# what scientist studies animals

What Scientist Studies Animals: Exploring the World of Zoology and Beyond

what scientist studies animals is a question that often sparks curiosity among students, nature enthusiasts, and anyone fascinated by the diverse creatures that inhabit our planet. The answer, while seemingly straightforward, opens up a fascinating realm of scientific disciplines dedicated to understanding animal life in all its forms. From the tiniest insects to the largest mammals, scientists who study animals play a crucial role in unraveling the mysteries of behavior, biology, ecology, and evolution. Let's dive into the world of these experts and discover who they are, what they do, and why their work matters.

#### Who Is the Scientist That Studies Animals?

At the heart of animal study lies the field of zoology. A scientist who studies animals is typically called a zoologist. Zoologists specialize in the biology of animals, examining their physiology, structure, genetics, behavior, and interactions with their environment. However, the study of animals is a broad and diverse field, which means many other specialized scientists also focus on specific aspects of animal life.

#### The Role of Zoologists

Zoologists observe animals in their natural habitats or in laboratories to gather data on their habits and characteristics. They might study migration patterns of birds, the social dynamics of primates, or the reproductive behaviors of marine life. Their work contributes to conservation efforts, medicine, wildlife management, and even understanding human health through comparative biology.

# **Beyond Zoology: Other Scientists Who Study Animals**

While zoologists are the primary scientists studying animals, other experts also contribute significantly:

- \*\*Ethologists\*\* focus on animal behavior, exploring how animals interact with each other and their surroundings.
- \*\*Marine Biologists\*\* specialize in animals living in oceans and freshwater environments.
- \*\*Entomologists\*\* study insects, one of the most diverse groups of animals.
- \*\*Ornithologists\*\* dedicate their research to birds.
- \*\*Herpetologists\*\* focus on reptiles and amphibians.
- \*\*Wildlife Biologists\*\* often work on conservation and habitat management.

Each of these specialists brings unique perspectives and techniques to the broader understanding of animal life.

# The Scope of Animal Study: What Do These Scientists Do?

Understanding what scientist studies animals involves looking at the variety of tasks and research areas these professionals engage in. Their work is not confined to simply observing animals; it encompasses a range of activities from fieldwork to laboratory experiments, and from data analysis to policy advising.

#### Field Research and Observation

Many animal scientists spend a significant amount of time outdoors, tracking animals in their natural environments. This hands-on approach allows them to gather invaluable data on how animals live, feed, reproduce, and migrate. For example, tracking devices attached to marine mammals reveal migration routes and diving behaviors, while camera traps help document elusive wildlife in dense forests.

#### **Laboratory Studies and Genetic Research**

In addition to fieldwork, animal scientists often conduct laboratory studies to delve into the genetic makeup and physiological processes of animals. Advances in molecular biology have enabled researchers to explore animal genomes, helping to understand evolutionary relationships and genetic diseases. Such studies also contribute to improving veterinary medicine and developing conservation strategies.

# **Conservation and Wildlife Management**

Scientists studying animals play a vital role in conservation efforts. By understanding the needs and threats facing different species, they inform policies and actions that protect endangered animals and preserve biodiversity. Wildlife biologists might work with governments and NGOs to design protected areas, manage invasive species, or restore habitats.

# Why Is the Study of Animals Important?

The work of scientists who study animals extends far beyond academic interest; it has profound implications for ecosystems, human health, and our understanding of life itself.

#### **Maintaining Ecosystem Balance**

Animals are integral components of ecosystems, maintaining balance through their roles as predators, prey, pollinators, and decomposers. Studying animals helps us grasp how ecosystems

function and respond to changes such as climate shifts or habitat destruction. This knowledge is crucial for sustaining healthy environments.

## **Advancing Medical and Scientific Knowledge**

Animals often serve as models in medical research, offering insights into human diseases and treatments. For instance, studying the immune systems of various species has led to breakthroughs in vaccines and therapies. Additionally, understanding animal behavior and cognition can shed light on the evolution of intelligence and social structures.

#### **Fostering Conservation Awareness**

By bringing attention to the lives and challenges of animals, scientists inspire public interest and support for conservation. Educational programs and documentaries often rely on research conducted by animal experts to tell compelling stories that advocate for wildlife protection.

## Paths to Becoming a Scientist Who Studies Animals

If you're wondering how to become the scientist that studies animals, it helps to know the educational and career paths involved. Typically, a strong foundation in biology and related sciences is essential.

## **Educational Background**

Most scientists in this field hold at least a bachelor's degree in biology, zoology, ecology, or environmental science. For more specialized or advanced research roles, a master's degree or PhD is often required. Coursework generally includes animal biology, genetics, ecology, statistics, and sometimes specialized subjects like marine biology or entomology.

#### **Gaining Practical Experience**

Hands-on experience is invaluable. Internships, volunteering, and fieldwork provide practical skills and networking opportunities. Many aspiring animal scientists participate in research projects or work with wildlife conservation organizations to deepen their understanding.

#### **Career Opportunities**

Animal scientists find careers in academia, government agencies, wildlife organizations, zoos, aquariums, and environmental consulting firms. Some also work in education, outreach, or science communication, sharing their passion and knowledge with the public.

# **Challenges and Rewards in Studying Animals**

Like any scientific discipline, studying animals comes with its unique set of challenges and rewards.

#### **Challenges**

- \*\*Fieldwork Difficulties:\*\* Working in remote or harsh environments can be physically demanding and unpredictable.
- \*\*Funding and Resources:\*\* Research projects often rely on grants, which can be competitive and limited.
- \*\*Ethical Considerations:\*\* Ensuring the welfare of animals during research requires careful planning and adherence to ethical standards.

#### Rewards

- \*\*Discovering New Species:\*\* The thrill of finding previously unknown animals or behaviors is unmatched.
- \*\*Making a Difference:\*\* Contributing to conservation and environmental protection provides a strong sense of purpose.
- \*\*Lifelong Learning:\*\* The diversity of animal life ensures continual learning and exploration.

The scientists who study animals are driven by curiosity and a deep respect for life, making their work both meaningful and inspiring.

Exploring the question of what scientist studies animals reveals a vibrant field full of dedicated professionals committed to unveiling the secrets of the natural world. Whether through observing a bird's song at dawn or analyzing DNA in a lab, these scientists help us better understand and protect the incredible diversity of life that shares our planet.

# **Frequently Asked Questions**

## What is the term for a scientist who studies animals?

A scientist who studies animals is called a zoologist.

#### What do zoologists study?

Zoologists study the behavior, physiology, classification, and distribution of animals.

#### Are all scientists who study animals called zoologists?

While many scientists who study animals are zoologists, others may specialize further, such as entomologists who study insects or marine biologists who study marine animals.

# What kind of education is needed to become a scientist who studies animals?

Typically, a bachelor's degree in biology or zoology is required, followed by advanced degrees like a master's or PhD for specialized research positions.

#### What tools do animal scientists use in their research?

Animal scientists use tools such as binoculars, tracking devices, cameras, laboratory equipment, and sometimes genetic analysis tools to study animals.

#### How do animal scientists contribute to conservation efforts?

Animal scientists provide critical data on animal populations, behaviors, and habitats, helping to develop strategies for species conservation and ecosystem management.

#### Additional Resources

What Scientist Studies Animals: Exploring the World of Zoologists and Beyond

what scientist studies animals is a question that often arises when curiosity about the natural world leads to an interest in understanding animal life. The straightforward answer is that zoologists are primarily responsible for studying animals, but the field is much broader, encompassing various scientific disciplines and specialties. From ethologists who analyze animal behavior to marine biologists who investigate oceanic creatures, the study of animals is a diverse and complex domain. This article delves into the professionals who dedicate their careers to studying animals, their methodologies, the significance of their work, and how their expertise contributes to science and society.

# **Understanding the Scientist Who Studies Animals: Zoologists and Their Role**

Zoologists are scientists who focus on the biology, physiology, genetics, and ecology of animals. They observe animals in natural habitats and controlled environments, conduct experiments, and analyze data to uncover insights into animal life. Their research can cover a wide range of species, from microscopic insects to large mammals, and extend into both terrestrial and aquatic ecosystems.

The role of a zoologist can vary significantly depending on their specialization. For example, some zoologists focus on taxonomy and classification, helping to identify and categorize new species, while others work on conservation biology, aiming to preserve endangered populations. The scientific study of animals is not limited to zoology, however, as multiple intersecting disciplines contribute to a comprehensive understanding of animal life.

# **Ethologists: Specialists in Animal Behavior**

Ethology is a branch of zoology that emphasizes the study of animal behavior in natural settings. Ethologists seek to understand how animals interact with each other and their environments, what drives their behaviors, and how these behaviors have evolved. This subfield gained prominence through the work of scientists like Konrad Lorenz and Nikolaas Tinbergen, who laid the foundation for modern behavioral studies.

Ethologists often employ observational studies, sometimes supported by video recordings and controlled experiments, to analyze communication, mating rituals, social structures, and survival strategies. Their findings have profound implications for fields like psychology, ecology, and wildlife management.

#### **Marine Biologists: Exploring Aquatic Animal Life**

Marine biology is another specialized area of animal study that focuses on organisms inhabiting oceans, seas, and other saltwater environments. Marine biologists study marine mammals, fish, invertebrates, and even microscopic plankton. Their work is critical for understanding marine ecosystems, which play a vital role in the planet's overall health and climate regulation.

Marine biologists face unique challenges, such as conducting research underwater using scuba diving or remotely operated vehicles (ROVs). Their studies often inform policies on fisheries, marine conservation, and pollution control, highlighting the practical importance of studying animals in aquatic environments.

# **Related Disciplines and Roles in Animal Studies**

While zoology and its subfields are central, other scientific disciplines also contribute significantly to the study of animals. These include:

- **Veterinarians:** Although primarily focused on animal health and treatment, veterinarians possess extensive knowledge of animal anatomy and physiology, often contributing valuable insights into animal biology.
- **Wildlife Biologists:** These scientists focus on animals in the wild and their interactions with ecosystems. Their work often intersects with conservation efforts and habitat management.
- **Ecologists:** Ecologists study the relationships between animals and their environments, analyzing how animal populations impact and are affected by ecological factors.
- **Conservation Scientists:** Their efforts are geared toward protecting animal species and habitats, frequently working with governmental and non-governmental organizations to promote biodiversity.
- Comparative Anatomists: These scientists compare the anatomy of different animal species

# **Interdisciplinary Collaborations**

Modern animal science often involves interdisciplinary collaboration. For instance, geneticists may work alongside zoologists to study animal DNA and hereditary traits, while computer scientists develop algorithms for tracking animal movements or modeling ecosystems. Such cooperation enhances the depth and applicability of animal research.

# Methods and Tools Used by Scientists Who Study Animals

The study of animals employs a diverse array of scientific methods and tools, tailored to the specific focus of each researcher. Some widely used approaches include:

- Field Observation: Direct observation in natural habitats remains a cornerstone for understanding animal behavior and ecology. Researchers use binoculars, camera traps, and drones to monitor animals discreetly.
- 2. **Laboratory Analysis:** In controlled settings, experiments involving physiology, genetics, or neurobiology allow scientists to study animals at a cellular or molecular level.
- 3. **Telemetry and Tracking:** GPS collars, radio transmitters, and satellite tags help track animal movements over time, providing data on migration, territory, and population dynamics.
- 4. **Imaging Technologies:** Ultrasound, MRI, and CT scans are increasingly used to study anatomy and health without invasive procedures.
- 5. **Data Modeling and Simulation:** Computational tools analyze complex datasets, predict animal population trends, and model interactions within ecosystems.

These techniques enable scientists to gather empirical evidence, essential for advancing knowledge and informing conservation strategies.

#### **Challenges Faced by Scientists Studying Animals**

Studying animals is inherently challenging due to factors like animal mobility, elusive behaviors, and environmental variability. Ethical concerns also shape research methodologies, requiring adherence to guidelines that ensure animal welfare. Moreover, funding constraints and limited access to remote or endangered species can hinder scientific progress.

Despite these obstacles, advances in technology and international collaboration are helping scientists overcome barriers, leading to a deeper understanding of animal life.

# The Importance of Scientists Who Study Animals

The work of scientists who study animals is crucial for multiple reasons. They contribute to biodiversity preservation, which is essential for ecosystem stability and human well-being. Their research informs wildlife management, helping mitigate human-wildlife conflicts and promoting sustainable coexistence.

Moreover, studying animals offers insights into evolutionary biology and genetics, often providing models for medical research. Understanding animal behavior can also improve animal welfare practices in agriculture, zoos, and conservation programs.

In the context of global environmental challenges such as climate change and habitat destruction, the role of animal scientists becomes even more critical. Their expertise helps predict and manage the impacts of these changes on animal populations, guiding policy and conservation efforts worldwide.

The landscape of scientists who study animals is broad and dynamic, reflecting the complexity of animal life itself. Whether through the lens of zoology, ethology, marine biology, or interdisciplinary research, these professionals offer indispensable knowledge that enriches science and supports the sustainable future of our planet's fauna.

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gender-balanced curriculum choices for science education, and theoretical conversations around cultivating critical thinking skills and ethical dispositions. The diverse authors in this book take on the logic of domination and symbolic violence embodied within the scientific enterprise that has systematically subjugated animals and nature, and emboldened the anthropocentric and exploitative expressions for the future role of animals. At a time when animals are getting excluded from classrooms (too dangerous! too many allergies! too dirty!), this book is an important counterpoint. Interacting with animals helps students develop empathy, learn to care for living things, engage with content. We need more animals in the science curriculum, not less. David Sobel, Senior Faculty, Education Department, Antioch University New England

what scientist studies animals: Critical Role of Animal Science Research in Food Security and Sustainability National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

what scientist studies animals: National Symposium on Imperatives in Research Animal Use, Scientific Needs and Animal Welfare, 1985

what scientist studies animals: What Scientists Think Jeremy Stangroom, 2005-09-22 What are scientists working on today? What do they worry about? What do they think about the working of the brain, climate change, animal experimentation, cancer, and mental illness? Is science progressing or in retreat? Is this century humankind's last? These are just some of the compelling and provocative questions tackled here by twelve of the world's leading scientists and scientific thinkers. In engaging and lucid discussion, they clarify many of the most urgent scientific challenges and dilemmas facing science today. Essential reading for anyone interested in popular science, What Scientists Think is edited and written by Jeremy Stangroom of the highly successful The Philosopher's Magazine and includes a foreword by Marek Kohn, author of A Reason for Everything: Natural Selection and the British Imagination.

what scientist studies animals: Management of Animal Care and Use Programs in Research, Education, and Testing Robert H. Weichbrod, Gail A. (Heidbrink) Thompson, John N. Norton, 2017-09-07 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).

what scientist studies animals: Practical Management of Research Animal Care and Use Programs Javier Guillén, Viola Galligioni, 2024-11-06 This book provides a complete guide to all the aspects to consider during planning, establishing and managing ethically and efficiently research animal care and use programs, taking into account all stakeholders involved in the process. Practical information on how to address the general and particular needs of all animal care and use program areas is provided. Consequently, the reader is supported with getting their project ethically and legally compliant, and implemented efficiently with organizing safe and appropriate facilities and equipment as well as hiring sufficiently trained personnel. Furthermore, strategies for impactful internal and external communication are outlined. Responsible use of animals in research can be nothing but teamwork. The environment and professional experience of all involved stakeholders are the key for ensuring quality science, as well as animal and personnel welfare. Research animal care and use programs represent a complex system in which animals, legislation and good practices, facility personnel and researchers interact on a daily basis. Thoughtful planning from the first step ensures animal welfare and improves the quality of in vivo experimentation. This book addresses animal program managers, veterinarians, researchers and technicians working in research animal facilities. Chapter 18 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

what scientist studies animals: Biomaterials Science Buddy D. Ratner, 1996 Materials science and engineering; Properties of materials; Classes of materials used in medicine; Biology, biochemistry, and medicine; Host reactions to biomaterials and their evaluation; Testing biomaterials; Degradation of materials in the biological environment; Application of materials in medicine and dentistry; Practical aspects of biomaterials; Implants and devices; New products and standards.

what scientist studies animals: Exemplary Science In Informal Education Settings:Standards-Based Success Stories Robert E. Yager, 2007-10-04 Just as science education doesn't stop at the schoolhouse door, neither should effective application of the National Science Education Standards. Exemplary Science in Informal Education Settings shows real-world examples of how science education reform has taken hold in museums, science centers, zoos, and aquariums as well as on television, radio, and the internet. This essay collection--the fifth volume in the Exemplary Science Monograph Series--features 17 informal education programs that were judged to be most successful at increasing participants' learning. The programs demonstrate how the Standards can be used to inform and improve science education in a wide range of settings and with learners ranging from pre-schoolers to older adults.

what scientist studies animals: Critical Needs for Research in Veterinary Science
National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural
Resources, Committee on the National Needs for Research in Veterinary Science, 2005-11-18
Research in veterinary science is critical for the health and well-being of animals, including humans.
Food safety, emerging infectious diseases, the development of new therapies, and the possibility of
bioterrorism are examples of issues addressed by veterinary science that have an impact on both
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research needs. The report finds that there is an urgent need to provide adequate resources for
investigators, training programs, and facilities involved in veterinary research.

what scientist studies animals: The Animal Ethics Reader Susan J. Armstrong, Richard G. Botzler, 2016-11-18 The Animal Ethics Reader is an acclaimed anthology containing both classic and contemporary readings, making it ideal for anyone coming to the subject for the first time. It provides a thorough introduction to the central topics, controversies and ethical dilemmas surrounding the treatment of animals, covering a wide range of contemporary issues, such as animal activism, genetic engineering, and environmental ethics. The extracts are arranged thematically under the following clear headings: Theories of Animal Ethics Nonhuman Animal Experiences Primates and Cetaceans Animals for Food Animal Experimentation Animals and Biotechnology Ethics and Wildlife Zoos and Aquariums Animal Companions Animal Law and Animal Activism Readings from leading experts in the field including Peter Singer, Bernard E. Rollin and Jane Goodall are featured, as well as selections from Tom Regan, Jane Goodall, Donald Griffin, Temple Grandin, Ben A. Minteer, Christine Korsgaard and Mark Rowlands. Classic extracts are well balanced with contemporary selections, helping to present the latest developments in the field. This revised and updated Third Edition includes 31 new readings on a range of subjects, including animal rights, captive chimpanzees, industrial farm animal production, genetic engineering, keeping cetaceans in captivity, animal cruelty, and animal activism. The Third Edition also is printed with a slightly larger page format and in an easier-to-read typeface. Featuring contextualizing introductions by the editors, study questions and further reading suggestions as the end of each chapter, this will be essential reading for any student taking a course in the subject. With a new foreword by Bernard E. Rollin.

what scientist studies animals: Animal Science Research Report , 1978
what scientist studies animals: Studies of the Present Teaching of Hygiene Through
"domestic Science" and Through "nature Study" American Academy of Medicine, 1906
what scientist studies animals: Proceedings of the American Association for the Advancement
of Science American Association for the Advancement of Science, 1898

what scientist studies animals: Science John Michels (Journalist), 1889 Since Jan. 1901 the official proceedings and most of the papers of the American Association for the Advancement of Science have been included in Science.

what scientist studies animals: <u>Technical Memorandum - Commonwealth Scientific and Industrial Research Organization, Division of Wildlife Research</u> Commonwealth Scientific and Industrial Research Organization (Australia). Division of Wildlife Research, 1969

what scientist studies animals: <u>Elements of Animal Physiology, Chiefly Human ...</u> John Angell (Government Science Teacher.), 1875

what scientist studies animals: Interpreting Research in Sport and Exercise Science Randy Hyllegard, Dale Mood, James R. Morrow (Jr.), 1996 Provides the reader with skills to interpret scientific articles and recognize appropriate formats for research studies. The text aims to provide two types of goals: knowledge goals, including understanding the principles of science; and skills goals, including constructing library research.

**what scientist studies animals:** Report of the Chief of the Bureau of Animal Industry, United States Department of Agriculture United States. Bureau of Animal Industry, 1889

what scientist studies animals: American Journal of Education and College Review, 1872 Vol. 25 is the report of the commissioner of education for 1880; v. 29, report for 1877.

what scientist studies animals: Laboratory Animal Medicine Margi Sirois, 2005 This combination text and lab manual provides clinically relevant coverage of laboratory animal medicine and procedures. It covers a variety of species, including rats, mice, guinea pigs, hamsters, rabbits, gerbils, ferrets, nonhuman primates, and in a separate chapter, nontraditional lab animals, such as swine, chinchillas, armadillos, reptiles, amphibians, bats, farm animals, and dogs and cats. Coverage of each species is presented in a consistent format that includes taxonomy, anatomy and physiology, uses in biomedical research, reproduction, behavior, husbandry, restraint and handling, identification methods, injection techniques, medication administration and anesthesia, blood collection, common diseases, and euthanasia. Other key topics include the laboratory setting, regulatory guidelines, and ethical considerations. The lab manual portion of the book features a variety of exercises and observation sheets. Comprehensive coverage of a variety of topics such as animal species, the laboratory setting, regulatory guidelines, and ethical considerations prepares readers for a career in laboratory animal medicine Familiarizes readers with the handling, behavior, nutrition, and lab and treatment procedures for a large variety of common and nontraditional laboratory animals The consistent organization of each species chapter makes it easy for readers to quickly identify similarities and differences among various laboratory animals Laboratory exercises are included in a perforated section at the end of the book, allowing users to apply their knowledge and develop job skills Features a wealth of user-friendly features such as a two-color design, learning objectives, key points, and review questions Provides detailed information on specific legal and ethical requirements of lab animal care and use, including the ethics of pain management Convenient boxes and tables provide quick access to important anatomic and physiologic data for each species Discusses specific uses of each species in biomedical research, providing readers with a perspective on animal use that allows them to explain the benefits of animal use as required by veterinary technology program accreditation procedures

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