

The Laboratory **SWINE**

Second Edition



Peter J. A. Bollen
Axel K. Hansen
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A Volume in The Laboratory Animal Pocket Reference Series

Laboratory Animal Pocket Reference Series The Laboratory Swine Second Edition

Huangqi Zhang



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The Laboratory Swine Peter J. A. Bollen, Axel Kornerup Hansen, Aage Kristian Olsen Alstrup, 2010 *The Laboratory Swine* Peter J. A. Bollen, Axel K. Hansen, Aage K Olsen Alstrup, 2010-02-22 Addressing the biology husbandry management veterinary care and research applications of both large and miniature swine this color resource is renowned as the laboratory reference on swine It is thoroughly updated and includes a major revision to the anesthetics section It also places a heightened focus on animal welfare and addresses important considerations related to genetically modified swine The Laboratory Swine Second Edition is ideal for animal caretakers technicians investigators and laboratory animal veterinarians as a single source reference that contributes to the humane care and use of swine in research **The Laboratory Mouse,**

Second Edition Peggy J. Danneman, Mark A. Suckow, Cory Brayton, 2012-09-25 Mice have long been recognized as a valuable tool for investigating the genetic and physiological bases of human diseases such as diabetes infectious disease cancer heart disease and a wide array of neurological disorders With the advent of transgenic and other genetic engineering technologies the versatility and usefulness of the mouse as a model in biomedical research has soared As a result mouse colonies everywhere are expanding and scientists who previously focused on other models are turning their attention to the mouse Revised to reflect advances since the first edition The Laboratory Mouse Second Edition continues to be the most accessible reference on the biology and care of the laboratory mouse This guide presents basic information and common procedures in detail to provide a quick reference source for investigators technicians and caretakers in the humane care and use of the mouse in the laboratory setting Expanded updated and now in color this new edition includes coverage of the biological features husbandry management veterinary care experimental methodology and resources applying specifically to the mouse *The Laboratory Rat, Second Edition* Patrick Sharp, Jason S. Villano, 2012-12-11 Rats have long been recognized

as a valuable biomedical research model notably in the investigation of aging toxicology addiction and common human diseases such as diabetes and hypertension In many instances individuals conducting such research studies are charged with important responsibilities including animal facility management animal husbandry veterinary care regulatory compliance and various experimental methodologies With the advent of genetic manipulations and biomedical research technological advances such as bioimaging the versatility and usefulness of the rat as an animal model has soared The Laboratory Rat Second Edition captures the multiple advances in this important animal model s husbandry veterinary care and experimental methodology This edition features augmented expanded and novel information on biology anesthesia analgesia and experimental techniques benefiting personnel working with rats from the animal care staff to the researcher and everyone in between The book is also extremely useful to institutional animal care and use program supporters and elements including animal care and use committees institutional officials occupational health and safety professionals veterinary technicians and veterinarians **The Laboratory Guinea Pig** Donna J. Clemons, Jennifer L. Seeman, 2016-04-19 Laboratory animals play an

important role in biomedical research and advances Expanded updated and now published in full color to provide greater clarity to the techniques and concepts discussed this guide presents basic information and common procedures in detail to provide a quick reference for investigators technicians and caretakers in the laboratory setting It includes additional information on the research uses of the guinea pig along with updated medical care information [Handbook of Laboratory Animal Anesthesia and Pain Management](#) Cholatwat Pacharinsak,Jennifer C. Smith,2017-03-27 Rodents are the most commonly used species in biomedical research Individuals conducting rodent research are often responsible to ensure that all areas of anesthesia and analgesia are performed humanely Anesthetic agent selection anesthetic monitoring and postoperative pain assessment and management are essential to the institutional animal care and use program and contribute significantly to the 3Rs by reducing pain and or distress and refining various procedures The Handbook of Laboratory Animal Anesthesia and Pain Management Rodents is the first book to capture multiple advances in this important area that greatly impacts various experimental methodologies Richly illustrated in full color the book serves as a quick reference source for investigators veterinarians technicians and other animal caretakers charged with the care and use of rodents in a research setting The unique format of this book also makes it extremely valuable to IACUC members institutional officials and occupational health and safety professionals Key features Presents practical information in easily accessible bullet point format Covers anesthetic machine and related equipment anesthetic management and monitoring anesthesia and analgesia pharmacology euthanasia and record keeping Written by well recognized experts in the laboratory animal community Provides extensive references to direct the reader to sources for further study of alternative techniques and their procedures Concludes with a thorough chapter on Regulatory Management of Rodent Anesthesia which has global application **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 [The Laboratory Bird](#) Douglas K Taylor,Vanessa K Lee,Karen R Strait,2015-11-18 Laboratory animals including birds play an important role in biomedical research The humane care and management of these animals is an ongoing concern A new addition to the acclaimed Laboratory Animal Pocket Reference series The Laboratory Bird is the first publication dedicated to the care and use of avian species in the research setting Cove **The Laboratory Pig** Kirsten Rosenmay Jacobsen,Aage K Olsen Alstrup,Axel K. Hansen,Peter Bollen,2025-02-14 Since the popular second edition of The Laboratory Swine was published more than a decade ago the number of pigs used in toxicity studies has increased as an alternative to commonly used non rodent species while at the same time large developments have been made in welfare concepts of laboratory animals Pigs have gained prominence in both basic and applied research leading to a significant increase in publication activity This third edition

summarizes these new insights raising the bar for humane care and use of pigs from agricultural sources to genetically and microbiologically defined minipigs. Aimed at animal caretakers, technicians, laboratory animal veterinarians and investigators planning and performing studies on pigs, it provides an overview with extensive references for further study. The book has been updated with a special focus on refined methods for housing and handling pigs, including an updated description of commonly performed experimental and surgical procedures. Continuing its legacy as the premier reference on the care and use of pigs in the laboratory, the small, practical and accessible format makes this an easy go-to book with easy-to-find information and high-quality color images. The third edition aims to contribute to humane use and care for laboratory pigs in all aspects of housing, husbandry, veterinary care and experimental techniques.

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 provide a quick reference for investigators, technicians and caretakers in the laboratory setting. The book presents a greater understanding of the use of the ferret in research such as in studies on influenza. It is a valuable, handy reference for experienced individuals and for those without extensive training in working with ferrets.

The Laboratory Zebrafish Claudia Harper, Christian Lawrence, 2016-04-19. Like other books in the *Laboratory Animal Pocket Reference Series*, this guide covers all aspects pertaining to the use of these organisms, including their basic biology, humane care and management, husbandry, life support systems, regulatory compliance, technical procedures, veterinary care and water quality management. In the relatively brief span of...

Critical Care Management for Laboratory Mice and Rats F. Claire Hankenson, 2013-10-03. For critical care of laboratory rodents, there is a scarcity of sources for comprehensive, feasible and response-oriented information on clinical interventions specific to spontaneous and induced models of disease. With the more complex cases that need critical care management, many treatment approaches to veterinary emergencies cannot be applied.

The Laboratory Nonhuman Primate Jeffrey D. Fortman, Terry A. Hewett, Lisa C. Halliday, 2017-10-23. Key features: Contains 28 updated tables designed as quick, easy-to-use references for New and Old World species. Provides over 100 photographs and illustrations, most now in color, depicting aspects of nonhuman primate biology, behavior, management, practices, diseases and technical procedures. Gives a concise overview of regulatory considerations for the use of nonhuman primates in biomedical research. Expands the Veterinary Care chapter to include new sections on nutritional support, behavioral conditions, dental care and updated information on anesthetic and analgesic drugs. Presents step-by-step descriptions of common and advanced sampling techniques. Includes extensive resource lists for vendors of animals, feed, sanitation supplies, caging, anesthetic equipment and veterinary and research supplies. Extensively updated to include current literature. *The Laboratory Nonhuman Primate*, Second Edition, continues to

serve as a quick reference source for technicians caretakers veterinarians researchers and students working with primates in biomedical research It provides details on basic husbandry and covers biologic characteristics regulatory compliance common diseases and anesthetic management The text gives easy to follow descriptions of basic technical procedures including restraint intubation tuberculin skin testing and collection of blood and urine samples It also reviews advanced sampling procedures including collection of bone marrow cerebrospinal fluid bronchoalveolar lavage fluid and rectal mucosal biopsy The Laboratory Nonhuman Primate presents information in a clear concise format to allow readers to incorporate concepts and techniques into the standard operating procedures of a facility **Animal Clinical Chemistry** G.O.

Evans, 2009-04-01 10 Years of Updates Since First Edition Newcomers to the animal clinical chemistry and toxicology fields quickly find that the same rules of human medicine do not always apply Following in the footsteps of its standard setting first edition Animal Clinical Chemistry A Practical Handbook for Toxicologists and Biomedical Researchers Second Edition

Laboratory Animal Lizabeth A Terril, Donna J. Clemons, Karl Field, Amber L. Sibold, 2000-12-01 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 **The Laboratory Rabbit, Guinea Pig,**

Hamster, and Other Rodents Mark A. Suckow, Karla A. Stevens, Ronald P. Wilson, 2012-01-09 This 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 It is a 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 *Information Resources in Toxicology* P.J. Bert Hakkinen, Gerald Kennedy, Frederick W. Stoss, 2000-01-10 Information Resources in Toxicology Third Edition is a sourcebook for anyone who needs to know where to find toxicology information It provides an up to date selective guide to a large variety of sources books journals organizations audiovisuals internet and electronic sources and more For the Third Edition the

editors have selected organized and updated the most relevant information available New information on grants and other funding opportunities physical hazards patent literature and technical reports have also been added This comprehensive time saving tool is ideal for toxicologists pharmacologists drug companies testing labs libraries poison control centers physicians legal and regulatory professionals and chemists Serves as an all in one resource for toxicology information New edition includes information on publishers grants and other funding opportunities physical hazards patent literature and technical reports Updated to include the latest internet and electronic sources e mail addresses etc Provides valuable data about the new fields that have emerged within toxicological research namely the biochemical cellular molecular and genetic aspects

The Laboratory Guinea Pig, Second Edition Donna J. Clemons, Jennifer L. Seeman, 2011-06-13 Praise for the First Edition This book is easy to read and has many informative 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 *The Laboratory Mouse* Mark A. Suckow, Sara Hashway, Kathleen R. Pritchett-Corning, 2023-02-08 With the advent of transgenic and other genetic engineering technologies the versatility and usefulness of the mouse as a model in biomedical research has soared Revised to reflect advances since the second edition The Laboratory Mouse continues to be the most accessible reference on the biology and care of the mouse in research settings This guide presents basic information and common procedures in detail to provide a quick reference source for investigators technicians and caretakers on the humane care and use of the mouse The new edition adds information on novel technologies such as CRISPR Cas and on housing systems and management practices it covers new concepts such as pain assessment by facial expression and the importance of nest building as an assessment tool of well being There are now expanded sections on anesthesia and analgesia and on behavior and enrichment An ideal quick reference for investigators technicians and animal caretakers charged with the care and or use of mice in a research setting this book will be particularly valuable to those new to working with mice who need to start research programs using these animals *The Laboratory Zebrafish* Carole Wilson, David Chu, 2024-11-25 This guide covers all aspects pertaining to the use of zebrafish including their basic biology humane care and management husbandry life support systems regulatory compliance technical procedures veterinary care and water quality management The zebrafish is

now a mainstream model animal employed by scientists to study everything from stem cells to the basis of behavioral changes induced by drug addiction However there are few accepted and established standards for husbandry management and care for the fish in laboratory settings and even fewer comprehensive and constantly reliable resources To this end the goal of this handbook is to provide managers veterinarians investigators technicians and regulatory personnel with a concise yet thorough reference on zebrafish biology care husbandry and management The new edition includes more figures tables and bullet points a wealth of new full color images major updates on health and welfare including colony health surveillance and viruses and a complete overhaul of the compliance section to address more international concerns

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