



FOURTH EDITION

# CLINICAL LABORATORY ANIMAL MEDICINE

## An Introduction



**Karen Hrapkiewicz,  
Lesley Colby, and  
Patricia Denison**



**WILEY** Blackwell



# Clinical Laboratory Animal Medicine An Introduction

**Donald D. Holmes**



## **Clinical Laboratory Animal Medicine An Introduction:**

**Clinical Laboratory Animal Medicine** Karen Hrapkiewicz, Leticia Medina, 2013-04-01 Now in its third edition Clinical Laboratory Animal Medicine serves as an introductory resource for veterinarians veterinary technicians veterinary students and laboratory staff on treatment and management of laboratory animals including mice rats gerbils hamsters guinea pigs chinchillas rabbits ferrets and non human primates Each species chapter follows a simple and easy to use format covering behavior anatomic and physiological features breeding and reproduction husbandry handling and restraint blood collection urine collection drug administration anesthesia surgery postoperative care therapeutic agents and diseases Convenient tables supply essential biological and physiological data blood values and information on drug dosaging Appendices include normal values or hematological data and serum biochemical data as well as a listing of organizations in laboratory animal medicine Clinical Laboratory Animal Medicine not only facilitates safe and humane treatment of animals in laboratory settings but also can serve as a practical guide for veterinary practitioners and technicians who are faced with many of these same species in daily practice Clinical Laboratory Animal Medicine Karen Hrapkiewicz, Lesley A. Colby, Patricia Denison, 2013-11-11 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 Clinical Laboratory Animal Medicine Lesley A. Colby, Megan H. Nowland, Lucy H. Kennedy, 2019-10-11 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 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 **Clinical Laboratory Animal Medicine** Karen Hrapkiewicz, Lesley Colby, Patricia Denison, 2013 **Clinical Laboratory Animal Medicine** Donald D. Holmes, 1984 **An Introduction to Clinical Laboratory Animal Medicine** Donald D. Holmes, 1983

Laboratory Animal Medicine James G. Fox, F. Claire Hankenson, Kelly A. Metcalf Pate, Kathleen R. Pritchett-Corning, Mark A. Suckow, 2026-06-12 **Laboratory Animal Medicine Fourth Edition** a volume in the American College of Laboratory Animal Medicine ACLAM blue book series is the authoritative reference on the biology health and care for species involved in research Edited by recognized veterinary operational and research experts and endorsed as the official material for veterinary specialty certification by ACLAM this work defines the standard for all aspects of humane laboratory animal care and science with animal models This new edition contains significant changes in content and organization to reflect the evolution of the field The animal welfare chapter has been moved to the beginning of the book to highlight this subject's importance Other chapters have either been consolidated to encourage the reader to recognize commonalities such as those between guinea pigs gerbils and hamsters or separated out in recognition of expansions in knowledge and cross species complexity as illustrated by separate new and old world primate chapters Advances in practice technology and knowledge are highlighted in the chapters on genetically modified organisms with updates on new techniques in genetic engineering and consideration of non rodent genetically modified models microbiological monitoring with an increased emphasis on environmental monitoring and sentinel free colony health monitoring methods regulatory compliance with a comprehensive chapter on birds employee health and safety with expanded consideration of compassion fatigue and animal models in biomedical research with increased emphasis on experimental design and rigor New chapters on animal models for microbiome infectious disease and transplant research have been added to serve as a reference for the community This book is an excellent reference for veterinarians and research scientists as well as program directors and facility managers employed in a variety of academic and corporate settings This edition continues the tradition of this text in setting standards for the research animal science community as well as expanding and updating relevant and essential topics for this specialty field Covers the most important species used in life sciences research focusing on biology diseases and management Provides a renewed focus on animal welfare and expanded coverage of non human primates fishes avian models Includes guidance on laboratory animal program and human resources management Presents regulations policies and laws for laboratory animal

management worldwide *Harkness and Wagner's Biology and Medicine of Rabbits and Rodents* Patricia V. Turner, Colette L. Wheler, Hugues Beaufrère, Niora Fabian, John E. Harkness, 2025-08-19 Practical reference on small mammal husbandry and health now with full color clinical photographs throughout The Sixth Edition of Harkness and Wagner's Biology and Medicine of Rabbits and Rodents provides a thorough update to the classic reference on small mammal health and husbandry now with full color clinical photographs throughout Part of ACLAM's series of laboratory animal books the book is a comprehensive practical guide to caring for rabbits guinea pigs hamsters gerbils mice rats and chinchillas Emphasizing biology contemporary husbandry diagnostics and clinical procedures clinical signs and diseases and conditions the book is equally useful in the research companion animal practice or food animal setting New topics for the Sixth Edition include environmental monitoring for rodent health assessments behavioral management considerations for optimizing animal health enhanced pain assessment approaches as well as considerations for creating a welfare friendly small mammal practice The Sixth Edition also updates common therapeutics analgesics anesthetics and blood collection methodology disease biology husbandry diagnostic modalities and references and covers new techniques for creating and modifying genetically engineered rodents Harkness and Wagner's Biology and Medicine of Rabbits and Rodents includes information on General husbandry and disease prevention covering equipment needs factors predisposing to disease and occupational health and safety issues Clinical procedures covering hematology clinical chemistry urinalysis surgery post operative care dentistry ophthalmology and imaging Clinical signs and differential diagnoses covering astroviruses hepatitis E and leporid herpesvirus 4 for rabbits and antimicrobial resistance for commercial rabbits Serologic testing and diagnostic sample submission covering newer methodologies environmental monitoring and considerations for large rodent feeder breeder operations The Sixth Edition of Harkness and Wagner's Biology and Medicine of Rabbits and Rodents is an essential reference for veterinary professionals dealing with small mammal species in research or practice settings as well as veterinary students interested in small animals comparative medicine or laboratory animal medicine *Harkness and Wagner's Biology and Medicine of Rabbits and Rodents* John E. Harkness, Patricia V. Turner, Susan VandeWoude, Colette L. Wheler, 2013-03-22 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 and Wagner's Biology and Medicine of Rabbits and Rodents aids the practitioner in diagnosing and treating conditions in small mammals *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), *Laboratory Animal Medicine* Lynn C. Anderson, Franklin M. Loew, Fred W. Quimby, 2002-06-20 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.

*Herd/Flock Health and Medicine for the Exotic Animal Practitioner, An Issue of Veterinary Clinics of North America: Exotic Animal Practice, E-Book* Shangzhe Xie, 2021-08-08. This issue of *Veterinary Clinics Exotic Animal Practice* guest edited by Dr Shangzhe Xie is focused on Herd Flock Health and Medicine for the Exotic Animal Practitioner. This is one of three issues each year selected by the series consulting editor Dr J rg Mayer. Article topics include Principles of herd flock health and medicine, Therapeutics in herd flock medicine, Managing the health of captive flocks of birds, Managing disease outbreaks in captive flocks of birds, Managing the health of captive herds of exotic companion mammals, Managing disease outbreaks in captive herds of exotic companion mammals, Managing the health of captive groups of reptiles and amphibians, Prevention is Better Than Cure: an Overview of Disease Outbreak Management in Herptiles, Reproduction management of herds/flocks of exotic animals, and Disease prevention programs in herds/flocks of exotic animals.

**American Journal of Veterinary Research**, 2014. Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association.

**The Southwestern Veterinarian**, 1984.

**Laboratory Animal Science**, 1990.

*Mosby's Comprehensive Review for Veterinary Technicians* Monica M. Tighe, Marg Brown, 2008. For the new student or those preparing for certification exams, this book introduces and reviews the material from veterinary technology courses. Key topics ranging from basic and clinical science to professional practices and issues are covered.

[The Biology and Medicine of Rabbits and Rodents](#) John E. Harkness, Joseph E. Wagner, 1995. *The Biology and Medicine of Rabbits and Rodents* has long been considered a classic in veterinary medicine and laboratory animal science. Now in its fourth edition, this essential work remains a practical, easy access manual that spans the diverse needs of both practitioner and researcher. Drs Harkness and Wagner have carefully rewritten and extensively updated their practical, trusted resource. This new edition includes recognized species-specific approaches, new illustrations depicting restraint and clinical techniques, new case studies with updated test questions, easy-to-follow icons to direct you to the information you need, a broad range of topics for each species (rabbits, guinea pigs, hamsters, gerbils, rats, and mice), and expanded coverage of therapy, diagnosis, and treatment.

**Laboratory Animal Medicine** Institute of Laboratory Animal Resources (U.S.). Committee on Education, 1978.

**Journal of the American Veterinary Medical Association** American Veterinary Medical Association, 2006. Vols for 1915-49 and 1956 include the Proceedings of the annual meeting of the association.

[Subject Guide to Books in Print](#), 1996.

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