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Marine Mammals of British Columbia Oct 24 2021 In *Marine Mammals of British Columbia* This book includes: more than 100 colour photographs to help identify species and show aspects of behaviour; colour illustrations of all species, showing distinctions between males, females and young; line drawings of skulls; maps showing sightings in BC; pointers on where to find each species and how to identify them at sea; and identification keys for whole animals and skeletal remains. *Marine Mammals of British Columbia* is an indispensable field guide and reference book for naturalists, boaters and anyone interested in sea life.

Himalayan Geology Mar 17 2021

Development of Circadian Rhythmicity and Photoperiodism in Mammals Mar 05 2020

[Nephrology and Urology of Small Animals](#) Sep 22 2021 *Nephrology and Urology of Small Animals* provides veterinarians with the knowledge needed to effectively diagnose and treat urologic diseases in canine, feline, and exotic patients. Serving as an easy-to-use, comprehensive clinical reference, the text takes an evidence-based approach to detailed coverage of specific diseases and disorders, including etiology and prevalence, clinical signs, diagnosis, treatment, prevention, prognosis, controversies, and references. Coverage also includes practical review of anatomy and physiology of the urinary system, fundamentals of diagnostic testing and therapeutic techniques.

IUCN Red List Categories and Criteria May 07 2020 The threatened species categories used in Red Data Books and Red Lists have been in place for almost 30 years. The IUCN Red List Categories and Criteria provide an easily and widely understood system for classifying species at high risk of global extinction, so as to focus attention on conservation measures designed to protect them. This latest version of the classification system was adopted by the IUCN Council in February 2001 and reflects comments from the IUCN and SSC memberships and the final meeting of the Criteria Review Working Group.

After the Dinosaurs Aug 29 2019 Perhaps nudged over the evolutionary cliff by a giant boloid striking the earth, the incredible and fascinating group of animals called dinosaurs became extinct some 65 million years ago (except for their feathered descendants). In their place evolved an enormous variety of land creatures, especially the mammals, which in their way were every bit as remarkable as their Mesozoic cousins. The Age of Mammals, the Cenozoic Era, has never had its Jurassic Park, but it was an amazing time in earth's history, populated by a wonderful assortment of bizarre animals. The rapid evolution of thousands of species of mammals brought forth gigantic hornless rhinos, sabertooth cats, mastodons and mammoths, and many other creatures--including our own ancestors. Their story is part of a larger story of a world emerging from the greenhouse conditions of the Mesozoic, warming up dramatically about 55 million years ago, and then cooling rapidly so that 33 million years ago the glacial ice returned. The earth's vegetation went through equally dramatic changes, from tropical jungles in Montana and forests at the poles, to grasslands and savannas across the entire world. Life in the sea also underwent striking evolution reflecting global climate change, including the emergence of such creatures as giant sharks, seals, sea lions, dolphins, and whales. *After the Dinosaurs* is a book for everyone who has an abiding fascination with the remarkable life of the past.

Diving Physiology of Marine Mammals and Seabirds Feb 25 2022 An up-to-date synthesis of comparative diving physiology research, illustrating the features of dive performance and its biomedical and ecological relevance.

[The Neurobiology of Olfaction](#) Dec 26 2021 *Comprehensive Overview of Advances in Olfaction* The common belief is that human smell perception is much reduced compared with other mammals, so that whatever abilities are uncovered and investigated in animal research would have little significance for humans. However, new evidence from a variety of sources indicates this traditional

view is likely overly simplistic. The Neurobiology of Olfaction provides a thorough analysis of the state-of-the-science in olfactory knowledge and research, reflecting the growing interest in the field. Authors from some of the most respected laboratories in the world explore various aspects of olfaction, including genetics, behavior, olfactory systems, odorant receptors, odor coding, and cortical activity. Until recently, almost all animal research in olfaction was carried out on orthonasal olfaction (inhalation). It is only in recent years, especially in human flavor research, that evidence has begun to be obtained regarding the importance of retronasal olfaction (exhalation). These studies are beginning to demonstrate that retronasal smell plays a large role to play in human behavior. Highlighting common principles among various species – including humans, insects, *Xenopus laevis* (African frog), and *Caenorhabditis elegans* (nematodes) – this highly interdisciplinary book contains chapters about the most recent discoveries in odor coding from the olfactory epithelium to cortical centers. It also covers neurogenesis in the olfactory epithelium and olfactory bulb. Each subject-specific chapter is written by a top researcher in the field and provides an extensive list of reviews and original articles for students and scientists interested in further readings.

Scientific and Medical Aspects of Human Reproductive Cloning Feb 13 2021 Human reproductive cloning is an assisted reproductive technology that would be carried out with the goal of creating a newborn genetically identical to another human being. It is currently the subject of much debate around the world, involving a variety of ethical, religious, societal, scientific, and medical issues. Scientific and Medical Aspects of Human Reproductive Cloning considers the scientific and medical sides of this issue, plus ethical issues that pertain to human-subjects research. Based on experience with reproductive cloning in animals, the report concludes that human reproductive cloning would be dangerous for the woman, fetus, and newborn, and is likely to fail. The study panel did not address the issue of whether human reproductive cloning, even if it were found to be medically safe, would be "or would not be" acceptable to individuals or society.

Marine Mammal Health and Stranding Response Program Dec 02 2019

A Handbook of the Mammals of India Sep 10 2020

Mammals Aug 22 2021 Relative newcomers within the story of evolution, mammals are hugely successful and have colonized land, water, and air. Tom Kemp discusses the great diversity of mammalian species, and looks at how their very disparate characteristics, physiologies, and behaviours are all largely driven by one unifying factor: endothermy, or warm-bloodedness.

Molecular Biology of the Cell Oct 12 2020

National Audubon Society Guide to Marine Mammals of the World Nov 12 2020 More than five hundred illustrations, paintings, and maps capturing 120 species of whales, dolphins, porpoises, seals, and sea lions are accompanied by information on each species.

Hand-Rearing Wild and Domestic Mammals Aug 02 2022 Veterinarians, technicians and wildlife caregivers are often called upon to have expertise in raising infant mammals. This book provides clear guidance to raising and caring for a wide variety of domestic, farm, wildlife, and zoo mammals from birth to weaning. Over thirty veterinary technicians, wildlife specialists, and veterinarians from around the world have contributed their expertise to this useful book that covers over 50 mammalian species. Some of the topics covered in each chapter of this book include: * Assessment of the neonate * Specialised equipment * Expected weight gains * Formula selection and preparation * Weaning techniques * Housing * Common medical problems Detailed chapters are devoted to the following animals: * Domestic animals: puppies, kittens, ferrets, sugar gliders and rabbits * Farm animals: foals, kids, llamas and piglets * Wildlife: squirrels, opossums, raccoons, rabbits, deer, foxes, bears, bats, and hedgehogs * Zoo animals: ungulates, non-domestic equids, exotic felids, polar bears, elephants, rhinoceroses, macropods, pinnipeds, large and small primates, lemurs and sloths Dr Laurie Gage is well known for her work and expertise in the rearing of seals, sea lions and walruses and has experience in rearing many other mammalian species.

Ecological and Environmental Physiology of Mammals May 31 2022 Mammals are the so-called "pinnacle" group of vertebrates, successfully colonising virtually all terrestrial environments as well as the air (bats) and sea (especially pinnipeds and cetaceans). How mammals function and survive in these diverse environments has long fascinated mammalogists, comparative physiologists and ecologists. Ecological and Environmental Physiology of Mammals explores the physiological mechanisms and evolutionary necessities that have made the spectacular adaptation of mammals possible. It summarises our current knowledge of the complex and sophisticated physiological approaches that mammals have for survival in a wide variety of ecological and environmental contexts: terrestrial, aerial, and aquatic. The authors have a strong comparative and quantitative focus in their broad approach to exploring mammal ecophysiology. As with other books in the Ecological and Environmental Physiology Series, the emphasis is on the unique physiological characteristics of mammals, their adaptations to extreme environments, and current experimental techniques and future research directions are also considered. This accessible text is suitable for graduate level students and researchers in the fields of mammalian comparative physiology and physiological ecology, including specialist courses in mammal ecology. It will also be of value and use to the many professional mammalogists requiring a concise overview of the topic.

The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Mar 29 2022 The seminal reference on the care of laboratory and captive animals, The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease of reference. This book is published on behalf of UFAW (The Universities Federation for Animal Welfare), with whom we also publish the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw> www.wiley.com/go/ufaw/a.

Infectious Diseases of Wild Mammals and Birds in Europe Jul 01 2022 Infectious Diseases of Wild Mammals and Birds in Europe is a key resource on the diagnosis and treatment of infectious

diseases in European wildlife that covers the distinctive nature of diseases as they occur in Europe, including strains, insect vectors, reservoir species, and climate, as well as geographical distribution of the diseases and European regulations for reporting, diagnosis and control. Divided into sections on viral infections, bacterial infections, fungal and yeast infections, and prion infections, this definitive reference provides valuable information on disease classification and properties, causative agents, epidemiology, pathogenesis, and implications for human, domestic and wild animal health. Key features: • Brings together extensive research from many different disciplines into one integrated and highly useful definitive reference. • Zoonotic risks to human health, as well as risks to pets and livestock are highlighted. • Each disease is covered separately with practical information on the animal species in which the disease has been recorded, clinical signs of the disease, diagnostic methods, and recommended treatments and vaccination. • Wildlife vaccination and disease surveillance techniques are described. • Examines factors important in the spread of disease such as changing climate, the movement of animals through trade, and relaxations in the control of wide animal populations.

Journal of the Malaysian Branch of the Royal Asiatic Society Jun 27 2019 Includes the annual report of the Malaysian Branch, Royal Asiatic Society.

Pathology of Wildlife and Zoo Animals Sep 03 2022 Pathology of Wildlife and Zoo Animals is a comprehensive resource that covers the pathology of wildlife and zoo species, including a wide scope of animals, disease types and geographic regions. It is the definitive book for students, biologists, scientists, physicians, veterinary clinicians and pathologists working with non-domestic species in a variety of settings. General chapters include information on performing necropsies, proper techniques to meet the specialized needs of forensic cases, laboratory diagnostics, and an introduction into basic principles of comparative clinical pathology. The taxon-based chapters provide information about disease in related groups of animals and include descriptions of gross and histologic lesions, pathogenesis and diagnostics. For each group of animals, notable, unique gross and microscopic anatomical features are provided to further assist the reader in deciding whether differences from the domestic animal paradigm are "normal." Additional online content, which includes text, images, and whole scanned glass slides of selected conditions, expands the published material resulting in a comprehensive approach to the topic. Presents a single resource for performing necropsies on a variety of taxa, including terrestrial and aquatic vertebrates and invertebrates Describes notable, unique gross and microscopic anatomical variations among species/taxa to assist in understanding normal features, in particular those that can be mistaken as being abnormal Provides consistent organization of chapters with descriptions of unique anatomic features, common non-infectious and infectious diseases following brief overviews of the taxonomic group Contains full-color, high quality illustrations of diseases Links to a large online library of scanned slides related to topics in the book that illustrate important histologic findings

Everything You Should Know About Jun 19 2021 National Learning Association presents: TURTLES AND DOLPHINS Are your children curious about Turtles and Dolphins? Would they like to know how baby turtles are born? Have they learnt how high a dolphin can jump or what the dolphin pod looks like? Inside this book, your children will begin a journey that will satisfy their curiosity by answering questions like these and many more! EVERYTHING YOU SHOULD KNOW ABOUT: TURTLES AND DOLPHINS will allow your child to learn more about the wonderful world in which we live, with a fun and engaging approach that will light a fire in their imagination. We're raising our children in an era where attention spans are continuously decreasing. National Learning Association provides a fun, and interactive way of keep your children engaged and looking forward to learn, with beautiful pictures, coupled with the amazing, fun facts. Get your kids learning today! Pick up your copy of National Learning Association EVERYTHING YOU SHOULD KNOW ABOUT: TURTLES AND DOLPHINS book now! Table of Contents Introduction Chapter 1- Turtles are Ectotherms Chapter 2- All Tortoises are Turtles, but Not All Turtles are Tortoises Chapter 3- Turtle Shells Come in a Variety of Different Colors Chapter 4- Turtles are Very Slow Creatures Chapter 5- Turtles Don't Need a Toothbrush Chapter 6- Sea Turtles Have an Interesting Diet Chapter 7- The Leatherback Sea Turtle Chapter 8- Turtles Have Excellent Night Vision Chapter 9- How are Baby Turtles Born? Chapter 10- Turtles Make Great Pets Chapter 11- Turtles are as Old as the Dinosaurs Chapter 12- A Turtle's Shell has Two Parts Chapter 13- Turtles are Stuck in Their Shells for Life Chapter 14- Turtles Rely on Their Vision to Get Around Chapter 15- Some Turtles Have Fins Instead of Feet Chapter 16- Sea Turtles are World Travelers Chapter 17- Giant Tortoises Still Exist Today Chapter 18- Turtles and Dogs Have Something in Common Chapter 19- Are Turtles Edible? Chapter 20- What are Dolphins? Chapter 21- Dolphins and Whales Come From the Same Family Species Chapter 22- Tell Me About Baby Dolphins Chapter 23- They are Quick Healers Chapter 24- How Big is a Dolphin? Chapter 25- How High Can a Dolphin Jump? Chapter 26- Each Dolphin Has a Unique Whistle Chapter 27- The Special Dorsal Fin Chapter 28- Dolphins Love to Swim Close to Each Other Chapter 29- What is the Difference Between River and Marine Dolphins? Chapter 30- Are They Friendly or Aggressive? Chapter 31- Dolphins are Hairless Mammals Chapter 32- How Good is Their Sense of Smell, Sight, and Touch? Chapter 33- What are the Different Types of Dolphin Fins? Chapter 34- What Do Dolphins Eat? Chapter 35- How Do Dolphins Communicate? Chapter 36- How Do Dolphins Move? Chapter 37- What is a Dolphin Pod Like? Chapter 38- What are Freshwater Dolphins? Chapter 39- How Do Dolphins Sleep? Chapter 40- How Long Do Dolphins Live?

Medical Toxicology of Natural Substances Sep 30 2019 Interest and information in the field of medical toxicology has grown rapidly, but there has never been a concise, authoritative reference focused on the subjects of natural substances, chemical and physical toxins, drugs of abuse, and pharmaceutical overdoses. Medical Toxicology of Natural Substances finally gives you an easily accessible resource for vital toxicological information on foods, plants, and animals in key areas in the natural environment.

Evolution of Island Mammals Nov 05 2022 EVOLUTION OF ISLAND MAMMALS Evolution on islands differs in a number of important ways from evolution on mainland areas. Over millions of years of isolation, exceptional and sometimes bizarre mammals evolved on islands, such as pig-sized elephants and hippos, giant rats and gorilla-sized lemurs that would have been formidable to their mainland ancestors. Evolution of Island Mammals, Second Edition, provides an updated and expanded overview of the current knowledge on fossil island mammals worldwide, ranging from the Oligocene to the onset of the Holocene. The book addresses evolutionary processes and key aspects of insular mammal biology, exemplified by a variety of fossil species. Readers familiar with the first edition will find here a host of updated and enhanced material, including: An entirely new chapter on the island rule Updated and expanded theoretical chapters Updated and improved taxonomic information Extensive coverage of new discoveries Body masses or body size indices for most extinct island mammals New figures visualizing the richness of the fossil record This accessible and richly illustrated textbook is written for graduate level students and professional researchers in evolutionary biology, palaeontology, biogeography, zoology, and ecology.

Mammal Teeth Aug 10 2020 His book is a must-read for paleontologists, mammalogists, and anthropologists.

Marine Anthropogenic Litter Jan 03 2020 This book describes how man-made litter, primarily plastic, has spread into the remotest parts of the oceans and covers all aspects of this pollution problem from the impacts on wildlife and human health to socio-economic and political issues. Marine litter is a prime threat to marine wildlife, habitats and food webs worldwide. The book illustrates how advanced technologies from deep-sea research, microbiology and mathematic modelling as well as classic beach litter counts by volunteers contributed to the broad awareness of marine litter as a problem of global significance. The authors summarise more than five decades of marine litter research, which receives growing attention after the recent discovery of great oceanic garbage patches and the ubiquity of microscopic plastic particles in marine organisms and habitats. In 16 chapters, authors from all over the world have created a universal view on the diverse field of marine litter pollution, the biological impacts, dedicated research activities, and the various national and international legislative efforts to combat this environmental problem. They recommend future research directions necessary for a comprehensive understanding of this environmental issue and the development of efficient management strategies. This book addresses scientists, and it provides a solid knowledge base for policy makers, NGOs, and the broader public.

Zoo and Wild Animal Dentistry Jan 15 2021 Zoo and Wild Animal Dentistry ist das erste umfassende Referenzwerk, das sich mit oralen Krankheitsbildern und dentalen Therapien bei exotischen Wildtieren und Exoten in Gefangenschaft beschäftigt. Die Herausgeber sind anerkannte Experten des Fachgebiets und beschreiben die Zahnpflege bei einer Vielzahl von Spezies. Der Fokus liegt dabei auf der Zahngesundheit. Das Praktikerbuch zur Behandlung von Exoten bietet eine Fülle von Fotos und Illustrationen, die Krankheitsbilder klar erläutern und Verfahren vorstellen. Die Publikation greift auf die langjährige Erfahrung der Herausgeber mit exotischen Tieren zurück und ist eine zuverlässige Referenz mit Informationen zur Geschichte der veterinärmedizinischen Zahnheilkunde, zur Zahnentwicklung, zu Zahntherapeutika aus der Praxis und Beschreibungen des Zahnapparats von mehr als 300 Spezies. Zoo and Wild Animal Dentistry behandelt eine Vielzahl von Zoo- und Wildtieren, darunter Katzen, Bären, Primaten, Hunde, Waschbären, Wiesel, Hyänen, Beuteltiere, Pflanzenfresser, zaharme Säugetiere, Meeressäuger, Vögel, Reptilien u.v.m. Dieses wichtige Referenzwerk - beschreibt umfassend eine Fülle oraler Krankheitsbilder und dentaler Therapien bei exotischen Wildtieren und Wildtieren in Gefangenschaft - unterstreicht insbesondere die Bedeutung der Zahngesundheit für die allgemeine Tiergesundheit. - informiert über die jüngsten Fortschritte und Errungenschaften in dem Fachgebiet. - enthält einen wegweisenden Fundus an Ideen für die Zahnpflege exotischer Wildtiere. Das Buch richtet sich an Wildtierpfleger und Veterinärmediziner, Fachveterinäre für Zahnheilkunde, Veterinärtechniker und Studenten der Veterinärmedizin. Zoo and Wild Animal Dentistry ist ein Praktikerbuch mit allem Wissenswerten rund um die Zahnpflege bei einer Vielzahl von Tierrassen, denen immer wieder zu wenig Beachtung geschenkt wird.

Endangered and Extinct Mammals Oct 31 2019 Audisee® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! Asian elephants and Mexican long-nosed bats are two examples of endangered mammals. Few of them exist in the wild. Other mammals have already gone extinct. What hurts these animals? What can you do to help? Read this book to find out!

Mammalian Development Jan 27 2022 "A subject collection from Cold Spring Harbor perspectives in biology."

Collins European Mammals Jun 07 2020 Examines the evolution and adaptation of mammals. Looks at many facets of their behaviour including reproduction, feeding, communication and social behaviour. Illus.

The Oxford Book of Vertebrates: Cyclostomes, Fish, Amphibians, Reptiles and Mammals Apr 29 2022 Details the characteristics, traits, and habitat of all the vertebrate species, excluding birds, found in Great Britain

Threatened Mammals of India Dec 14 2020 Threatened Mammals of India: Ecology and Management is an attempt to compile various aspects of morphology, ecology and behaviour of several threatened mammals found in India and are considered to be important from conservation point of view. This book also depicts their distribution, threats and present conservation status along with colour photographs and illustrations for their better management in the wild as well as creating mass awareness regarding our rich wildlife heritage, the plight of these threatened species and most importantly indicating the role of common people for their successful conservation. This guide is ment to serve as an important resource for students, academicians, naturalists, wildlife activists as well as any person having interest in the field of wildlife conservation. A distinctly separate chapter on Wildlife Conservation: Indian initiative has been incorporated which summarizes the available information and Indian efforts towards wildlife conservation. Contents Critically Endangered; Chapter 1: Pygmy Hog *Sus salvanius* (Hodgson); Chapter 2: Asiatic Lion *Panthera leo persica* (Meyer); Chapter 3: Malabar Large-spotted Civet *Viverra civettina* (Blyth); Endangered; Chapter 4: Lion-Tailed Macaque *Macaca silenus* (Linnaeus); Chapter 5: Golden Langur *Trachypithecus geei* (Khajuria); Chapter 6: Capped Langur *Trachypithecus pileatus* (Blyth); Chapter 7: Hoolock Gibbon *Bunopithecus hoolock* (Harlan); Chapter 8: Tibetan Antelope or Chiru *Pantholops hodgsonii* (Abel); Chapter 9: Nilgiri Tahr *Hemitragus hylocrius* (Ogilby); Chapter 10: Markhor *Capra falconeri* (Wagner); Chapter 11: Asiatic Wild Buffalo *Bubalus bubalis* (Linnaeus); Chapter 12: Greater One-horned Rhinoceros *Rhinoceros unicornis* (Linnaeus); Chapter 13: Asian Elephant *Elephas maximus* Linnaeus; Chapter 14: Slender Loris *Loris tardigradus* (Linnaeus); Chapter 15: Red Panda *Ailurus fulgens* (Cuvier); Chapter 16: Asiatic Wild Dog or Dhole *Cuon alpinus* (Pallas); Chapter 17: Tiger *Panthera tigris tigris* (Linnaeus); Chapter 18: Snow Leopard *Uncia uncia* (Schreber); Chapter 19: Hispid Hare *Caprolagus hispidus* (Person); Chapter 20: Gangetic Dolphin *Platunista gangetica* (Roxburgh); Vulnerable; Chapter 21: Brow-antlered Deer or Sangai *Cervus eldii eldii* (M Clelland); Chapter 22: Swamp Deer or Barasingha *Cervus duvaucelii* (G Cuvier); Chapter 23: Urial or Shapu *Ovis orientalis* (Gmelin); Chapter 24: Indian Bison or Gaur *Bos gaurus* (H Smith); Chapter 25: Wild Yak *Bos mutus* (Przewalski); Chapter 26: Asiatic Wild Ass *Equus onager khur* (Lesson); Chapter 27: Sloth Bear *Melursus ursinus* (Shaw); Chapter 28: Clouded Leopard *Neofelis nebulosa* (Griffith); Chapter 29: Golden Cat *Catopuma temminckii* (Vigors and Horsfield); Chapter 30: Fishing Cat *Prionailurus viverrinus* (Bennett); Chapter 31: Indian Giant Squirrel *Ratufa indica* (Erxleben); Near Threatened and Lower Rick; Chapter 32: Indian Antelope or Blackbuck Antelope *Cervicapra* (Linnaeus); Chapter 33: Blue Sheep or Bharal *Pseudois nayaur* (Hodgson); Chapter 34:

Himalayan Musk Deer *Moschus chrysogaster* (Hodgson); Chapter 35: Himalayan Brown Bear *Ursus arctos* (Horsfield); Chapter 36: Leopard *Panthera pardus* (Linnaeus)

Low-Frequency Sound and Marine Mammals Apr 05 2020 This volume reviews the current state of knowledge regarding the effects of low-frequency sound on marine mammals and makes recommendations for research. In addition, the book describes current federal regulations prescribed under the Marine Mammal Protection Act that govern the taking of marine mammals by scientific research activities, and it recommends changes to expedite the regulatory process dealing with scientific research activities.

Guide for the Care and Use of Laboratory Animals May 19 2021 A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

The Design of Mammals Jul 29 2019 Despite an astonishing 100 million-fold range in adult body mass from bumblebee bat to blue whale, all mammals are formed of the same kinds of molecules, cells, tissues and organs and to the same overall body plan. A scaling approach investigates the principles of mammal design by examining the ways in which mammals of diverse size and taxonomy are quantitatively comparable. This book presents an extensive reanalysis of scaling data collected over a quarter of a century, including many rarely or never-cited sources. The result is an unparalleled contribution to understanding scaling in mammals, addressing a uniquely extensive range of mammal attributes and using substantially larger and more rigorously screened samples than in any prior works. An invaluable resource for all those interested in the 'design' of mammals, this is an ideal resource for postgraduates and researchers in a range of fields from comparative physiology to ecology.

Infectious Diseases of Wild Mammals Jul 09 2020 *Infectious Diseases of Wild Mammals, Third Edition* presents the latest information on the diagnosis and treatment of infectious disease in both free-ranging and captive wild mammals. Editors Elizabeth Williams and Ian Barker have recruited 71 contributors, all noted experts in their fields, to update this new edition. This reference provides valuable information on each disease, including Etiology History Distribution Epidemiology Clinical signs Pathology Immunity Diagnosis Treatment Control This latest edition is a leading reference book for Wildlife biologists, managers, and rehabilitators Biology students Conservationists Public health workers

The Animal Book Feb 02 2020 The wonders of the natural world come to life in full colour in the ultimate book on animals and insects *The Animal Book* is the complete guide to the natural world for curious children and budding naturalists. From the tiny toadstool to the giant oak, the smallest spider to the largest elephant, the wonders of life are here to see in stunning photo galleries. With over 1,500 species of animals and plants to learn about, *The Animal Book* is perfect for school projects and homework. The 'Tree of Life' at the start of the book will show you how species are connected, as well as guiding you through everything from microscopic life to fish, birds, reptiles and mammals. Ever wondered how a polar bear looks when trying to catch fish? Amazing full page pictures show you animals in their natural habitats, going about their lives. Fact boxes and amazing galleries take you on a complete learning journey. *The Animal Book* really is the ultimate book on the natural world, from A(moeba) to Z(ebra).

Wild Mammals in Captivity Nov 24 2021 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.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research Apr 17 2021 Expanding on the National Research Council's™ *Guide for the Care and Use of Laboratory Animals*, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. *Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research* offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's™ well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-

being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the intricacies of neuroscience and behavioral research.

Encyclopedia of Marine Mammals Oct 04 2022 This thorough revision of the classic Encyclopedia of Marine Mammals brings this authoritative book right up-to-date. Articles describe every species in detail, based on the very latest taxonomy, and a host of biological, ecological and sociological aspects relating to marine mammals. The latest information on the biology, ecology, anatomy, behavior and interactions with man is provided by a cast of expert authors – all presented in such detail and clarity to support both marine mammal specialists and the serious naturalist. Fully referenced throughout and with a fresh selection of the best color photographs available, the long-awaited second edition remains at the forefront as the go-to reference on marine mammals. More than 20% NEW MATERIAL includes articles on Climate Change, Pacific White-sided Dolphins, Sociobiology, Habitat Use, Feeding Morphology and more Over 260 articles on the individual species with topics ranging from anatomy and behavior, to conservation, exploitation and the impact of global climate change on marine mammals New color illustrations show every species and document topical articles FROM THE FIRST EDITION “This book is so good...a bargain, full of riches...packed with fascinating up to date information. I recommend it unreservedly it to individuals, students, and researchers, as well as libraries.” --Richard M. Laws, MARINE MAMMALS SCIENCE "...establishes a solid and satisfying foundation for current study and future exploration" --Ronald J. Shusterman, SCIENCE

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