

# The Laboratory Rabbit Guinea Pig Hamster And Other Rodents

"Companion text to Manual of exotic pet practice"--Preface.

Now in its third edition, and for the first time in full-color, Exotic Animal Medicine for the Veterinary Technician is a comprehensive yet clear introduction to exotic animal practice for technicians in the classroom and clinic setting alike. With an emphasis on the exotic species most likely to present to a veterinary practice, coverage includes avian, reptiles, amphibians, fish, small mammals, and wildlife. Now in full color Features anatomy, restraint, common diseases to radiology, surgical assisting, and parasitology New chapter on fish medicine Companion website offering review questions and images from the text in PowerPoint

The 2e of the gold standard text in the field, Nonhuman Primates in Biomedical Research provides a comprehensive, up-to-date review of the use of nonhuman primates in biomedical research. The Diseases volume provides thorough reviews of naturally occurring diseases of nonhuman primates, with a section on biomedical models reviewing contemporary nonhuman primate models of human diseases. Each chapter contains an extensive list of bibliographic references, photographs, and graphic illustrations to provide the reader with a thorough review of the subject. Fully revised and updated, providing researchers with the most comprehensive review of the use of

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nonhuman primates in bioledical research Addresses commonly used nonhuman primate biomedical models, providing researchers with species-specific information Includes four color images throughout

The Biology of the Guinea Pig focuses on the use of the guinea pig as a substrate in research. This book provides a comprehensive coverage of material related to applied care and management of guinea pigs and their diseases. Topics on guinea pig behavior, genetics, specific pathogen-free technique, biomethodology, 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.

After nearly 20 years, the publication of this Second Edition of The Biology of the Laboratory Rabbit attests to its popularity within the scientific community as well as to the need to update an expanding database on the rabbit as a major species in laboratory investigation. The principal aim of this text is to provide a comprehensive and authoritative source of scientifically based information on a major laboratory animal species. The text continues to emphasize the normal biology as well as diseases of the

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European (domestic) rabbit, *Orytolagus cuniculus*, especially the New Zealand White breed, with occasional reference to other rabbit species (*Sylvilagus* sp.) and hares (*Lepus* sp.). New topics have been added to this second edition in response to changing trends in biomedical research and product testing as well as to suggestions from readers. New chapters included on: Anesthesia and analgesia Models in infectious disease research Models in ophthalmology and vision research Polyclonal antibody production Toxicity and safety testing Drug doses and clinical reference data

Colour Atlas of the Anatomy of Small Laboratory Animals discusses the five principal species of small mammal used in biomedical research. The atlas illustrates in detail the anatomy of the rabbit and guinea pig. It permits comparisons between closely related species and highlights morphological differences of clinical significance. Detailed contents and illustrations grouped by body regions enable scientists to locate material rapidly. The Colour Atlas of the Anatomy of Small Laboratory Animals will be of interest to laboratory animal biomedical researchers, veterinary scientists, pharmacologists and students of anatomy.

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

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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

Laboratory animals are becoming increasingly important for biomedical research. It is said that approximately 70% of biomedical research is associated with the use of experimental animals. Laboratory animal research not only expands our knowledge of science, but also greatly improves human and animal health. The field of laboratory animal science is ever-growing and changing as new experimental techniques are developed and new animal models are created. It is essential to know not only the biological features of each laboratory animal but also how to use and care for them responsibly in order to perform high-quality experiments. Courses in beginning Laboratory Animal Science are starting to be offered in many universities throughout the world. However, a practical introductory textbook that contains state-of-the-art techniques is still lacking. Fundamentals of Laboratory Animal Science provides comprehensive information on the principles and practices of using laboratory animals for biomedical research. Each individual chapter focuses on a key sub-discipline of laboratory animal science: animal welfare and best humane care practices in the laboratory; the quality control of laboratory animals; the anatomy, physiology, and husbandry of commonly used species; the principles of creating and using animal models for studying human diseases; practical techniques used for laboratory animal experiments; experimental design; and animal experimentation management. Knowledge of this broad spectrum of concepts and skills will ensure research

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goes smoothly while greatly reducing animal pain and distress. Well-illustrated and thoroughly referenced, this book will serve not only as a standard textbook but also as a handy guide for veterinarians, researchers, animal care staff, administrators, and other professionals who are involved in laboratory animal science.

This CD contains QuickTime movies that illustrate anaesthetic techniques for use in the rabbit and guinea pig. The movies are captioned to emphasise essential points.

This book comprehensively reviews the anatomy, physiology, genetics and pathology of laboratory animals as well as the principles and practices of using laboratory animals for biomedical research. It covers the design of buildings used for laboratory animals, quality control of laboratory animals, and toxicology, and discusses various animal models used for human diseases. It also highlights aspects, such as handling and restraint and administration of drugs, as well as breeding and feeding of laboratory animals, and provides guidelines for developing meaningful experiments using laboratory animals. Further, the book discusses various alternatives to animal experiments for drug and chemical testing, including their advantages over the current approaches. Lastly, it examines the potential effect of harmful pathogens on the physiology of laboratory animals and discusses the state of art in in vivo imaging techniques. The book is a useful resource for research scientists, laboratory animal veterinarians, and students of laboratory animal medicine.

Now in its fourth edition, Pathology of Laboratory Rodents and Rabbits has become a standard text for veterinary pathologists, laboratory animal veterinarians, students, and others interested in these species. • The standard reference on the pathogenesis and cardinal diagnostic features of diseases of mice, rats, hamsters, gerbils, guinea pigs, and rabbits • Expanded

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coverage of rabbit disease, normal anatomic features, and biology • Over 450 color photographs illustrating gross and microscopic pathology • Companion website offering images from the text in PowerPoint

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.

The third edition of The Laboratory Rat features updated information on a variety of topics, including rats as research models for basic and translational research in areas such as genomics, alcoholism, diabetes, metabolic syndrome, obesity, neuroscience, spinal cord injury, traumatic brain injury, regenerative medicine, and infectious disease. New information related to the husbandry and veterinary care of rats is provided including topics related to nutrition, reproduction, anesthesia and surgery, infectious and noninfectious disease, and the care of surgical and other fragile models. It is a premier source of information on the laboratory rat, this

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book will be of interest to veterinary and medical students, senior graduate students, postdocs and researchers who utilize animals in biomedical research. New chapters on the care of surgical and fragile models and on the use of rats in research areas such as alcoholism, regenerative medicine, spinal cord injury, traumatic brain injury, and others are included. All chapters were written by scientific and veterinary experts. This book condenses information from many sources on topics related to the care and use of rats in research. It is the premier source of information on the laboratory rat.

The revised fifth edition of *Clinical Laboratory Animal Medicine: An Introduction* is an accessible guide to basic information for conducting animal research safely and responsibly. It includes a review of the unique anatomic and physiologic characteristics of laboratory animals, husbandry practices, and veterinary care of many animals frequently used in research, including rodents, rabbits, ferrets, zebrafish, nonhuman primates, and agricultural animals. The updated fifth edition adds two new chapters on zebrafish and large animals, new information on transgenic models and genetic editing, and expanded coverage of environmental enrichment and pain management. The book presents helpful tip boxes, images, and review questions to aid in comprehension and learning, and a companion website provides editable review questions and answers, instructional PowerPoints, and additional images not found in the book. This important text:

- Provides a complete introduction to laboratory animal husbandry, diseases, and treatments
- Offers a user-friendly format with helpful content that highlights important concepts
- Contains new knowledge relating to technical methodologies, diseases, drug dosages, laws and regulations, and organizations
- Covers information on regulations, facilities, equipment, housing, and research variables as well as veterinary care

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Includes new chapters on zebrafish and cattle, sheep, goats, and pigs Written for veterinary technicians, veterinary students, practicing veterinarians, and research scientists, the fifth edition of *Clinical Laboratory Animal Medicine* continues to offer an essential guide to the ethical treatment and anatomic and physiological characteristics of research animals. *Exotic Animal Emergency and Critical Care Medicine* delivers the most relevant and current information required by general veterinary practitioners and veterinary specialists in treating emergent and critical exotic patients. Covering the management of common emergency presentations in exotic companion mammals, birds, reptiles, and amphibians, each section discusses triage and stabilization, diagnostics, nutrition and fluid therapy, analgesia, anesthesia, monitoring, CPR, and euthanasia. The book includes quick reference tables, species-specific drug formularies, and illustrations of exotic animal emergency procedures and techniques. The information contained within is based on an extensive review of the most current literature and the combined knowledge and expertise of international leaders in the field of exotic animal medicine and surgery. A one-stop resource like no other, *Exotic Animal Emergency and Critical Care Medicine* makes it easy to find the information needed to effectively treat urgent and life-threatening conditions in pet exotic animals. The book covers a wide range of species, encompassing: Exotic companion mammals, including ferrets, rabbits, guinea pigs, chinchillas, rats, mice, hamsters, gerbils, hedgehogs, and sugar gliders Birds, including psittacines, passerines, doves and pigeons, as well as backyard poultry and

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waterfowl Reptiles, including turtles and tortoises, snakes and lizards Amphibians Equally useful for general practitioners, specialists in emergency and critical care and exotic animal medicine, veterinary students, and trainees, Exotic Animal Emergency and Critical Care Medicine is an essential resource for the emergent and critical care of exotic animals.

The Biology of the Laboratory Rabbit is a compendium of papers that discusses the use of the rabbit as an experimental substrate in the scientific process. The collection describes normative biology, research utilization, and rabbit disease. These papers emphasize naturally occurring diseases which affect the value of the rabbit as a research tool. Some papers describe these effects and their impact for investigators engaged in laboratory experimental work on animal medicine. Other papers tackle the value of certain rabbit diseases as models of considerable interest in comparative medicine. Several papers discuss bacterial diseases, viral diseases, protozoal diseases, arthropod parasites, helminth parasites, neoplastic diseases, inherited diseases, nutritional diseases, metabolic, traumatic, mycotic, and miscellaneous diseases of the rabbit. One paper describes a number of diseases that man can acquire from domestic and laboratory rabbits. These include tularemia (which is endemic in wild rabbits and hares), plague (transmitted by fleas), listeriosis (rare in laboratory rabbit colonies), salmonellosis (from rabbit feces), and *Pasteurella multocida* (common in laboratory and domestic rabbits). The paper notes that laboratory and domestic rabbits

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are not a major health hazard. The compendium can benefit veterinarians, the medically-oriented investigator, the biologist, the medical and chemical researcher, and others whose work involve laboratory animal care.

The Main Themes Dealt In This Book Are: Housing; Anaesthesia And Euthanasia; Earthworms; Beetles; Locusts; American Cockroach; The Housefly; Freshwater Fish; Marine Aquaria; Frogs And Toads; Reptiles; Pigeon; Mouse; Rabbit; Guinea Pig Etc. The Present Volume Deals With The Habits, Behaviour, Collection, Reproductive Biology, Care And Management Of Laboratory Animals. It Is One Of The Few Books That Give A Practical Introduction To The Husbandry Of Laboratory Animals For Use Both By Research Workers And Technicians Involved. It Will Also Be Needed For Students Of Reproduction In Agriculture, Veterinary Medicine, Zoology And The Biomedical Sciences.

Gnotobiotics summarizes and analyzes the research conducted on the use of gnotobiotics, providing detailed information regarding actual facility operation and derivation of gnotobiotic animals. In response to the development of new tools for microbiota and microbiome analysis, the increasing recognition of the various roles of microbiota in health and disease, and the consequent expanding demand for gnotobiotic animals for microbiota/microbiome related research, this volume collates the research of this expanding field into one definitive resource. Reviews and defines gnotobiotic animal species Analyzes microbiota in numerous contexts Presents detailed

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coverage of the protocols and operation of a gnotobiotic facility

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

"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.

The Common Marmoset in Captivity and Biomedical Research is the first text dedicated exclusively to this species, filling an urgent need for an encyclopedic compilation of the existing information. Sponsored by the American College of Laboratory Animal Medicine as part of its authoritative Blue Book series, the book covers the biology, management, diseases, and clinical and research applications of this important species. The common marmoset (*Callithrix jacchus*) has come of age in the scientific community as a behaviorally complex, cognitively advanced, small, prolific, and easily maintained nonhuman primate with many of the advantages of larger animals, such as macaques, but without the attendant physical and zoonotic risks. Marmosets are currently being used in diverse areas of inquiry, including vision and auditory research, infectious disease, cognitive neuroscience, behavior, reproductive biology, toxicology and drug development, and aging. The marmoset genome has been sequenced and there is currently an intensive effort to apply gene editing technologies to the species.

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The creation of transgenic marmosets will provide researchers with a small nonhuman primate model to study a number of poorly understood disorders, like autism. Presents a complete view of the marmoset, covering their biology and management, diseases and clinical applications, and research applications Includes contributions from renowned and international authors and editors Provides the first authoritative and comprehensive treatment of marmosets in biomedical research as part of the ACLAM Series

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, 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

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This highly readable textbook provides a comprehensive but concise overview of the principles of oncogenesis in veterinary medicine, discussing selected tumors in domestic animals in detail, and addressing cancer diagnostics and therapy. All chapters are illustrated with histological and radiological images to enhance readers' understanding. Accordingly, the book is a must-have reference guide for all graduate and advanced undergraduate students in Veterinary Medicine with a special interest in oncology.

The revised edition of the renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science from principles to applications. Biomaterials Science, fourth edition, provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. This new edition incorporates key updates to reflect the latest relevant research in the field, particularly in the applications section, which includes the latest in topics such as nanotechnology, robotic implantation, and biomaterials utilized in cancer research detection and therapy. Other additions include regenerative engineering, 3D printing, personalized medicine and organs on a chip. Translation from the lab to commercial products is emphasized with new content dedicated to medical device development, global issues related to translation, and issues of quality assurance and reimbursement. In response to customer feedback, the new edition also features consolidation of

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redundant material to ensure clarity and focus. Biomaterials Science, 4th edition is an important update to the best-selling text, vital to the biomaterials' community. The most comprehensive coverage of principles and applications of all classes of biomaterials Edited and contributed by the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and updated to address issues of translation, nanotechnology, additive manufacturing, organs on chip, precision medicine and much more. Online chapter exercises available for most chapters

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.

Rodents & rabbits represent a significant percentage of modern day pets & therefore present a challenge to the veterinarian in a small animal practice. Written by internationally renowned experts, this text contains chapters covering rabbits, quines

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pigs, hamsters, chincillas, mice, rats & gerbils. Each specific animal chapter covers nutrition, infectious diseases, anaesthesia, metabolic diseases & parasitic infections. The combined experience outlined in this handbook is comprehensive & will provide the veterinarian with the best available guidance in this area of medicine.

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 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 Laboratory animals, including rabbits, play an important role in biomedical research and advances. The humane care and management of these animals is an ongoing concern. This guide was created especially for individuals performing research with rabbits

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whose duties include animal facility management, animal husbandry, regulatory compliance, and technical procedures involved with their research. Basic information and common procedures are presented in detail.

This issue, Guest Edited by Dr. Terry Campbell, focuses on Hematology in Exotic Animals. The comprehensive list of topics includes: Hematology of the Domestic Ferret (*Mustela putorius furo*), Hematological Assessment in Pet Rabbits: Blood Sample Collection and Blood Cell Identification, Hematological Assessment in Pet Guinea Pigs (*Cavia porcellus*): Blood Sample Collection and Blood Cell Identification, Hematology of Camelids, Avian Hematology, Fish Hematology and Associated Disorders, and more!

This issue of Clinics in Laboratory Medicine provides approaches and diagnostic techniques relating to the assessment of small and exotic animals. Topics covered include: Clinical Approach to Advanced Renal Function Testing in Dogs and Cats; A Laboratory Diagnostic Approach to Hepatobiliary Disease in Small Animals; Diagnosis of Small Intestinal Disorders in Dogs and Cats; Practical Interpretation and Application of Exocrine Pancreatic Testing in Small Animals; Using Cardiac Biomarkers in Veterinary Practice; Use of Lactate in Small Animal Practice; Diagnosis of Disorders of Iron Metabolism in Dogs and Cats; Making Sense of Lymphoma Diagnostics in Small Animal Patients; Hematology of Domestic Ferret; Hematological Assessment in Pet Rabbits: Blood Sample Collection and Blood Cell Identification; Hematological Assessment in Pet Rats, Mice, Hamsters, and Gerbils: Blood Sample Collection and Blood Cell Identification; Hematological Assessments in Pet Guinea Pigs: Blood Sample Collection and Blood Cell Identification; Avian Hematology; Reptile Hematology; Fish Hematology and Associated Disorders; Evaluation of the Blood Film.

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A concise guide to the care of small mammals, Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery covers the conditions seen most often in veterinary practice. The book emphasizes preventive medicine along with topics including disease management, ophthalmology, dentistry, and zoonosis. More than 400 illustrations demonstrate key concepts related to radiographic interpretation, relevant anatomy, and diagnostic, surgical, and therapeutic techniques. Now in full color, this edition adds coverage of more surgical procedures and expands coverage of zoonotic disease. From editors Katherine Quesenberry and James W. Carpenter, along with a team of expert contributors, the "Pink Book" provides an authoritative, single source of information that is hard to find elsewhere. A logical organization makes it quick and easy to find important information, with each section devoted to a single animal and chapters within each section organized by body system. Over 400 photographs and illustrations highlight key concepts such as radiographic interpretation and the main points of diagnostic, surgical, and therapeutic techniques. A chapter on ophthalmology provides hard-to-find information on eye care for ferrets, rabbits, rodents, and other small mammals. Coverage of preventive medicine includes basic biology, husbandry, and routine care of the healthy animal. The drug formulary supplies dosage instructions for ferrets, rabbits, guinea pigs, chinchillas, hamsters, rats/mice, prairie dogs, hedgehogs, and sugar gliders. Chapter outlines offer at-a-glance overviews of the contents of each chapter. Handy tables and charts make it easy to find key information. Expanded Zoonotic Diseases chapter adds more depth along with the latest information on the rising potential for disease transmission to humans as exotic pets become more popular. Additional surgical procedures for each species are included, some with step-by-step instructions accompanied by color

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photographs and line drawings. Full-color images show the sometimes minute structures of these small animals and make accurate diagnoses easier, especially for lymphoproliferative diseases of rabbits, endoscopy, cytology, and hematology.

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