



# The Laboratory Animal

**International Committee on  
Laboratory Animals, National Research  
Council (É.-U.). Committee on  
Laboratory Animals**

## **The Laboratory Animal:**

**Defining the Laboratory Animal**, 1971      *The Laboratory Animal* William Lane-Petter, A. E. G. Pearson, 1971  
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Animal** International Committee on Laboratory Animals, National Research Council (É.-U.). Committee on Laboratory  
Animals, 1971      The Laboratory Rat Mark A. Suckow, Steven H. Weisbroth, Craig L. Franklin, 2005-12-20 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  
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premier source of information on the laboratory rat      Laboratory Animal Medicine Margi Sirois, 2005 This combination text  
and lab manual provides clinically relevant coverage of laboratory animal medicine and procedures It covers a variety of  
species including rats mice guinea pigs hamsters rabbits gerbils ferrets nonhuman primates and in a separate chapter  
nontraditional lab animals such as swine chinchillas armadillos reptiles amphibians bats farm animals and dogs and cats  
Coverage of each species is presented in a consistent format that includes taxonomy anatomy and physiology uses in  
biomedical research reproduction behavior husbandry restraint and handling identification methods injection techniques  
medication administration and anesthesia blood collection common diseases and euthanasia Other key topics include the  
laboratory setting regulatory guidelines and ethical considerations The lab manual portion of the book features a variety of  
exercises and observation sheets Comprehensive coverage of a variety of topics such as animal species the laboratory setting  
regulatory guidelines and ethical considerations prepares readers for a career in laboratory animal medicine Familiarizes  
readers with the handling behavior nutrition and lab and treatment procedures for a large variety of common and  
nontraditional laboratory animals The consistent organization of each species chapter makes it easy for readers to quickly  
identify similarities and differences among various laboratory animals Laboratory exercises are included in a perforated  
section at the end of the book allowing users to apply their knowledge and develop job skills Features a wealth of user  
friendly features such as a two color design learning objectives key points and review questions Provides detailed information  
on specific legal and ethical requirements of lab animal care and use including the ethics of pain management Convenient  
boxes and tables provide quick access to important anatomic and physiologic data for each species Discusses specific uses of  
each species in biomedical research providing readers with a perspective on animal use that allows them to explain the  
benefits of animal use as required by veterinary technology program accreditation procedures      Defining the Laboratory

Animal International Committee on Laboratory Animals. Symposium, 1971      **The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals** Robert C. Hubrecht, James Kirkwood, 2010-01-19 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 of reference This book is published on behalf of UFAW The Universities Federation for Animal Welfare with whom we also publish the UFAW Wiley Blackwell Animal Welfare Book Series This major series of books provides an authoritative source of information on worldwide developments current thinking and best practice in the field of animal welfare science and technology For details of all of the titles in the series see <http://www.wiley.com/go/uaw>

**Laboratory Animal Medicine** Lynn C. Anderson, Glen Otto, Kathleen R. Pritchett-Corning, Mark T. Whary, 2015-07-04 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      **Defining the**

**Laboratory Animal** Howard A. Schneider, 1971      *Handbook of Laboratory Animal Science, Volume I* Jann Hau, Steven J. Schapiro, 2010-12-02 Laboratory animal testing provides most of our current knowledge of human physiology microbiology immunology pharmacology and pathology From studies of genetics in fruit flies to studies of cellular processes in genetically modified mice to recent dramatic developments in genetics translational research and personalized medicines biomedical

Use of Laboratory Animals in Biomedical and Behavioral Research National Research Council, Institute of Medicine, Institute for Laboratory Animal Research, Commission on Life Sciences, Committee on the Use of Laboratory Animals in Biomedical and Behavioral Research, 1988-02-01 Scientific experiments using animals have contributed

significantly to the improvement of human health Animal experiments were crucial to the conquest of polio for example and they will undoubtedly be one of the keystones in AIDS research However some persons believe that the cost to the animals is often high Authored by a committee of experts from various fields this book discusses the benefits that have resulted from animal research the scope of animal research today the concerns of advocates of animal welfare and the prospects for finding alternatives to animal use The authors conclude with specific recommendations for more consistent government action

**The Laboratory Canine** Garrett Field,Todd A. Jackson,2006-10-02 Laboratory animals including dogs play an important role in biomedical research and medical advances Dogs have a long history of use in research and have contributed enormously to the health and welfare of both humans and animals The humane care and management of these animals is a fundamental component of their use in medical research T The Laboratory Ferret C. Andrew Matchett,Rena Marr,Felipe M. Berard,Andrew G. Cawthon,Sonya P. Swing,2012-03-09 Laboratory animals including ferrets play an important role in biomedical research and advances The humane care and management of these animals remains an ongoing concern Published in color to provide greater clarity to the techniques and concepts discussed The Laboratory Ferret presents basic information and common procedures in detail to pro **The Laboratory Rabbit** Mark A. Suckow,Valerie Schroeder,Fred A. Douglas,2010-04-12 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

**Fundamentals of Laboratory Animal Science** Enqi Liu,Jianglin Fan,2017-07-28 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 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 **Essentials of Laboratory Animal Science: Principles and Practices** P. Nagarajan,Ramachandra

Gudde,Ramesh Srinivasan,2021-07-23 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 *Defining the Laboratory Animal* National Research Council (U.S.),1971 *Guide for the Care and Use of Laboratory Animals* National Research Council,Division on Earth and Life Studies,Institute for Laboratory Animal Research,Committee for the Update of the Guide for the Care and Use of Laboratory Animals,2011-01-27 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 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      **Defining the Laboratory Animal** ,1971      **The Laboratory Cat** Brent J. Martin,1997-11-25 This guide was created especially for individuals performing research with cats 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

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