

Animal Biology And Care

The Biology, Husbandry and Health Care of Reptiles
Animal Biology and Care
Principles of Laboratory Animal Science
Withrow and MacEwen's Small Animal Clinical Oncology - E-Book
Nonhuman Primates in Biomedical Research
The Common Marmoset in Captivity and Biomedical Research
Friendship: The Evolution, Biology, and Extraordinary Power of Life's Fundamental Bond
Biology of Growth of Domestic Animals
Biology and Diseases of the Ferret
Elephants Under Human Care
Animal Eyes
Guide for the Care and Use of Laboratory Animals
Management of Animal Care and Use Programs in Research, Education, and Testing
Animal Biology and Care
Principles of Animal Biology
Dictionary of Zoo Biology and Animal Management
What Animals Want
Ferrets, Rabbits, and Rodents
Companion Animals
Animal Agriculture
The Biology of the Guinea Pig
Water Bear Don't Care
Medical Management of Wildlife Species
So, You Want to Work with Animals?
Introduction to Animal and Veterinary Anatomy and Physiology, 4th Edition
Fundamentals of Microbiome Science
Fowler's Zoo and Wild Animal Medicine, Volume 8 - E-Book
Animal Biology and Care
Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research
Laboratory Hamsters
Use of Laboratory Animals in Biomedical and Behavioral Research
Instant Notes Animal Biology
Occupational Health and Safety in the Care and Use of Research Animals
The Zebrafish in Biomedical Research
Animal Behavior
Animal Sciences
Wild Moms: Motherhood in the Animal Kingdom
The Political Animal
Introduction to Veterinary Anatomy and Physiology
Revision Aid
Pathology of Wildlife and Zoo Animals

The Biology, Husbandry and Health Care of Reptiles

This textbook is intended as a comprehensive introduction to the biology, care, and production of domestic animals and freshwater sh raised to provide food, as well as pets kept for companionship and recreation. The authors teaching and research experiences in agriculture, animal and dairy sciences, and veterinary medicine provide the professional expertise that underpins the clearly written discussions of advances in animal sciences affecting humans globally. Coverage includes breeds and life cycles of livestock and poultry; nutritional contributions of animal products to humans; the principles of animal genetics, anatomy, and physiology including reproduction, lactation and growth; animal disease and public health; and insects and their biological control. Each chapter stands on its own. Instructors can assign higher priority to certain chapters and arrange topics for study in keeping with their preferred course outlines. The text has been classroom-tested for four decades in more than 100 colleges and universities at home and abroad. Additionally, it is pedagogically enhanced with glossary terms in boldface type, study questions at the end of each chapter, more than 350 illustrations, and historical and philosophical quotations. These useful features aid students in comprehending scientific concepts as well as enjoying the pleasures derived from learning more about food-producing animals, horses, and popular pets.

Animal Biology and Care

Comprehensive and up-to-date, this book makes a useful reference devoted to

companion animals. It provides underpinning principles and time-tested practical information for those preparing for careers related to the health and quality of life of all creatures—with special emphasis on companion animals. Chapter topics include choosing a dog or cat; companion birds, reptiles, amphibians, rodents, ferrets, and lagomorphs; medical records and case histories; feeding and nutrition; care, management, and training of dogs and cats; fitting, grooming, and showing; companion animal health; kennel/cattery design and management; career opportunities associated with companion animals; and trends/future of companion animals and related functions. For pet food manufacturers, pet stores, pet owners, pet breeders, and veterinary medical groups.

Principles of Laboratory Animal Science

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

Withrow and MacEwen's Small Animal Clinical Oncology - E-Book

Larry Carbone, a veterinarian who is in charge of the lab animal welfare assurance program at a major research university, presents this scholarly history of animal rights. Biomedical researchers, and the less fanatical among the animal rights activists will find this book reasonable, humane, and novel in its perspective. It brings a novel, sociological perspective to an area that has been addressed largely from a philosophical perspective, or from the entrenched positions of highly committed advocates of a particular position in the debate.

Nonhuman Primates in Biomedical Research

Understanding companion animal anatomy and physiology is the foundation to providing good veterinary care, but the underlying concepts covered in the classroom are not always easy to relate to everyday clinical practice.

INTRODUCTION TO VETERINARY ANATOMY AND PHYSIOLOGY REVISION AIDS provide a fun and effective means to test the student's knowledge. The new edition of Introduction to Veterinary Anatomy and Physiology Workbook reinforces the fundamental concepts of anatomy and physiology using crosswords, word searches, mnemonics, quizzes, labelling diagrams, and more. Introduction to Veterinary Anatomy and Physiology Flashcards provide a mobile and accessible way to learn and revise, whether individually or in groups. A unique way to revise a complex subject Interactive quizzes and practical tasks facilitate group study All major companion animal species covered, including birds, mammals, reptiles, fish, and horses Workbook 2nd edition, approx. 196 pages, including approx. 120 illustrations 240 Flashcards, including approx. 150 illustrations

The Common Marmoset in Captivity and Biomedical Research

This is a student-friendly compendium of the essentials of animal biology, including the Animal Kingdom, comparative physiology, reproductive physiology and developmental biology.

Friendship: The Evolution, Biology, and Extraordinary Power of Life's Fundamental Bond

This dictionary is intended as a guide to the terminology used in a wide range of animal-related programmes of study including agriculture, animal care, animal management, animal production, animal welfare, veterinary nursing, wildlife conservation and zoobiology. In total it contains over 5,300 entries. It contains a wide range of terms used in the fields of veterinary science, physiology and zoology, as students whose primary interests are animal welfare or zoo biology also need to have some understanding of disease, how animal bodies function and how animals are classified. It also contains some legal terms, and reference to some legal cases, to help students understand how the protection, use and conservation of animals is regulated by the law. Some people, famous animals, literature and films have influenced the way we think about, and behave towards, animals. For this reason, the book includes references to important books about animals, famous animals who have starred in films or been the subject of scientific studies, along with short biographies of famous scientists and others who have studied animals or established conservation or animal welfare organisations.

Biology of Growth of Domestic Animals

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world),

and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Biology and Diseases of the Ferret

Biology and Diseases of the Ferret, Third Edition has been thoroughly revised and updated to provide a current, comprehensive reference on the ferret. Encyclopedic in scope, it is the only book to focus on the characteristics that make the ferret an important research animal, with detailed information on conditions, procedures, and treatments. Offering basic information on biology, husbandry, clinical medicine, and surgery, as well as unique information on the use of ferrets in biomedical research, Biology and Diseases of the Ferret is an essential resource for investigators using ferrets in the laboratory and for companion animal and comparative medicine veterinarians. The Third Edition adds ten completely new chapters, covering regulatory considerations, black-footed ferret recovery, diseases of the cardiovascular system, viral respiratory disease research, morbillivirus research, genetic engineering, hearing and auditory function, vision and neuroplasticity research, nausea and vomiting research, and lung carcinogenesis research. Additionally, the anesthesia, surgery, and biomethodology chapter has been subdivided into three and thoroughly expanded. The book also highlights the ferret genome project, along with the emerging technology of genetically engineered ferrets, which is of particular importance to the future of the ferret as an animal model in research and will allow the investigation of diseases and their genetic basis in a small, easily maintained, non-rodent species.

Elephants Under Human Care

Table of Contents - The Golden or Syrian Hamster - Historical Perspectives and Taxonomy. Morphophysiology. Clinical Chemistry and Hematology. Care and Management. Biomethodology. Viral Diseases. Bacterial and Mycotic Diseases. Parasitic Diseases. Neoplastic Diseases. Noninfectious Diseases. Drugs Used in Hamsters with a Review of Antibiotic-Associated Colitis. Experimental Biology - Use in Oncologic Research. Experimental Biology - Use in Immunobiology. Experimental Biology - Use in Infectious Disease Research. Experimental Biology - Genetic Models in Biomedical Research. Experimental Biology - Other Research Uses of Syrian Hamsters. Appendix - Selected Normative Data for the Syrian Golden Hamster. The Striped or Chinese Hamster - Biology and Care. Diseases. Use in Research. The European Hamster - Biology, Care, and Use in Research. Other Hamsters - Biology, Care, and Use in Research. Index.

Animal Eyes

"In the tenth installment of the BE WHAT YOU WANT series, *So, You Want to Work With Animals?* introduces readers to the diverse fields that work hands-on with animals of all shapes, sizes, and species. From what classes to take in school to exploring what these jobs are really like--the fun stuff, the hard stuff, and even the gross stuff, this book reveals the steps it takes to pursue a childhood dream. Whether animals are big or small, domestic or wild, there are many careers that provide rewarding experiences such as: - Veterinarian - Zookeeper - Wildlife Photographer - K9 Officer - Marine Biologist - And more! In addition to tips and interviews from animal experts in professional industries, *So, You Want to Work with Animals?* includes inspiring stories from kids who currently work with animals as well as activities, a glossary, and resources to help kids pave the path to their dream job! Jane (J. M.) Bedell spent her childhood daydreaming in hayfields, talking to cows, and finding heroes between the pages of books. She is a full-time writer of historical fiction and nonfiction for children. She received her MFA in creative writing from Hamline University in Minnesota. She lives in rural Oregon with her husband and a plethora of animals. Visit her at jmbedell.com."--

Guide for the Care and Use of Laboratory Animals

The Common Marmoset in Captivity and Biomedical Research is the first text dedicated exclusively to this species, filling an urgent need for an encyclopedic compilation of the existing information. Sponsored by the American College of Laboratory Animal Medicine as part of its authoritative Blue Book series, the book covers the biology, management, diseases, and clinical and research applications of this important species. The common marmoset (*Callithrix jacchus*) has come of age in the scientific community as a behaviorally complex, cognitively advanced, small, prolific, and easily maintained nonhuman primate with many of the advantages of larger animals, such as macaques, but without the attendant physical and zoonotic risks. Marmosets are currently being used in diverse areas of inquiry, including vision and auditory research, infectious disease, cognitive neuroscience, behavior, reproductive biology, toxicology and drug development, and aging. The marmoset genome has been sequenced and there is currently an intensive effort to apply gene editing technologies to the species. The creation of transgenic marmosets will provide researchers with a small nonhuman primate model to study a number of poorly understood disorders, like autism. Presents a complete view of the marmoset, covering their biology and management, diseases and clinical applications, and research applications Includes contributions from renowned and international authors and editors Provides the first authoritative and comprehensive treatment of marmosets in biomedical research as part of the ACLAM Series

Management of Animal Care and Use Programs in Research, Education, and Testing

The Zebrafish in Biomedical Research: Biology, Husbandry, Diseases, and Research Applications is a comprehensive work that fulfills a critical need for a thorough compilation of information on this species. The text provides significant updates for working vivarium professionals maintaining zebrafish colonies, veterinarians responsible for their care and well-being, zoologists and ethologists studying the

species, and investigators using the species to gain critical insights into human physiology and disease. As the zebrafish has become an important model organism for the study of vertebrate development and disease, organ function, behavior, toxicology, cancer, and drug discovery, this book presents an important resource for future research. Presents a complete view of the zebrafish, covering their biology, husbandry, diseases and research applications Includes the work of world-renowned authors Provides the first authoritative and comprehensive treatment of zebrafish in biomedical research as part of the ACLAM series

Animal Biology and Care

The perfect study companion, *Animal Biology and Care*, 3rd Edition is specifically designed for students on animal care, animal nursing assistant and veterinary care assistant courses. This edition is fully updated with new course content, a refreshed design and colour illustrations throughout. Basic biological theory is introduced with diagrams for visual learners while photographs demonstrate the common practical procedures carried out by animal care assistants. Key features include: New content on exotic species, recognising the increasing number of these animals kept as pets. Extensive coverage of the Animal Welfare Act 2006 and recent advances in animal welfare. Written in line with course curricula, chapter summaries help you to remember key points and learning objectives. A companion website has interactive MCQs to help you test your knowledge. Divided into three main sections covering animal science and genetics, health and husbandry and nursing procedures, this book will help lay the foundations for a successful career in animal care and management!

Principles of Animal Biology

This book offers an all-encompassing resource for reliable information on the medical management of wild birds, mammals, amphibians, and turtles. Focusing on the medical information relevant to the wildlife setting, it covers triage, emergency care, and other key considerations in handling, diagnosing, and treating wild animals. The book's population-based approach encourages practitioners to understand individual animal care within the broader context. *Medical Management of Wildlife Species: A Guide for Practitioners* begins with a brief summary of natural history, and introductory chapters address general topics such as pre-release conditioning, post-release monitoring, and legal issues associated with handling wildlife species. Species-specific chapters provide practical information on medical management, including the most prevalent concerns for each species and the epidemiology of infectious diseases. Provides a complete reference to handling, diagnosing, and treating wild species Covers the full range of North American wildlife Includes concepts that can be applied to species globally Emphasizes information relevant to the wildlife setting Focuses on individual medicine, firmly grounded within population medicine for a broader approach Targeted at wildlife veterinarians, veterinary clinicians that will be presented with wildlife, veterinary technicians, and wildlife rehabilitators *Medical Management of Wildlife Species* is a must-have addition to the bookshelf of wildlife veterinarians and any veterinarian seeing occasional wild animals, as well as wildlife biologists and researchers.

Dictionary of Zoo Biology and Animal Management

The latest advances in knowledge of growth biology are now available in a single, seminal volume. *Biology of Growth of Domestic Animals* critically examines the fundamental process of growth both from a systems viewpoint (mathematical aspects, modeling, cell and molecular biology, hormones, growth factors, the extra-cellular matrix) and at the organ level (muscle, adipose, mammary gland and bone). The text considers the interface of growth with other disciplines including nutrition, genetics, and environment management, as well as specific aspects of growth in livestock and companion animal species. Man's relationship with animals is reviewed as an introduction to the importance of domestic animals which have been critical to human development providing nutrition, income, transportation, locomotive power, companionship and entertainment.

What Animals Want

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.

Ferrets, Rabbits, and Rodents

You love funny puns, humorous sayings and quotes? Then this men, women & kids notebook is just the thing for you! Perfect for science teachers, biology students, as lab experiment journal or laboratory workbook. 100 college ruled blank lined duo sided bright white pages 6 x 9 dimensions, portable size (bag, school, home, work, desc,) High quality Glossy softbound cover designed with love Makes an ideal present for any gift giving occasion Perfect gift idea for: birthdays, back to school, christmas, thanksgiving, family & friends, notebook & planner lovers, teachers, graduation gifts, co-workers, boss gift, gift baskets,

Companion Animals

This book draws together, for the first time, the published research on the behaviour, ecology and welfare of elephants living in zoos, circuses, logging camps and other captive environments in a single comprehensive volume. It takes a multi-disciplinary approach, considering the work of zoo biologists, animal behaviour and welfare scientists, veterinarians, philosophers, zoo educators, tourism specialists, conservation biologists, lawyers and others with a professional interest in elephants. *Elephants under Human Care: The Behaviour, Ecology, and Welfare of Elephants in Captivity* is a valuable resource for zoo biology and animal welfare researchers. It is also useful for students and zoo professionals and managers looking for a comprehensive guide to current research on captive elephants. Although not intended as a husbandry manual, the book discusses some of the elephant welfare standards developed by the Association of Zoos and Aquariums (AZA) and the British and Irish Association of Zoos and Aquariums (BIAZA) and their relationship to current knowledge of captive elephants. Includes results of captive studies compared with field studies of wild elephants Features original images of elephant behaviour as they live and behave under human care Includes results of the author's original research including many original photographs Considers future implications of research for the welfare and conservation of elephants, both for elephants in captivity and those living in the wild

Animal Agriculture

A revelatory investigation of friendship, with profound implications for our understanding of what humans and animals alike need to thrive across a lifetime. The phenomenon of friendship is universal and elemental. Friends, after all, are the family we choose. But what makes these bonds not just pleasant but essential, and how do they affect our bodies and our minds? In *Friendship*, science journalist Lydia Denworth takes us in search of friendship's biological, psychological, and evolutionary foundations. She finds friendship to be as old as early life on the African savannas—when tribes of people grew large enough for individuals to seek fulfillment of their social needs outside their immediate families. Denworth sees this urge to connect reflected in primates, too, taking us to a monkey sanctuary in Puerto Rico and a baboon colony in Kenya to examine social bonds that offer insight into our own. She meets scientists at the frontiers of brain and genetics research and discovers that friendship is reflected in our brain waves, our genomes, and our cardiovascular and immune systems; its opposite, loneliness, can kill. At long last, social connection is recognized as critical to wellness and longevity. With insight and warmth, Denworth weaves past and present, field biology and neuroscience, to show how our bodies and minds are designed for friendship across life stages, the processes by which healthy social bonds are developed and maintained, and how friendship is changing in the age of social media. Blending compelling science, storytelling, and a grand evolutionary perspective, Denworth delineates the essential role that cooperation and companionship play in creating human (and nonhuman) societies. *Friendship* illuminates the vital aspects of friendship, both visible and invisible, and offers a refreshingly optimistic vision of human nature. It is a clarion call for putting positive relationships at the center of our lives.

The Biology of the Guinea Pig

A sound knowledge of anatomy and physiology is an essential basis for the effective clinical treatment of companion animals and farm animals alike. The fourth edition of this bestselling book continues to provide a comprehensive description of the anatomy and physiology of dogs and cats. The book builds on these foundations with detailed descriptions of exotic small species including birds, and domestic farm animals, including cows, sheep and pigs, as well as the horse.

Water Bear Don't Care

With a unique focus on the most effective interventional techniques, Withrow & MacEwen's Small Animal Clinical Oncology, 5th Edition tells the full story of cancer in dogs and cats — what it is, how to diagnose it, and how to treat many of the most common cancers encountered in clinical practice. Nearly 500 color photographs, diagrams, x-rays, and gross views depict the clinical manifestations of various cancers. This edition covers the latest advances in clinical oncology, including chemotherapy, surgical oncology, and diagnostic techniques. With contributions from 65 veterinary oncology experts, this authoritative reference is a must-have for current, evidence-based therapeutic strategies on canine and feline oncology. "I really love this book. If you are interested in veterinary oncology, have a flick through this book online or at a conference when you get the chance. I hope that you agree with me that this is the definitive oncology reference source for the early 21st century and that you feel compelled to buy it. Your patients will thank you for it." Reviewed by: Gerry Polton MA VetMB MSc(Clin Onc) DipECVIM-CA(Onc) MRCVS, UK Date: July 2014 Cutting-edge information on the complications of cancer, pain management, and the latest treatment modalities prepares you to diagnose and treat pets with cancer rather than refer cases to a specialist. A consistent format for chapters on body system tumors includes coverage of incidence and risk factors, pathology, natural behavior of tumors, history and clinical signs, diagnostic techniques and workup, treatment options, and prognosis for specific malignancies. A systems approach to the diagnosis and management of cancer facilitates access to information about the many malignancies affecting small animal patients. Nearly 500 color images provide accurate depictions of specific diseases and procedures. Helpful drug formularies provide quick access to information on indications, toxicities, and recommended dosages for chemotherapeutic and analgesic drugs used in cancer treatment. Expert contributors provide in-depth coverage of the most current information in his or her respective specialty in veterinary oncology. Chemotherapy protocols are included when case studies prove clinical efficacy. Discussion of compassion and supportive care for the management of pain, nutritional needs, and grief includes methods for handling the pet's pain and nutritional complications as well as the pet owner's grief when treatment is not successful. Thoroughly UPDATED chapters cover the most recent changes in the clinical management of melanoma, mast cell tumors, tumors of the skeletal system, tumors of the endocrine system, tumors of the mammary gland, urinary cancers, nervous system cancers, lymphoma, and histiocytic diseases. NEW Clinical Trials and Developmental Therapeutics chapter discusses the various phases of clinical trials as well as current challenges and opportunities in oncology drug development. NEW! A focus on the best recommended treatment options highlights therapeutic strategies that have been vetted by veterinary oncology experts. NEW co-author Dr. Rodney L. Page adds his valuable perspective, expertise, and research experience.

Medical Management of Wildlife Species

The welfare of laboratory animals, as well as the ethical issues involved in the humane use of animals for scientific purposes, are discussed in this new revised edition. Information is included on the biology and husbandry of animal models; on behavior, stress and well-being; genetic and microbiological standardization; health monitoring; anaesthesiology; animal alternatives; ethics. This book addresses all of the aspects that scientists need to know when considering the design of an animal experiment. Replacement, reduction and refinement of animal experiments are the guiding principles for its contents.

So, You Want to Work with Animals?

An essential introduction to microbiome science, a new cutting-edge discipline that is transforming the life sciences This book provides an accessible and authoritative guide to the fundamental principles of microbiome science, an exciting and fast-emerging new discipline that is reshaping many aspects of the life sciences. Resident microbes in healthy animals—including humans—can dictate many traits of the animal host. This animal microbiome is a second immune system conferring protection against pathogens; it can structure host metabolism in animals as diverse as reef corals and hibernating mammals; and it may influence animal behavior, from social recognition to emotional states. These microbial partners can also drive ecologically important traits, from thermal tolerance to diet, and have contributed to animal diversification over long evolutionary timescales. Drawing on concepts and data across a broad range of disciplines and systems, Angela Douglas provides a conceptual framework for understanding these animal-microbe interactions while shedding critical light on the scientific challenges that lie ahead. Douglas explains why microbiome science demands creative and interdisciplinary thinking—the capacity to combine microbiology with animal physiology, ecological theory with immunology, and evolutionary perspectives with metabolic science. An essential introduction to a cutting-edge field that is revolutionizing the life sciences, this book explains why microbiome science presents a more complete picture of the biology of humans and other animals, and how it can deliver novel therapies for many medical conditions and new strategies for pest control.

Introduction to Animal and Veterinary Anatomy and Physiology, 4th Edition

A fascinating and entertaining tour of motherhood in the animal kingdom that reveals a new perspective on the mother/child relationship. Being a mom is a tough job—but imagine doing it in the jungle or out on the safari, faced by the ravages of the elements, a scarcity of resources and the threat of predators prowling at all times of the day and night. In *Wild Moms*, Dr. Carin Bondar takes readers on an enthralling tour of the animal kingdom as she explores the phenomenon of motherhood in the wild. A journey through motherhood for the animal kingdom—from the initial phases of gestation and pregnancy through breastfeeding and toddler-rearing and trying to parent a teenager through empty nest syndrome (which, in many of these cases, is quite literal!) to being a grandmother. In *Wild Moms*, Dr. Bondar answers a whole host of questions about

the animal kingdom: How do moms in the animal kingdom cope with crying babies and potty training? How does breastfeeding work in the wild—particularly when a mother is nursing not one baby at a time, but a whole litter? If children with disabilities do not fit into Darwin's theory of evolution (i.e. Survival of the fittest), then why do we see mothers from various mammalian groups providing ongoing care to disabled offspring? Accessible and entertaining, *Wild Moms* is a celebration of moms everywhere—and a book guaranteed to make readers think about motherhood in an entirely new way.

Fundamentals of Microbiome Science

Now in full color, this concise reference helps you care for common small mammals with coverage of preventive medicine as well as disease management and husbandry. Content not found in other resources includes chapters on ophthalmology, dentistry, and zoonosis. More than 400 images demonstrate key concepts related to radiographic interpretation, relevant anatomy, and diagnostic, surgical, and therapeutic techniques. This is an invaluable reference for veterinarians, technicians, students, research scientists, pet store owners, pet owners, and breeders --Book Jacket.

Fowler's Zoo and Wild Animal Medicine, Volume 8 - E-Book

Animal Behavior, Second Edition, covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation. The authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors to this textbook, much of that teaching animal behavior. An entire chapter is devoted to the vibrant new field of behavior and conservation, including topics such as social behavior and the relationship between parasites, pathogens, and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning. This text addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking questions. Additionally, special terms and definitions are highlighted throughout. *Animal Behavior* provides a rich resource for students (and professors) from a wide range of life science disciplines. Provides a rich resource for students and professors from a wide range of life science disciplines Updated and revised chapters, with at least 50% new case studies and the addition of contemporary in-text examples Expanded and updated coverage of animal welfare topics Includes behavior and homeostatic mechanisms, behavior and conservation, and behavioral aspects of disease Available lab manual with fully developed and tested laboratory exercises Companion website includes newly developed slide sets/templates (PowerPoints) coordinated with the book

Animal Biology and Care

Following the success of the first edition, this new edition has been expanded to include more information on small mammals, birds and fish. Intended as a foundation text for those on animal care, nurse auxiliary and veterinary care assistant courses, it introduces essential theoretical background information and

clearly outlines the practical skills necessary when embarking on the care of any animal. Designed specifically to meet the requirements of animal care, pre-veterinary nursing auxiliary and care students; Provides basic training in animal biology and care, with particular attention given to those subjects that students find difficult to understand, such as anatomy and physiology; New chapter additions on fish and birds. Clearly and simply laid out, with over 150 illustrations, Animal Biology and Care 2e will be invaluable to all those training or working in animal care.

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research

The Biology of the Guinea Pig focuses on the use of the guinea pig as a substrate in research. This book provides a comprehensive coverage of material related to applied care and management of guinea pigs and their diseases. Topics on guinea pig behavior, genetics, specific pathogen-free technique, bi methodology, and colony husbandry are also covered. This text likewise deals with the noninduced diseases of guinea pigs and use of the guinea pig in nutrition research, otologic research, toxicology, and teratology. This publication is beneficial to the general scientific community that includes investigators using or considering the use of guinea pigs in research, veterinarians, students of veterinary medicine, professionals concerned with the care and management of guinea pigs, commercial producers of guinea pigs, and cavy fanciers.

Laboratory Hamsters

AAP Prose Award Finalist 2018/19 Management of Animal Care and Use Programs in Research, Education, and Testing, Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program - Provides a new section on Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes, including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry. Biomedical research using animals requires administrators and managers who are knowledgeable and

highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies Co-publishers on the second edition are: ACLAM (American College of Laboratory Animal Medicine); ECLAM (European College of Laboratory Animal Medicine); IACLAM (International Colleges of Laboratory Animal Medicine); JCLAM (Japanese College of Laboratory Animal Medicine); KCLAM (Korean College of Laboratory Animal Medicine); CALAS (Canadian Association of Laboratory Animal Medicine); LAMA (Laboratory Animal Management Association); and IAT (Institute of Animal Technology).

Use of Laboratory Animals in Biomedical and Behavioral Research

Following the success of the first edition, this new edition has been expanded to include more information on small mammals, birds and fish. Intended as a foundation text for those on animal care, nurse auxiliary and veterinary care assistant courses, it introduces essential theoretical background information and clearly outlines the practical skills necessary when embarking on the care of any animal. Designed specifically to meet the requirements of animal care, pre-veterinary nursing auxiliary and care students; Provides basic training in animal biology and care, with particular attention given to those subjects that students find difficult to understand, such as anatomy and physiology; New chapter additions on fish and birds. Clearly and simply laid out, with over 150 illustrations, Animal Biology and Care 2e will be invaluable to all those training or working in animal care.

Instant Notes Animal Biology

People, as Aristotle said, are political animals. Mainstream political philosophy, however, has largely neglected humankind's animal nature as beings who are naturally equipped, and inclined, to reason and work together, create social bonds and care for their young. Stephen Clark, grounded in biological analysis and traditional ethics, probes into areas ignored in mainstream political theory and argues for the significance of social bonds which bypass or transcend state authority. Understanding the ties that bind us reveals how enormously capable we are in achieving civil order as a species. Stephen Clark advocates that a properly informed political philosophy must take into account the role of women, children, animals, minorities and the domestic virtues at large. Living and conducting our political lives like the animals we are is a more congenial prospect than is usually supposed.

Occupational Health and Safety in the Care and Use of Research Animals

Much has been written about the care of research animals. Yet little guidance has appeared on protecting the health and safety of the people who care for or use

these animals. This book, an implementation handbook and companion to Guide For the Care and Use of Laboratory Animals, identifies principles for building a program and discusses the accountability of institutional leaders, managers, and employees for a program's success. It provides a detailed description of risks--physical and chemical hazards, allergens and zoonoses, and hazards from experiments--which will serve as a continuing reference for the laboratory. The book offers specific recommendations for controlling risk through administrative procedures, facility design, engineering controls, and periodic evaluations. The volume focuses on the worker, with detailed discussions of work practices, the use of personal protective gear, and the development of an emergency response plan. This handbook will be invaluable to administrators, researchers, and employees in any animal research facility. It will also be of interest to personnel in zoos, animal shelters, and veterinary facilities.

The Zebrafish in Biomedical Research

Animal Behavior

Logically organized by taxonomic groups, this up-to-date text covers the diagnosis and treatment of all zoo animal species and free-ranging wildlife, including amphibians, reptiles, birds, mammals, and fish, unlikely to be seen by private practice veterinarians. Featuring full-color images, the consistent, user-friendly format supplies information on each animal's biology, unique anatomy, special physiology, reproduction, restraint and handling, housing requirements, nutrition and feeding, surgery and anesthesia, diagnostics, therapeutics, and diseases. Global authorship includes multinational contributors who offer expert information on different species from around the world. "Veterinary care of non-traditional species is a rapidly progressing field and this title is the much awaited updated version of this zoo and wildlife practitioner's 'bible'. Reviewed by: Charlotte Day on behalf of The Veterinary Record, Oct 14 Global authorship includes internationally recognized authors who have contributed new chapters focusing on the latest research and clinical management of captive and free-ranging wild animals from around the world. Zoological Information Management System chapter offers the latest update on this brand new system that contains a worldwide wealth of information. General taxonomy-based format provides a comprehensive text for sharing information in zoo and wildlife medicine. Concise tables provide quick reference to key points in the references. NEW! All new authors have completely revised the content to provide fresh perspectives from leading experts in the field on the latest advances in zoo and wild animal medicine. NEW! Color images vividly depict external clinical signs for more accurate recognition and diagnosis.

Animal Sciences

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been revised by a committee of experts, based on input from scientists and the public. The Guide incorporates recent research on commonly used species, including farm animals, and includes extensive references. It is organized around major components of animal use: Institutional policies and

responsibilities. The committee discusses areas that require policy attention: the role and function of the Institutional Animal Care and Use Committee, protocols for animal care and use, occupational health and safety, personnel qualifications, and other areas. Animal environment, husbandry, and management. The committee offers guidelines on how to design and run a management program, addressing environment, nutrition, sanitation, behavioral and social issues, genetics, nomenclature, and more. Veterinary care. The committee discusses animal procurement and transportation, disease and preventive medicine, and surgery. The Guide addresses pain recognition and relief and issues surrounding euthanasia. Physical plant. The committee identifies design and construction issues, providing guidelines for animal-room doors, drainage, noise control, surgery, and other areas. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities--a resource of proven value, now updated and expanded. This revision will be important to researchers, animal care technicians, facilities managers, administrators at research institutions, policymakers involved in research issues, and animal welfare advocates.

Wild Moms: Motherhood in the Animal Kingdom

Animal Agriculture: Sustainability, Challenges and Innovations discusses the land-based production of high-quality protein by livestock and poultry and how it plays an important role in improving human nutrition, growth and health. With exponential growth of the global population and marked rises in meat consumption per capita, demands for animal-source protein are expected to increase 72% between 2013 and 2050. This raises concerns about the sustainability and environmental impacts of animal agriculture. An attractive solution to meeting increasing needs for animal products and mitigating undesirable effects of agricultural practices is to enhance the efficiency of animal growth, reproduction, and lactation. Currently, there is no resource that offers specific knowledge of both animal science and technology, including biotechnology for the sustainability of animal agriculture for the expanding global demand of food in the face of diminishing resources. This book fills that gap, giving readers all the necessary information on important issues facing modern animal agriculture, namely its sustainability, challenges and innovative solutions. Integrates new knowledge in animal breeding, biotechnology, nutrition, reproduction and management Addresses the urgent issue of sustainability in modern animal agriculture Provides practical solutions on how to solve the current and future problems that face animal agriculture worldwide

The Political Animal

This book represents the most comprehensive publication of its type on nonhuman primates. It also provides basic information on the biology and management of primates for anyone responsible for the care and use of these animals. A related book on primate diseases will be published in 1996. Stresses the following major topics: Biology and medical management Reproductive physiology and breeding Nutrition Biohazards

Introduction to Veterinary Anatomy and Physiology Revision Aid

Animal Eyes provides a comparative account of all known types of eye in the animal kingdom, outlining their structure and function with an emphasis on the nature of the optical systems and the physical principles involved in image formation. A universal theme throughout the book is the evolution and taxonomic distribution of each type of eye, and the roles of different eye types in the behaviour and ecology of the animals that possess them. In comparing the specific capabilities of eyes, it considers the factors that lead to good resolution of detail and the ability to function under a wide range of light conditions. This new edition is fully updated throughout, incorporating more than a decade of new discoveries and research.

Pathology of Wildlife and Zoo Animals

Scientific experiments using animals have contributed significantly to the improvement of human health. Animal experiments were crucial to the conquest of polio, for example, and they will undoubtedly be one of the keystones in AIDS research. However, some persons believe that the cost to the animals is often high. Authored by a committee of experts from various fields, this book discusses the benefits that have resulted from animal research, the scope of animal research today, the concerns of advocates of animal welfare, and the prospects for finding alternatives to animal use. The authors conclude with specific recommendations for more consistent government action.

[ROMANCE](#) [ACTION & ADVENTURE](#) [MYSTERY & THRILLER](#) [BIOGRAPHIES & HISTORY](#) [CHILDREN'S](#) [YOUNG ADULT](#) [FANTASY](#) [HISTORICAL FICTION](#) [HORROR](#) [LITERARY FICTION](#) [NON-FICTION](#) [SCIENCE FICTION](#)