

# MAMMALIAN REPRODUCTION

## Big Picture

Most mammals are viviparous and give birth to live young. Such mammals are therian mammals. Like all vertebrates, therian mammals have ovaries. However, therian mammals have two additional structures: the uterus and the vagina. Therian mammals can be split into two groups: placental mammals and marsupials. Only two living species of mammals are not viviparous, and they are grouped together as monotremes.

## Key Terms

**Therian Mammal:** Viviparous mammal that may be either a marsupial or placental mammal.

**Viviparous:** The characteristic of giving birth to live offspring.

**Uterus:** Female reproductive organ in therian mammals where an embryo or fetus grows and develops until birth.

**Vagina:** Female reproductive organ that receives sperm during sexual intercourse and provides a passageway for a baby to leave the mother's body during birth.

**Placental Mammals:** Therian mammal in which a placenta develops during pregnancy to sustain the fetus while it develops inside the mother's uterus.

**Placenta:** Temporary organ that consists of a large mass of maternal and fetal blood vessels through which the mother's and fetus's blood exchange substances.

**Marsupial:** Therian mammal in which the embryo is born at an early, immature stage and completes its development outside the mother's body in a pouch on her belly.

**Monotreme:** Type of mammal that reproduces by laying eggs.

## Placental Mammals

Therian mammals have a **uterus** and a **vagina**. The embryo develops inside the uterus.

- Most mammals are **placental mammals**; they are born as relatively large and developed as fetuses.
- These mammals are sustained inside their mother by a structure called a **placenta**.
  - The placenta allows blood from the fetus and mother to exchange substances without actually mixing together. This prevents the mother's immune system from attacking the fetus.
  - The placenta transfer oxygen, nutrients, and other substances to the fetus while the fetus passes carbon dioxide and other waste to the mother.



Figure: A fetus connected to its mother by a placenta.

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## Marsupials

A few mammals are **marsupials**, where the young are born and then develop inside the pouch of a mother.

- Before they are born, they are nourished from inside the uterus by a small yolk sack that contains nutrients.
- When the embryos are born, they enter their mother's pouch and then cling onto a nipple.
- Eventually, when the baby is mature enough, it leaves the pouch.
  - Examples of marsupials are kangaroos, koala bears, and opossums.

## Monotremes

There are five living species of non-therian mammals called **monotremes**. Monotremes are mammals that actually reproduce by laying eggs.

- Examples: platypus and echidna.
- Females lack uterus and vagina. They have cloaca like reptiles and birds.
- Eggs kept inside the mother for a couple of weeks.
- Mother provides the eggs with nutrients.
- Females lack nipples so they "sweat" milk on a patch on the belly.
- Less risk to the mother, but offspring less likely to survive due to difficulty of protecting the eggs

## Placental Mammals vs. Marsupials

	Placental Mammals	Marsupials
Pros	Babies have a higher chance of survival since they're well developed.	Mother's immune system is less likely to attack the baby since the embryo only spends short amount of time in mother's uterus.
Cons	Birth is very draining for the mother; she must eat more food and she loses mobility, making her more susceptible to predation.	The baby is extremely weak and has a lower chance of survival.

# Mammalian Quest For Knowledge Study Guide

**Robert C. Szaro, Kieth E.  
Severson, David R. Patton**



## **Mammalian Quest For Knowledge Study Guide:**

**Marine Mammal Health and Stranding Response Program**, 2009      *The Kingdon Field Guide to African Mammals*  
Jonathan Kingdon, 2015-04-23 This is the definitive field guide to African Mammals fully revised and updated following the publication of the groundbreaking *Mammals of Africa* 2013 Jonathan Kingdon one of the world's foremost authorities on African mammals has both written and illustrated this landmark field guide The unique combination of his extensive field experience and artistic talent has produced a stunning work that sets new standards The concise text provides full information on identification distribution ecology relationships and conservation status with introductory profiles that summarise the characteristics of each mammal group All known species of African land mammal are covered with coverage of several of the more complex groups of small mammals simplified by reference to genera Classification has been fully updated and this new edition includes many newly recognised species With over 780 colour illustrations numerous line drawings and more than 520 maps this book will be an essential companion to anyone visiting Africa or with an interest in the mammals of the continent      **Mammals of Africa: Volume I** Jonathan Kingdon, 2014-11-20 *Mammals of Africa MoA* is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa's mammals With more than 1 160 species and 16 18 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume follows the same format with detailed profiles of every species and higher taxa The series includes hundreds of colour illustrations and pencil drawings by Jonathan Kingdon highlighting the morphology and behaviour of the species concerned as well as line drawings of skulls and jaws by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Edited by Jonathan Kingdon David Happold Tom Butynski Mike Hoffmann Meredith Happold and Jan Kalina and written by more than 350 authors all experts in their fields *Mammals of Africa* is as comprehensive a compendium of current knowledge as is possible Extensive references alert readers to more detailed information This first volume in the series comprises eight introductory chapters covering topics such as evolution geography and geology biotic zones classification behaviour and morphology The rest of the book is devoted to the Afrotheria a grouping that comprises six orders and 49 species these are the hyraxes elephants manatees otter shrews golden moles sengis elephant shrews and Aardvark      **Mammal activity signs: Atlas, identification keys and research methods** Vadim Sidorovich, Nikolaj Vorobej, 2013-09-01      **Mammals of Ungava and Labrador** Scott A. Heyes, Kristofer M. Helgen, 2014-02-25 In 1882 the Smithsonian Institution Arctic scientist Lucien McShan Turner traveled to the Ungava District that encompasses Northern Quebec and Labrador There he spent 20 months as part of a mission to record

meteorological data for an International Polar Year research program While stationed at the Hudson s Bay Company Trading Post of Fort Chimo in Ungava Bay now the Inuit community of Kuujuaq he soon tired of his primary task and expanded his duties to a study of the natural history and ethnography of the Aboriginal peoples of the region His ethnography of the Inuit and Innu people was published in 1894 but his substantial writings on natural history never made it to print Presented here for the first time is the natural history material that Lucien M Turner wrote on mammals of the Ungava and Labrador regions His writings provide a glimpse of the habits and types of mammals that roamed Ungava 125 years ago in what was an unknown frontier to non Inuit and non Innu people

**A Field Guide to the Mammals of Central America and Southeast Mexico** Fiona A. Reid, 2009-06-09 This is the only field guide to provide comprehensive coverage of the mammals of Central America and southeast Mexico The fully revised second edition includes 21 new species as well as updated illustrations and distribution maps Each species account provides measurements descriptions and comparisons with similar species and is accompanied by a range map showing where the species can be found in the region The 49 full color animal plates contain similar species portrayed to scale on the same plate with tracks and feet shown on the facing page 4 new full color maps provide visual views of parks and protected areas biomes elevations and habitat loss as well as a political map of the region The book also features a detailed introduction with sections on how and where to find mammals and a listing of the most endangered species in the region

**Management of Amphibians, Reptiles, and Small Mammals in North America** Robert C. Szaro, Kieth E. Severson, David R. Patton, 1988 Historically the management of public lands from a multiple use perspective has led to a system that emphasizes those habitat components or faunal elements that primarily resulted in some sort of definable economic value While this often benefitted other species that were not even considered in the original prescriptions it also negatively impacted others We no longer can afford to take this simplistic view of ecosystem management We need to use a more holistic approach where ecological landscapes are considered as units and land management practices incorporate all elements into an integrated policy This includes examining the impacts of proposed land uses on amphibian reptile and small mammal populations

*Mammals of Africa* Jonathan Kingdon, David Happold, Thomas Butynski, Michael Hoffmann, Meredith Happold, Jan Kalina, 2013-05-23 WINNER OF THE 2014 DARTMOUTH MEDAL AWARDED BY THE AMERICAN LIBRARY ASSOCIATION Mammals of Africa represents a high water mark not just in mammalogy but in scientific publishing overall Magnificent Tim Flannery Macquarie University Sydney Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa s mammals With 1 160 species and 16 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume

follows the same format with detailed profiles of every species and higher taxa The series includes some 660 colour illustrations by Jonathan Kingdon and his many drawings highlight details of morphology and behaviour of the species concerned Diagrams schematic details and line drawings of skulls and jaws are by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Extensive references alert readers to more detailed information

Small Mammals Susan A. Brown, Karen L. Rosenthal, 1997-04-01 Veterinary practitioners are faced regularly by diseases and disorders in a large and ever increasing range of small mammalian patients The Editors have gathered together contributions from 29 experts who cover all aspects of medicine and surgery in small mammals including rabbits guinea pigs rodents hedgehogs ferrets primates squirrels fo

**Annual Report of the Marine Mammal Commission** United States. Marine Mammal Commission, 2007

**Bowker's Complete Video Directory 2001** ,2001

**The Wildlife Techniques Manual** Nova J. Silvy, 2012-03 A standard text in a variety of courses the Techniques Manual as it is commonly called covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages To effectively incorporate the explosion of new information in the wildlife profession this latest edition is logically organized into a two volume set Volume 1 is devoted to research techniques and Volume 2 focuses on management methodologies

**Final Environmental Impact Statement on the Use of Marine Mammals in Swim-with-the-dolphin Programs** ,1990

**Wild Mammals in Captivity** Devra G. Kleiman, Katerina V. Thompson, Charlotte Kirk Baer, 2010-08-15 Zoos aquaria and wildlife parks are vital centers of animal conservation and management For nearly fifteen years these institutions have relied on Wild Mammals in Captivity as the essential reference for their work Now the book reemerges in a completely updated second edition Wild Mammals in Captivity presents the most current thinking and practice in the care and management of wild mammals in zoos and other institutions In one comprehensive volume the editors have gathered the most current information from studies of animal behavior advances in captive breeding research in physiology genetics and nutrition and new thinking in animal management and welfare In this edition more than three quarters of the text is new and information from more than seventy five contributors is thoroughly updated The standard text for all courses in zoo biology Wild Mammals in Captivity will in its new incarnation continue to be used by zoo managers animal caretakers researchers and anyone with an interest in how to manage animals in captive conditions

**Monthly Catalog of United States Government Publications** ,1982

**Duetting and Turn-Taking Patterns of Singing Mammals: From Genes to Vocal Plasticity, and Beyond** Patrice Adret, Dena Jane Clink, Charles T. Snowdon, Sofya Dolotovskaya, 2023-10-23 Mammalian vocal duets and turn taking exchanges long coordinated acoustic signals exchanged between two individuals are primarily found in family living pair bonded mammals with a socially monogamous lifestyle some rodents some lemurs tarsiers titi monkeys a Mentawai langur gibbons and siamangs Duetting and turn taking patterns combine visual chemical tactile and auditory cues to produce some of the most exuberant displays in

the realm of animal communication How and why such phenotypes evolved independently across main lineages are fundamental questions at the core of the nature nurture debate Duetting styles ranging from antiphonal non overlapping to simultaneous overlapping emissions have now been documented in various taxa some of which are quite reminiscent of turn taking rules in human conversation Nonetheless much remains to be learned about this complex motor skill and at all four levels of analysis namely 1 developmental processes 2 causal mechanisms 3 functional properties and 4 evolutionary history Given the strong link between this form of coordinated singing and pair bonding gaining a deeper understanding of this kind of cooperative behavior will likely shed more light on the deep evolutionary roots of human culture language and music

**Mammals** Peter C. Alden, 2005-03-23 From the spotted pattern of an ocelot to the reddish yellow of a red fox coloring your own field guide is the most enjoyable way to learn about mammals Each drawing is accompanied by a brief description that educates as it entertains Place the new color stickers next to the drawings for a visual reference while coloring Coloring the drawings helps reinforce the color image and shape of each mammal improving your memory and perception while offering a pleasant and easy way to learn Fun for adults as well as children beginning and experienced naturalists alike

*Foreign Compound Metabolism in Mammals* D E Hathway, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

**Marine Mammal Protection Legislation** United States. Congress. Senate. National Ocean Policy Study, 1993

*Transforming Conservation* William J. Sutherland, 2022-12-07 There are severe problems with the decision making processes currently widely used leading to ineffective use of evidence faulty decisions wasting of resources and the erosion of public and political support In this book an international team of experts provide solutions The transformation suggested includes rethinking how evidence is assessed combined communicated and used in decision making using effective methods when asking experts to make judgements i e avoiding just asking an expert or a group of experts using a structured process for making decisions that incorporate the evidence and having effective

processes for learning from actions In each case the specific problem with decision making is described with a range of practical solutions Adopting this approach to decision making requires societal change so detailed suggestions are made for transforming organisations governments businesses funders and philanthropists The practical suggestions include twelve downloadable checklists The vision of the authors is to transform conservation so it is more effective more cost efficient learns from practice and is more attractive to funders However the lessons of this important book go well beyond conservation to decision makers in any field

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