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Field and Laboratory Exercises in Animal Behavior is an interactive laboratory manual for students in animal behavior, ethology, and behavioral ecology. It is the first of its kind in this subject area that guides students through the diverse and fascinating fields of behavioral and ethological studies, employing a wide array of organisms as model systems for the study of behavior. Students participate in the development of hypothesis and turn the recording, analysis, and interpretation of data into an active and engaging process. A teacher-friendly companion website provides extensive teaching notes on the background to each lab project, tips and hints for successful project presentation, sources for studying organisms, ideas for variations in labs, and alternate study organisms. This text is recommended for undergraduate courses in Animal Behavior, Ethology, and Behavioral Ecology. Provides fully developed and tested laboratory exercises Offers both field and lab experiences- adaptable for fall, spring, or summer courses Laboratories emphasize student thought and involvement in experimental design

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Includes an online supplement to the manual for teachers

This comprehensive volume looks at a range of topics covering the habits of a variety of animals, including how macaques teach their offspring, how rats transmit avoidance behavior, how supplementary feeding of tree frogs affects their breeding behavior, and more. Studies in animal behavior can have far-reaching implications for animals and humans alike—suggesting how humans can improve conservation efforts, how we can better protect animals both in the wild and in captivity, and what can be learned about humans from animals. Discover why animals do what they do, based on their genes, physiologies, cultures, traditions, survival and mating advantages, and evolutionary histories—and find out how studying behavior in the animal world helps us understand human behavior. • Provides readers with personal narratives from the researchers themselves, enabling rare insights into how researchers think and what drives their studies • Explains animal behavior on the animal's terms rather than anthropomorphizing its actions as is often done in the popular press and the media • Includes a comprehensive glossary of behavioral terms

This book introduces the reader to the power of observation before, and sometimes instead of, experimental manipulation in the study of animal

behaviour. It starts with simple and easily accessible methods suitable for student projects, before going on to demonstrate the possibilities that now exist for far more sophisticated analyses of observational data. At a time when animal welfare considerations are attracting political as well as scientific debate, the potential for non-intrusive studies on animals is being increasingly recognized. Observation emerges as a valuable alternative approach, often yielding highly informative results in situations (such as on zoos, farms or for wild animals) where more invasive experimental techniques would be undesirable, unethical or just plain impossible. However, to justify its place alongside experimentation as a rigorous scientific method, observation needs to be just as disciplined and systematic and have just as much attention paid to project design in the way that observations are made and recorded. Observing Animal Behaviour takes the reader through all these stages: from the initial observations, to the formulation of hypotheses, and their subsequent testing with further systematic observations. Although designed principally as a companion text for advanced undergraduate and students taking courses in animal behaviour, this accessible text will be essential reading for anyone wanting to study animal behaviour using observational methods rather than experimentation, and assumes no previous knowledge of animals, statistics or scientific

method. It will be of particular relevance and use to those professional researchers and consultants in the behavioural sciences who seek a compact but comprehensive introduction to the quantitative observation of animal behaviour.

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,

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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

Encyclopedia of Animal Behavior, Second Edition, the latest update since the 2010 release, builds upon the solid foundation established in the first edition. Updated sections include Host-parasite interactions, Vertebrate social behavior, and the introduction of 'overview essays' that boost the book's comprehensive detail. The structure for the work is modified to accommodate a better grouping of subjects. Some chapters have been reshuffled, with section headings combined or modified. Represents a one-stop resource for scientifically reliable information on animal behavior Provides comparative approaches, including the perspective of evolutionary biologists, physiologists, endocrinologists, neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

This book demonstrates that good science, animal care, and humane ethics are consonant and

complimentary. Many environmental and treatment-related variables that can adversely affect both the animal and the validity of research are detailed. Fox provides a critical review of present standards of laboratory animal husbandry and routine experimental procedures.

The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries. Using the *Biological Literature: A Practical Guide, Fourth Edition* is an annotated guide to selected resources in the biological sciences, presenting a wide-ranging list of important sources. This completely revised edition contains numerous new resources and descriptions of all entries including textbooks. The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature. It covers both print and electronic resources including monographs, journals, databases, indexes and abstracting tools, websites, and associations—providing users with listings of authoritative informational resources of both classical and recently published works. With chapters devoted to each of the main fields in the

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basic biological sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.

Social network analysis is used widely in the social sciences to study interactions among people, groups, and organizations, yet until now there has been no book that shows behavioral biologists how to apply it to their work on animal populations. *Exploring Animal Social Networks* provides a practical guide for researchers, undergraduates, and graduate students in ecology, evolutionary biology, animal behavior, and zoology. Existing methods for studying animal social structure focus either on one animal and its interactions or on the average properties of a whole population. This book enables researchers to probe animal social structure at all levels, from the individual to the population. No prior knowledge of network theory is assumed. The authors give a step-by-step introduction to the different procedures and offer ideas for designing studies, collecting data, and interpreting results. They examine some of today's most sophisticated statistical tools for social network analysis and show how they can be used to study social interactions in animals, including cetaceans, ungulates, primates, insects, and fish. Drawing from an array of techniques, the authors explore how network structures influence individual behavior and how this in turn influences, and is influenced by, behavior at the population level. Throughout, the authors use two

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software packages--UCINET and NETDRAW--to illustrate how these powerful analytical tools can be applied to different animal social organizations.

A major advancement in understanding the factors underlying wildlife–habitat relationships, *Applications for Advancing Animal Ecology* will be an invaluable resource to natural resource management professionals and practitioners, including state and federal agencies, non-governmental organizations, and environmental consultants.

The *Oxford Handbook of Undergraduate Psychology Education* provides psychology educators, administrators, and researchers with up-to-date advice on best teaching practices, course content, teaching methods and classroom management strategies, student advising, and professional and administrative issues.

Wildlife-Habitat Relationships goes beyond introductory wildlife biology texts to provide wildlife professionals and students with an understanding of the importance of habitat relationships in studying and managing wildlife. The book offers a unique synthesis and critical evaluation of data, methods, and studies, along with specific guidance on how to conduct rigorous studies. Now in its third edition, *Wildlife-Habitat Relationships* combines basic field zoology and natural history, evolutionary biology, ecological theory, and quantitative tools in explaining ecological processes and their influence on wildlife and habitats. Also included is a glossary of terms that every wildlife professional should know. Michael L. Morrison is professor and Caesar Kleberg Chair in Wildlife Ecology and Conservation in the Department of Wildlife and Fisheries Sciences at Texas A&M University in College Station. Bruce G. Marcot is wildlife ecologist with the USDA Forest Service in Portland, Oregon. R. William Mannan is professor of wildlife ecology at the University of Arizona in Tucson.

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Behavior is shaped by both genetics and experience--nature and nurture. This book synthesizes research from behavioral genetics and animal and veterinary science, bridging the gap between these fields. The objective is to show that principles of behavioral genetics have practical applications to agricultural and companion animals. The continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under-appreciated. Genetic factors play a significant role in both species-specific behaviors and behavioral differences exhibited by individuals in the same species. Leading authorities explore the impact of increased intensities of selection on domestic animal behavior. Rodents, cattle, pigs, sheep, horses, herding and guard dogs, and poultry are all included in these discussions of genetics and behavior, making this book useful to veterinarians, livestock producers, laboratory animal researchers and technicians, animal trainers and breeders, and any researcher interested in animal behavior. Includes four new chapters on dog and fox behavior, pig behavior, the effects of domestication and horse behavior Synthesizes research from behavioral genetics, animal science, and veterinary literature Broaches fields of behavior genetics and behavioral research Includes practical applications of principles discovered by behavioral genetics researchers Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats

With their large brains, elaborate sense organs and complex behaviour, cephalopods are among the world's most highly evolved invertebrates. This second edition summarises the wealth of exciting new research data stemming from over five hundred papers published since the first volume appeared. It adopts a comparative approach to causation, function, development and evolution as it explores cephalopod behaviour in natural habitats and the laboratory. Extensive

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colour and black-and-white photography illustrates various aspects of cephalopod behaviour to complement the scientific analysis. Covering the major octopus, squid and cuttlefish species, as well as the shelled Nautilus, this is an essential resource for undergraduate and advanced students of animal behaviour, as well as researchers new to cephalopods, in fields such as neuroscience and conservation biology. By highlighting the gaps in current knowledge, the text looks to inform and to stimulate further study of these enigmatic and beautiful animals.

What role do genes play in governing behaviour? This volume provides a general introduction to one of the most controversial topics in human biology.

Laboratory Animal Medicine, Third Edition, is a fully revised publication from the American College of Laboratory Medicine's acclaimed blue book series. It presents an up-to-date volume that offers the most thorough coverage of the biology, health, and care of laboratory animals. The book is organized by species, with new inclusions of chinchillas, birds, and program and employee management, and is written and edited by known experts in the fields. Users will find gold-standard guidance on the study of laboratory animal science, as well as valuable information that applies across all of the biological and biomedical sciences that work with animals. Organized by species for in-depth understanding of biology, health, and best care of animals Features the inclusion of chinchillas, quail, and zebra finches as animal models Offers guidance on program and employee management Covers regulations, policies, and laws for laboratory animal management worldwide

Humans have a natural interest in animals; through a long history of domestication, they have become tools, a food source and even friends. Behaviour is a significant indicator of animal health and well-being, and understanding this

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behaviour is therefore the key to good management.

Covering all aspects of animal behaviour and how this relates to welfare for companion animals, farm animals and farmed fish, this book reviews development, socialisation, locomotion, reproduction and more. It takes a comprehensive approach to the subject, including a section of chapters addressing common abnormal behaviours and reviewing some animals, such as rabbits, from both a pet and farm perspective. Now in its fifth edition, *Domestic Animal Behaviour and Welfare* includes new chapters detailing the welfare of sheep, goats and exotic pets, and welfare in relation to genetic selection and modification. Animal behaviour and welfare sciences are now core topics for agriculture and veterinary students, with courses and research opportunities in this field growing world-wide. Fully updated and with new photographs, this indispensable textbook provides a student-friendly guide to the major themes of animal behaviour and welfare.

Rev. ed. of: *Comparative cognition*. 2006.

Animal Behavior for Shelter Veterinarians and Staff presents and evaluates the available research and programs that address both animal and human behaviors associated with the intake, management and rehoming of dog and cats.

Introductions to dog and cat behavior relevant to any animal professional
Reviews behavioral reasons for the relinquishment of dogs and cats
Describes intake and assessment protocol, shelter design, training and enrichment programs that reduce stress and enhance behavioral well-being
Concepts to improve the adoption process and support the human-animal bond post-adoption

Comparative Cognition celebrates comparative cognitions first quarter century with a state-of-the-art collection of chapters covering the broad realm of the scientific study of animal intelligence. It will be an invaluable resource for

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students and professional researchers in all areas of psychology and neuroscience.

Clear guidelines on the proper care and use of laboratory animals are being sought by researchers and members of the many committees formed to oversee animal care at universities as well as the general public. This book provides a comprehensive overview of what we know about behavior, pain, and distress in laboratory animals. The volume explores: Stressors in the laboratory and the animal behaviors they cause, including in-depth discussions of the physiology of pain and distress and the animal's ecological relationship to the laboratory as an environment. A review of euthanasia of lab animals--exploring the decision, the methods, and the emotional effects on technicians. Also included is a highly practical, extensive listing, by species, of dosages and side effects of anesthetics, analgesics, and tranquilizers.

Perspectives on Animal Behavior introduces biologists and psychologists to the scientific reasoning and methodology in the field while also addressing development and mechanisms. Rather than just focusing on evolutionary behavior, the book presents a variety of different perspectives including genetics, neurological, learning, and behavioral ecology. The third edition walks them through experimentation and data analysis, which are critical in the field. It includes classical studies that form the foundation of this field but concentrates on more current work in order to present the thinking and experiments. Biologists and psychologists will then gain a modern understanding of animal behavior.

Designed to provide a variety of exercises that engage students actively in all phases of scientific investigation, from formulating research questions through interpreting and presenting final results. Suited to undergraduates, each

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chapter presents an animal behavior exercise tested by academic members of the Animal Behavior Society. Four types of exercises are presented: (1) traditional exercises in which students follow a pre-determined protocol to test particular hypotheses, (2) traditional exercises that can easily be adapted to inquiry-based approaches, (3) combined pedagogy exercises that involve both traditional and inquiry approaches, and (4) inquiry exercises in which students brainstorm to generate their own hypotheses, then design their own experiments to test them. Exercises cover descriptive ethology, causation and development of behavior, and behavioral ecology. Both field and laboratory exercises are included on arthropods, fish, amphibians, reptiles, birds, and mammals.

This book addresses theoretical and pragmatic issues concerning naturalistic environments in captivity for animals. The multidisciplinary orientation of the volume will help regulatory personnel, administrators, and researchers to understand each other's roles and responsibilities in the design, construction, and real-time operation of these facilities. The book also highlights the important value of naturalistic environments in captivity to the scientific study of animal behavior. The authors provide insights into identifying physical environmental features not in compliance with existing regulations, and that may have a negative impact on the physical health and psychological well-being of animals. In order to understand and manage animals in their natural or captive environments we must first understand why animals do what they do and recognize limitations in their ability to adapt to different environments. Drawing on the author's considerable experience in both teaching and research, this introductory-level textbook describes the basic principles underlying animal behavior and how

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those concepts can be used in managing the care of domestic and captive wild animals, covering four key themes: development of behavior, biological rhythms, social behavior and behavioral aspects of animal management. Extensively illustrated with many practical examples and over 150 photos and figures, the book will be essential reading for animal science and veterinary students.

Essential Animal Behavior provides a comprehensive introduction to all areas of the subject: from the genetic and neurobiological control of behavior to the learning, development, and function of behavior in an evolutionary context. Social behaviour is also covered throughout the text. Written in a concise and engaging style, this new book: includes examples from both marine and terrestrial environments around the world places current research alongside classic examples, and puts the study of animal behavior in an applied context, emphasizing the implications for animal welfare and animal conservation. Carefully designed to meet the needs of students coming to the subject for the first time, the book includes the following features: key concept boxes Focus on boxes chapter summaries guided reading to aid revision and further study case studies and boxed examples that reinforce essential points, and questions for discussion. This book is essential reading for degree-level students following modular programs in biology, zoology, marine biology, and psychology. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more

Function And Evolution Of Animal Behavior

John Alcocks Standardwerk Animal Behavior - jetzt in Form eines völlig neuen Lehrbuchtyps, der speziell für die Studiensituation im deutschsprachigen Raum konzipiert wurde.* Das erfolgreiche Lehrbuch Animal Behavior stellt die verschiedenen Aspekte tierischen Verhaltens in einen evolutionsbiologischen Rahmen. Es behandelt die grundlegenden Mechanismen des Verhaltens ebenso wie seine stammesgeschichtlichen Ursachen und betont die Bedeutung der Evolutionstheorie als einigendes Element der unterschiedlichen Teildisziplinen der Verhaltensbiologie. Wichtige Konzepte werden sowohl an Wirbellosen wie an Wirbeltieren verdeutlicht. Alcocks klarer und engagierter Schreibstil macht es auch Anfängern trotz der stark konzeptionellen Ausrichtung des Werkes leicht, den Stoff zu verstehen. Die nun vorliegende achte Auflage des Standardwerkes wurde völlig neu geschrieben. Zahlreiche Erkenntnisse aus jüngster Zeit haben darin Eingang gefunden. Verständnisfragen direkt an den entsprechenden Textstellen regen dazu an, sich mit dem gerade gelesenen Stoff auseinanderzusetzen. Die beiden Kapitel über die Einflüsse von Vererbung und Umwelt auf die Entwicklung wurden vereint, um zu verdeutlichen, dass Entwicklungsprozesse sowohl von genetischen als auch von Umweltfaktoren abhängen. Der Autor führt dem Leser immer wieder vor Augen, welche Rolle der Überprüfung von Theorien und Hypothesen zukommt und dass wissenschaftliche Schlussfolgerungen immer nur vorübergehend gültig sind. So werden in diesem Buch auch kontrovers

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diskutierte und bisher ungelöste Probleme angesprochen. * Von Studierenden der Biowissenschaften wird heute erwartet, dass sie im Laufe ihres Studiums englische Literatur problemlos lesen und verstehen und schließlich auch Forschungsergebnisse auf Englisch kommunizieren können. Den Weg dorthin bereitet der neu entwickelte Lehrbuchtyp Easy Reading - Das Original mit Übersetzungshilfen. So bietet die vorliegende Ausgabe von Animal Behavior in einem zusammen: den englischen Originaltext deutsche Übersetzungshilfen in der Randspalte deutschsprachige Verständnisfragen / Übungsaufgaben ein englisch-deutsches Glossar deutsch- und englischsprachige Kapitelzusammenfassungen und auf der Website www.elsevier.de/alcock: eine Übersicht über die im Buch erwähnten Arten (deutsch, englisch, lateinisch) Internetlinks für Deutschland, Österreich und die Schweiz Wesentlicher Zusatznutzen der "Easy Reading"-Ausgabe ist, das Lesen des englischen Grundtextes zu erleichtern und in die spezielle wissenschaftliche Terminologie einzuführen. Wer dieses Buch durcharbeitet, steigert somit seine fachliche und seine sprachliche Kompetenz zugleich. This new edition of Animal Behavior has been completely rewritten with coverage of much recent work in animal behavior, resulting in a thoroughly up-to-date text. Notable is the inclusion, for the first time, of discussion questions embedded in the text itself, rather than appended to the end of each chapter. This format is designed to encourage students to reflect on the material they have

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just digested while also making it easier for instructors to promote a problem-solving approach to the subject in their classes. Another key organizational improvement is the consolidation of what had been two separate chapters on the genetic and environmental influences on development. By combining this material, the new Chapter 3 makes a stronger, more tightly argued case for the view that development is a truly interactive process codependent on both genetic and environmental factors. Like previous editions, the book shows how evolutionary biologists analyze all aspects of behavior. It is distinguished by its balanced treatment of both the underlying mechanisms and evolutionary causes of behavior, and stresses the utility of evolutionary theory in unifying the different behavior

Studying Captive Animals outlines the methods that may be used to study the behaviour, welfare and ecology of animals living under the control of humans, including companion animals, feral populations, and those living on farms and in zoos. This book is a step-by-step guide to the whole process of conducting a scientific study: from designing the original project, formulating testable hypotheses, and collecting and analysing the data, to drawing conclusions from the work and writing it up as a scientific report or paper. It also illustrates how to write a formal research proposal - a crucial and often difficult element of the student project - and how to deal with the ethical review process. Sample data collection sheets are provided and the analysis and presentation of data are worked through in diagrammatic form. In addition, exercises are included that enable the reader to practice

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analysing different types of data and advice is provided on the selection of appropriate statistical tests. The text describes the different types of student projects that may be undertaken in the field, and explains where secondary data may be found for zoos. This is an insightful resource, particularly for those studying and working with zoo and farm animals. It is essential reading for students studying zoo biology and animal management; it is also suitable for students on courses in animal behaviour, animal welfare, zoology, biology, psychology, animal science, animal production, animal ecology, conservation biology, and veterinary science. This book is primarily intended for undergraduates but will also be of value to postgraduate students who have not previously engaged in field studies. Professionals working in institutions that are members of the World Association of Zoos and Aquariums, the European Association of Zoos and Aquaria and other regional and national zoo organisations will benefit from access to this practical guide.

Exploring Animal Behavior in Laboratory and Field, Second Edition provides a comprehensive manual on animal behavior lab activities. This new edition brings together basic research and methods, presenting applications and problem-solving techniques. It provides all the details to successfully run designed activities while also offering flexibility and ease in setup. The exercises in this volume address animal behavior at all levels, describing behavior, theory, application and communication. Each lab provides details on how to successfully run the activity while also offering flexibility

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to instructors. This is an important resource for students educators, researchers and practitioners who want to explore and study animal behavior. The field of animal behavior has changed dramatically in the past 15 - 20 years, including a greater use and availability of technology and statistical analysis. In addition, animal behavior has taken on a more applied role in the last decade, with a greater emphasis on conservation and applied behavior, hence the necessity for new resources on the topic. Offers an up-to-date representation of animal behavior Examines ethics and approvals for the study of vertebrate animals Includes contributions from a large field of expertise in the Animal Behavior Society Provides a flexible resource that can be used as a laboratory manual or in a flipped classroom setting Career Paths in Human-Animal Interaction for Social and Behavioral Scientists is an essential text for students and professionals wanting to pursue a career in human-animal interaction (HAI). It is exclusively designed to navigate this field and provide information on the best education, training, and background one might need to incorporate HAI into a successful career. Kogan and Erdman bring together a diverse range of insights from HAI social scientists who have secured or created their HAI job. The book highlights six categories of work settings: academia, private practice, corporations/for profit companies, non-profit organizations, government, and other positions, to show the growing number of opportunities to blend social science interests with the desire to incorporate HAI into their careers. The book clearly outlines the career paths available to social

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science students and professionals, from careers connected to human services of psychology, therapy, social work, and journalism, to research or other scholarship.

A volume in the American College of Laboratory Animal Medicine series, this second edition has over 40% new material, including the addition of six new topics and many others that are completely rewritten. The book comprehensively covers the biological and disease aspects of laboratory animal medicine while examining other aspects such as the biohazards associated with the use of animal experimentation and factors complicating the bioethics of animal research.

The Laboratory Rat, Second Edition features updated information on a variety of topics including: rat genetics and genomics, both spontaneous and induced disease; state-of-the-art technology for housing and husbandry; occupational health, and experimental models. A premier source of information on the laboratory rat that will be of interest to veterinary and medical students, senior graduate, graduate students, post-docs and researchers who utilize animals in biomedical research. At least 50% new information than first edition Includes topics on rat genetics and genomics, occupational health, and experimental models The premier source of information on the laboratory rat

Investigates differing attitudes to animals in science and society.

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Every 3rd issue is a quarterly cumulation.

Entries examine a broad array of different species and behavior patterns, using techniques that range from molecular approaches to the study of behavior to analyses of individuals, populations, species, and ecosystems.

Presents an introduction to the subject, suggestions on searching the Internet, and a bibliography of literature on animal nature, fatal and nonfatal uses, animal populations, and animal speculations.

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