

The Laboratory Rabbit Guinea Pig Hamster And Other Rodents American College Of Laboratory Animal Medicine

Rabbits have many uses - as well as being cherished pets, they are bred for their meat and fur, and as laboratory animals. Understanding their genetics and genomics is key to their production and, equally, to their care, welfare and health. Beginning with an introduction to the rabbit, including key information on their evolution, domestication and breed types, this book then concentrates on the genetics and genomics of this valuable animal. Concluding with practical applications such as creating transgenic and genome edited rabbits, biotechnical applications and the rabbit as a biomedical model, this book brings this important topic fully up-to-date. It provides an indispensable resource for animal and veterinary researchers and students, as well as rabbit breeders and laboratory scientists.

Anesthesia and Analgesia in Laboratory Animals focuses on the special anesthetic, analgesic, and postoperative care requirements associated with experimental surgery. Fully revised and updated this new edition provides the reader with agents, methods, and techniques for anesthesia and analgesia that ensure humane and successful procedural outcomes. * Provides researchers

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with the most comprehensive and up-to-date review of the use of anesthesia and analgesia in laboratory animals * Thoroughly updated with new material on ferrets, birds, reptiles, amphibians, fish, and invertebrates * Includes hot topic areas such as pain research, ethical issues, legal issues, and imaging studies "Edison and the Lab Rat" takes place in a science laboratory in the 1950s. The story highlights scientific facts contained in the Bible and emphasizes that the Lord our Creator is powerful and loving. "Kiki and the Guinea Pig" is a historically factual yet fictional story about guarding your heart from the love of money; it's set in the Incan Empire.

Laboratory Animal Anesthesia looks at recent significant developments in anesthetic practices in laboratory experiments involving animals. It also provides information about basic standards for proper use of anesthesia. In addition, it examines the equipment and different anesthetic agents that are used in performing an experiment on animals. The book also discusses the profound effects of anesthesia on the physiological aspect of the animals' body systems, such as hypothermia and respiratory depression. The book addresses the proper management and care that should be provided for the animals that undergo anesthesia. Furthermore, it covers different anesthetic procedures that should be used on various kinds of small animals intended for laboratory experiments. The

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main goal of this book is to provide information about the different anesthetic agents used in experiments, and the proper standards to follow when using anesthetics on lab animals. • New edition provides new information on anesthesia and analgesia, and has an extensively revised and updated bibliography • Provides a balanced consideration of the needs of scientific research and the welfare of laboratory animals • Written by a veterinary anesthetist and scientist with over 30 years' experience in the field, and who is actively engaged in research in this area • Provides rapid, easily accessed information using tabulated summaries • Provides those with limited experience of anesthesia with the information they need to carry our procedures effectively, safely, and humanely • Provides sufficient depth for the more experienced anesthetist moving to this field

Harkness and Wagner's *Biology and Medicine of Rabbits and Rodents*, Fifth Edition is a practical reference in small mammal husbandry and health, encompassing the fields of laboratory animal medicine and pet practice. Part of ACLAM's series of laboratory animal books, this text offers concise but complete coverage on rabbits and the most common rodent species, with an emphasis on biology, clinical procedures, clinical signs, and diseases and conditions. By providing useful, accessible assessment and diagnostic information, Harkness

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and Wagner's Biology and Medicine of Rabbits and Rodents aids the practitioner in diagnosing and treating conditions in small mammals.

Animal welfare is attracting increasing interest worldwide, but particularly from those in developed countries, who now have the knowledge and resources to be able to offer the best management systems for their farm animals, as well as potentially being able to offer plentiful resources for companion, zoo and laboratory animals. The increased attention given to animal welfare in the West derives largely from the fact that the relentless pursuit of financial reward and efficiency has led to the development of intensive animal production systems that offend the conscience of many consumers in those countries. In developing countries, human survival is still a daily uncertainty, so that provision for animal welfare has to be balanced against human welfare. Welfare is usually provided for only if it supports the output of the animal, be it food, work, clothing, sport or companionship. In reality there are resources for all if they are properly husbanded in both developing and developed countries. The inequitable division of the world's riches creates physical and psychological poverty for humans and animals alike in all sectors of the world. Livestock are the world's biggest land user (FAO, 2002) and the population, particularly of monogastric animals, is increasing rapidly to meet the need of an expanding human population.

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Populations of animals managed by humans are therefore increasing worldwide, so there is the tendency to allocate fewer resources to each one.

Dean H. Percy's name appears first on previous editions.

Goodman's Basic Medical Endocrinology, Fifth Edition, has been student tested and approved for decades. This essential textbook provides up-to-date coverage of rapidly unfolding advances in the understanding of hormones involved in regulating most aspects of bodily functions. It is richly illustrated in full color with both descriptive schematic diagrams and laboratory findings obtained in clinical studies. This is a classic reference for moving forward into advanced study.

Clinical case studies in every chapter E-book version available with every copy for obtaining images and tables for lectures or notes Clinicians added as co-authors to enhance usefulness by physicians and medical students and residents

Detailed molecular biology of hormones and hormone action for graduate and advanced undergraduate students Expanded and updated color images emphasizing hormone action at the molecular level In-depth molecular biology and clinical sections boxed for ease of access

For two decades, Swine in the Laboratory: Surgery, Anesthesia, and Experimental Techniques has been the most respected practical technical guide for medical and veterinary researchers using swine as experimental animals. Extensively updated and

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expanded since the publication of the second edition in 2007 and now sponsored by the American College of

Clinical Laboratory Animal Medicine: An Introduction, Fourth Edition offers a user-friendly guide to the unique anatomy and physiology, care, common diseases, and treatment of small mammals and nonhuman primates. Carefully designed for ease of use, the book includes tip boxes, images, and review questions to aid in comprehension and learning. The Fourth Edition adds new information on transgenic mice, drug dosages, techniques, and environmental enrichment, making the book a comprehensive working manual for the care and maintenance of common laboratory animals. The book includes information on topics ranging from genetics and behavior to husbandry and techniques in mice, rats, gerbils, hamsters, guinea pigs, chinchillas, rabbits, ferrets, and nonhuman primates. A companion website provides editable review questions and answers, instructional PowerPoints, and additional images not found in the book. Clinical Laboratory Animal Medicine is an invaluable resource for practicing veterinarians, veterinary students, veterinary technicians, and research scientists.

Laboratory Animal Medicine is a compilation of papers that deals with the diseases and biology of major species of animals used in medical research. The book discusses animal medicine, experimental methods and techniques, design and management of animal facilities, and legislation on laboratory animals. Several papers discuss the biology and diseases of mice, hamsters, guinea pigs, and rabbits. Another paper

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addresses the dog and cat as laboratory animals, including sourcing of these animals, housing, feeding, and their nutritional needs, as well as breeding and colony management. The book also describes ungulates as laboratory animals, including topics on sourcing, husbandry, preventive medical treatments, and housing facilities. One paper addresses primates as test animals, covering the biology and diseases of old world primates, Cebidae, and ferrets. Some papers pertain to the treatment, diseases, and needed facilities for birds, amphibians, and fish. Other papers then deal with techniques of experimentation, anesthesia, euthanasia, and some factors (spontaneous diseases) that complicate animal research. The text can prove helpful for scientists, clinical assistants, and researchers whose work involves laboratory animals. Netherland dwarf rabbit book including care, pros and cons, housing, cost, diet and health.

With laboratory animals, especially rabbits, playing such an important role in biomedical research, the humane care of these animals is an ongoing concern. The Laboratory Rabbit, Second Edition presents basic information and common procedures in detail to provide a quick reference for caretakers, technicians, and researchers in a laboratory setting. Now in full color, the second edition of this book illustrates management practices and technical procedures with numerous figures and tables. It includes updated tables on anesthetic agents, methods of euthanasia, recommended needle sizes, injection sites, approximate values for injection, and sedative and immobilization

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agents. Plastic comb-bound for convenient and frequent use, this guide also provides sources and suppliers of additional information on rabbits, feed, and sanitation supplies. The Laboratory Mouse, Second Edition is a comprehensive book written by international experts. With inclusions of the newly revised European standards on laboratory animals, this will be the most current, global authority on the care of mice in laboratory research. This well-illustrated edition offers new and updated chapters including immunology, viruses and parasites, behavior, enrichment and care standards of laboratory mice across the life sciences, medical and veterinary fields. Features four-color illustrations with complete instruction on mouse surgery, anatomy, behavior and care of the mouse in laboratory research Offers additional chapters on new mouse strains, phenotyping of strains, bacteria and parasites, and immunology Includes the newly revised EU standards on care, as well as, comparisons to standards and regulations in the US and other countries

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

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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 biotechnology 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.

This bestseller has been an essential book for all those working with laboratory animals since it was first published in 1994. This fourth edition retains all the classic features that have made it a must-have reference including emphasis on best practice in order to improve animal welfare. The contents have been thoroughly updated and reorganised to make sure it is a really practical book for day-to-day use in the laboratory. The first section of the book covers principles applicable to all species, for example husbandry, handling and the education and training required by scientists and technical staff working with animals in the laboratory. Later chapters focus on specific species or groups of species. New to this edition:

- Reflects changes in European legislation and

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their impact on national legislation • Covers recommendations for the education and training of those carrying out animal experiments across Europe • New chapters on ethical considerations and balancing animal welfare with science • New information on environmental enrichment for laboratory animals • Covers advancements in anaesthesia and analgesia and techniques • Spiral bound for ease-of-use as a bench-top reference This book is ideal for all personnel carrying out scientific procedures using animals, particularly during training and also for the new researcher. It will also be essential reading for study directors designing research programmes, animal technicians and veterinarians working with laboratory animal species.

This laboratory guidebook provides step-by-step procedures that will aid in the dissection and collection of major organs and tissues of the most common species of small animals used in biomedical research. Through extensive use of photographs and illustrations, the dissector is guided through a complete necropsy of each species for the purpose of

The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents is a single volume, comprehensive book sanctioned by the American College of Laboratory Animal Medicine (ACLAM), covering the rabbit, guinea pig, hamster, gerbil and other rodents often used in research. This well illustrated reference includes basic biology, anatomy, physiology, behavior, infectious and noninfectious diseases, husbandry and breeding, common experimental methods, and use of the species as a research model. With

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many expert contributors, this will be an extremely valuable publication for biomedical researchers, laboratory animal veterinarians and other professionals engaged in laboratory animal science. A new gold standard publication from the American College of Laboratory Animal Medicine series One stop resource for advancements in the humane and responsible care of: rabbit, guinea pig, hamster, gerbil, chinchilla, deer mouse, kangaroo rat, cotton rat, sand rat, and degu Includes up-to-date, common experimental methods Organized by species for easy access during bench research This text offers essential coverage of normal radiographic anatomy of small mammal species including rabbit, ferret, guinea pig, chinchilla, hamster, mouse, and rat. Historically used as laboratory animals, these "pocket pets" now have increasingly higher companion animal value and owners are more commonly seeking medical care for them. This resource is designed to help veterinarians meet increasing client demand for services. It provides an understanding of normal anatomic and radiographic features that will help clinicians more easily identify abnormal features to reach an accurate diagnosis. This is the only book of its kind for these species, designed to help practitioners expand the range of services offered for exotic and "pocket" pets. Provides complete directions for positioning each species during radiographic examination to obtain the highest quality images for accurate interpretation. Includes alternative imaging modalities such as CT, MRI, and ultrasound, for advanced diagnostic interpretation. Features radiographic exposure guidelines for each species and each

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radiographic view, for determining optimal settings and technique. Helpful line drawings are superimposed on radiographic images for accurate identification of anatomic structures. Covers contrast media studies that can enhance detail for radiographic interpretation in species where soft tissue density detail is poor.

In the years since the third edition of this indispensable reference was published, a great deal has been learned about the nutritional requirements of common laboratory species: rat, mouse, guinea pig, hamster, gerbil, and vole. The Fourth Revised Edition presents the current expert understanding of the lipid, carbohydrate, protein, mineral, vitamin, and other nutritional needs of these animals. The extensive use of tables provides easy access to a wealth of comprehensive data and resource information. The volume also provides an expanded background discussion of general dietary considerations. In addition to a more user-friendly organization, new features in this edition include: A significantly expanded section on dietary requirements for rats, reporting substantial new findings. A new section on nutrients that are not required but that may produce beneficial results. New information on growth and reproductive performance among the most commonly used strains of rats and mice and on several hamster species. An expanded discussion of diet formulation and preparation--including sample diets of both purified and natural ingredients. New information on mineral deficiency and toxicity, including warning signs. This authoritative resource will be important to researchers, laboratory technicians, and manufacturers of laboratory

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animal feed.

Principles of Animal Research is the first publication to offer a broad look at animal research science for a student, early researcher, or technician. Offering guidance for all aspects of the research experience, including the research and development of a thesis, model selection, experimental design, IACUC protocol preparation, and animal husbandry and technical procedural needs, the book is a necessary addition to every student, technician, and researcher's education. Provides background material for students to understand the broader backdrop against which animal research is undertaken Includes ethical and regulatory information Covers commonly used animal models and the process to choose a model for biomedical research

Exotic Animal Laboratory Diagnosis is a practical, user-friendly guide to diagnostic testing in a wide range of exotic species. Offers complete information on obtaining samples, performing tests, and interpreting laboratory results in exotic animals Presents information on each species using a similar format for easy access Emphasizes details on clinical biochemistries, urinalysis, and common laboratory diagnostic tests not found in other resources Draws together information on selecting, performing, and using diagnostic tests into a single easy-to-use resource Covers a wide range of species, including small mammals, primates, reptiles, aquatic animals, and wild, laboratory, and pet birds

Research Regulatory Compliance offers the latest information on regulations and

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compliance in the laboratory. With the increasing complexity of regulations and need for institutional infrastructure to deal with compliance of animal use issues, as well as a requirement surrounding human subjects, this publication provides reputable guidance and information. The book is extremely helpful as a resource for researchers, administrators, and technicians in the laboratory, and is also a great asset for faculty or new researchers coming in to the laboratory environment. It will help prepare users for the deluge of regulatory and compliance issues they will face while conducting their scientific programs. The book is edited and authored by known leaders in the field of compliance and regulations, and contains extensive research on the topics. It represents the new standard for information in every laboratory. Provides a "one-stop" , go-to resource for the many regulatory and compliance issues that affect laboratory study and research models Extremely helpful as a resource for researchers, administrators, and technicians in the laboratory, and also a great asset for faculty or new researchers coming in to the laboratory environment Focuses on United States regulations, covering both animal models and human subjects Written and edited by known leaders in the field of regulatory compliance who bring many years of collective experience to the book

Arranging the transportation of animals at research facilities is often an ordeal. There is a confusing patchwork of local, national, and international regulations; a perceived lack of high-quality shipping services; a dearth of science-based good practices; and a lack

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of biosafety standards. It's a challenge and an impediment to biomedical research. Guidelines for the Humane Transportation of Research Animals identifies the current problems encountered in the transportation of research animals and offers recommendations aimed at local and federal officials to rectify these problems. This book also includes a set of good practices based on the extensive body of literature on transportation of agricultural animals, universal concepts of physiology, and a scientific understanding of species-specific needs and differences. Good practices were developed by the committee to address thermal environment, space requirements, food and water requirements, social interaction, monitoring of transportation, emergency procedures, personnel training, and biosecurity. Guidelines for the Humane Transportation of Research Animals is an essential guide for all researchers, animal care technicians, facilities managers, administrators, and animal care and use committees at research institutions.

Committee on Infectious Diseases of Mice and Rats, National Research Council
This companion to Infectious Diseases of Mice and Rats makes practical information on rodent diseases readily accessible to researchers. This volume parallels the three parts of the main volume. Part I, Principles of Rodent Disease Prevention, briefly examines the requirements for maintaining pathogen-free rodents, factors in designing health surveillance programs, and other laboratory management issues. Part II, Disease Agents, is an easy-to-use reference

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section, listing diagnosis and control methods, the potential for interference with research, and other factors for disease agents ranging from adenoviruses to tapeworms. It covers bacteria, viruses, fungi and common ectoparasites, and endoparasites. Part III, Diagnostic Indexes, presents alphabetical listings of clinical signs, pathology, and research complications and lists infectious agents that might be responsible for each.

The seminal reference on the care of laboratory and captive animals, The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease

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ofreference. This book is published on behalf of UFAW (The UniversitiesFederation for Animal Welfare), with whom we also publish theUFAW/Wiley-Blackwell Animal Welfare Book Series. This majorseries of books provides an authoritative source ofinformation on worldwide developments, current thinking and bestpractice in the field of animal welfare science and technology. Fordetails of all of the titles in the series see [www.wiley.com/go/ufaw/a](http://www.wiley.com/go/ufaw).

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on

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terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

The 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.

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Topics on guinea pig behavior, genetics, specific pathogen-free technique, biotechnology, 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.

The mini lop rabbits belong to the medium sized class of rabbits. Mini lop rabbits are known to be very curious, energetic, playful and adorable. They can be clever and timid at the same time. They are ideal for people who are looking for tiny, cute and lovable pets. A small rabbit which has ears hanging from the side of the head is said to be a mini lop rabbit. They are popular for their intelligence and their playful and friendly demeanour. It can make an ideal pet if you can give your time and attention to the animal. It is important that a prospective buyer learns all they can about the animal. If you wish to buy and domesticate a mini lop rabbit, you should make an attempt to understand the unique mannerisms and antics of the animal. This will enable you to understand the pet better. The main aim of this book is to provide you with all the information that you need to domesticate a mini

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lop rabbit. This book will help you to clear up all the questions that you might be having regarding mini lop rabbits and their domestication. You have to take on the responsibility of taking care of the health and well-being of the pet. You don't want to get an animal home and later regret your decision. By following the tips and tricks discussed in the book, you will be able to give the pet a loving and caring home. Covered in this book: - Buying - Care - Costs - Diet - Grooming - Habitat requirements - Health - History - Housing - Pros & cons - Showing - Tips and tricks - Trainingand much more

The Laboratory Animal Pocket Reference Series was created to assist anyone who works with laboratory animals, enabling him or her to provide the most humane and responsible care. These 14 volumes are compact and comb-bound to lay flat for use in the laboratory. The contents of each includes important biological features, husbandry, management, veterinary care, regulatory concerns, and commonly used and new procedures, as well as a section that includes an invaluable list of suppliers. Each book in the series can be purchased individually or as part of the set. The series includes the following titles: The Laboratory Cat The Laboratory Nonhuman Primate The Laboratory Hamster and Gerbil The Laboratory Small Ruminant The Laboratory Canine The Laboratory Xenopus The Laboratory Zebrafish The Laboratory Ferret The Laboratory Swine,

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Second Edition The Laboratory Rabbit, Second Edition The Laboratory Guinea Pig, Second Edition The Laboratory Mouse, Second Edition The Laboratory Rat, Second Edition Critical Care Management for Laboratory Mice and Rats

Animals and Medicine: The Contribution of Animal Experiments to the Control of Disease offers a detailed, scholarly historical review of the critical role animal experiments have played in advancing medical knowledge. Laboratory animals have been essential to this progress, and the knowledge gained has saved countless lives—both human and animal. Unfortunately, those opposed to using animals in research have often employed doctored evidence to suggest that the practice has impeded medical progress. This volume presents the articles Jack Botting wrote for the *Research Defence Society News* from 1991 to 1996, papers which provided scientists with the information needed to rebut such claims. Collected, they can now reach a wider readership interested in understanding the part of animal experiments in the history of medicine—from the discovery of key vaccines to the advancement of research on a range of diseases, among them hypertension, kidney failure and cancer. This book is essential reading for anyone curious about the role of animal experimentation in the history of science from the nineteenth century to the present.

Praise for the First Edition "This book is easy to read and has many informative

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illustrations...I would strongly recommend this book to those interested in a broad introduction to the care and use of laboratory guinea pigs as well as to laboratory animal technicians, managers, veterinarians and scientists who do not have direct access to large, well organized animal resource units with extensive library facilities." —John D. Young, Contemporary Topics The Laboratory Guinea Pig provides a compact and well- illustrated introduction to research on the guinea pig. The second edition of this popular handbook facilitates quick reference to the behavioral and physical traits of the guinea pig, as well as practical information on its unique anatomical and biological features. Numerous tables and color illustrations help the reader identify features of anatomy and understand health issues and care requirements. Supplying a stepwise introduction to common laboratory techniques, the new edition of this trusted reference provides guidance that supports the humane care and use of guinea pigs in the laboratory setting. Background Lesions in Laboratory Animals will be an invaluable aid to pathologists needing to recognize background and incidental lesions while examining slides taken from laboratory animals in acute and chronic toxicity studies, or while examining exotic species in a diagnostic laboratory. It gives clear descriptions and illustrations of the majority of background lesions likely to be encountered. Many of the lesions covered are unusual and can be mistaken for treatment-related findings in preclinical toxicity studies. The Atlas has been prepared with contributions from experienced toxicological pathologists who are specialists in each of the

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laboratory animal species covered and who have published extensively in these areas. over 600 high-definition, top-quality color photographs of background lesions found in rats, mice, dogs, minipigs, non-human primates, hamsters, guinea pigs and rabbits a separate chapter on lesions in the reproductive systems of all laboratory animals written by Dr Dianne Creasy, a world expert on testicular lesions in laboratory animals a chapter on common artifacts that may be observed in histological glass slides extensive references to each lesion described aging lesions encountered in all laboratory animal species, particularly in rats in mice which are used for carcinogenicity studies

This remains the only comparative study of the rabbit and guinea pig used in biomedical research. In this unique volume, the authors illustrate in superb detail the anatomy of both species, permitting comparisons between them and highlighting morphological differences of clinical significance. An essential reference for anyone performing surgical or post-mortem procedures. Includes artwork to illustrate the position and orientation of structures in situ, in the living animal, as they will be encountered in carrying out a physical examination or surgical procedure. Illustrations of cross-sectional anatomy aid interpretation of diagnostic imaging such as ultrasonography.

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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

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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

The Laboratory Rat, Volume I: Biology and Diseases focuses on the use of rats in specific areas of research, ranging from dental research to toxicology. The first part of this book retraces the biomedical history of early events and personalities involved in the establishment of rats as a leading laboratory animal. The taxonomy, genetics and inbred strains of rats are also elaborated. The next chapters illustrate the hematology, clinical biochemistry, and anatomical and physiological features of the laboratory rat. This text concludes with a description of infectious diseases that may be contracted from laboratory and/or wild rats. This volume is a good source for commercial and institutional organizations involved in producing rats for research use, specialists in laboratory animal, animal care and research technicians, as well as students in graduate and professional curricula.

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

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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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