny, Functional Ecology, and Evolution of Bats Rick A. Adams, Scott C. Pedersen, 2000-06-15 The study of animal development has deep historical roots in codifying the field of evolutionary biology In the 1940s evolutionary theory became engulfed by analyses of microevolutionary genetics and development became focused on mechanisms forsaking the evolutionary implications of ontogeny Recently ontogeny has resurfaced as a significant component of evolutionary change and also of population and community dynamics Ontogeny Functional Ecology and Evolution of Bats is a reference work by bat biologists who emphasize the importance of understanding ontogeny in analyses of evolution and ecology In addition the developmental underpinnings of specialized morphology physiology and behaviour are elucidated and the strong influence of ecology on the ontological niche of juvenile bats is illustrated This book is an essential reference not only for bat biologists but for anyone working in the fields of ecology developmental biology evolution behaviour and systematics

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