

# The Laboratory **MOUSE**

Second Edition

Peggy J. Danneman  
Mark A. Suckow  
Cory F. Brayton



**CRC Press**  
Taylor & Francis Group

A Volume in The Laboratory Animal  
Pocket Reference Series

# Laboratory Animal Pocket Reference Series The Laboratory Mouse Second Edition

**Peter J. A. Bollen**



## **Laboratory Animal Pocket Reference Series The Laboratory Mouse Second Edition:**

**The Laboratory Mouse** 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 *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 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 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

**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

*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 Ferret** C. Andrew Matchett, 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 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 Swine** Peter J. A. Bollen, 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

*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

**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 microbiological 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

**Laboratory Animal** Elizabeth 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 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     **The Laboratory Mouse** Hans Hedrich,2012-06-14 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     *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     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 Editio     *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

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## Reviewing **Laboratory Animal Pocket Reference Series The Laboratory Mouse Second Edition**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Laboratory Animal Pocket Reference Series The Laboratory Mouse Second Edition**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Laboratory Animal Pocket Reference Series The Laboratory Mouse Second Edition Introduction**

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