

GUIDELINES  
FOR THE  
CARE AND  
USE OF  
MAMMALS IN  
NEUROSCIENCE  
AND  
BEHAVIORAL  
RESEARCH

NATIONAL RESEARCH COUNCIL  
OF THE NATIONAL ACADEMIES

# **Guidelines For The Care And Use Of Mammals In Neuroscience And Behavioral Research**

**National Research Council, Division on  
Earth and Life Studies, Institute for  
Laboratory Animal  
Research, Committee on Recognition  
and Alleviation of Pain in Laboratory  
Animals**

## **Guidelines For The Care And Use Of Mammals In Neuroscience And Behavioral Research:**

**Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research** National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Committee on Guidelines for the Use of Animals in Neuroscience and Behavioral Research, 2003-09-22 Expanding on the National Research Council's Guide for the Care and Use of Laboratory Animals this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals and guidance on adapting these guidelines to various situations without hindering the research process. *Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research* offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's well-being. General animal care elements as they apply to neuroscience and behavioral research and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high quality research. *Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research* treats the development and evaluation of animal use protocols as a decision-making process not just a decision. To this end it presents the most current in-depth information about the best practices for animal care and use as they pertain to the intricacies of neuroscience and behavioral research.

**The IACUC Handbook, Second Edition** Jerald Silverman, Mark A. Suckow, Sreekant Murthy, 2006-10-04 Since its establishment by USDA regulation in the mid 1980s the Institutional Animal Care and Use Committee (IACUC) has evolved as the premier instrument of animal welfare oversight within research institutions in the United States. By addressing questions and problems that often confront institutions *The IACUC Handbook Second Edition* provides accurate succinct answers. It features comprehensive updates for all pertinent federal laws, regulations and policies. It also contains an expanded survey of IACUC practices from institutions around the nation. With accessible information this new edition provides a foundation for those attempting to understand and implement the many and varied responsibilities of these committees.

*The IACUC Handbook* Jerald Silverman, Mark A. Suckow, Sreekant Murthy, 2014-05-20 Ever since its establishment by USDA regulation in the mid 1980s the Institutional Animal Care and Use Committee (IACUC) has evolved as the premier instrument of animal welfare oversight within research institutions in the United States. As biomedical research continuously grows the role and impact of the IACUC has increased in scope and complexity. *The IACUC Handbook* has become the Bible for individuals when the time comes for them to serve on their institution's IACUC. It provides a foundation for understanding and implementing the many and varied responsibilities of this committee. This Third Edition comprehensively addresses the significant changes in the pertinent regulatory environment and interpretation of applicable federal laws, regulations and policies. It provides multiple references and commentary on the new

edition of the Guide for the Care and Use of Laboratory Animals the new AVMA Guidelines for the Euthanasia of Animals 2013 Edition and the Office of Laboratory Animal Welfare's Frequently Asked Questions The Third Edition also features an updated survey of IACUC practices from institutions around the United States offering wisdom gained from their experience In addition it includes a chapter that provides an international perspective on how animal welfare reviews can function in other countries

**The Care and Feeding of an IACUC** Whitney Kayla Petrie, Sonja Lea Wallace, 2015-03-24 Maintaining its user friendly approach this new edition of a bestseller summarizes information necessary for the effective and efficient operation of an IACUC The book covers training programs and discusses professional certifications for IACUC administrative and animal care staff It provides pointers to principal investigators discusses interactions between IACUCs and other compliance panels and addresses occupational health and safety programs and the role they play in the overall animal care and use program It also delves deeply into bioethics to explore how IACUCs can ensure that each proposal to use animals in research includes an ethical review

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

Handbook of Laboratory Animal Anesthesia and Pain Management Cholat 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

**Recognition and Alleviation of Distress in Laboratory Animals** National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Committee on Recognition and Alleviation of Distress in Laboratory Animals, 2008-04-10 Scientific advances in our understanding of animal physiology and behavior often require theories to be revised and standards of practice to be updated to improve laboratory animal welfare This new book from the Institute for Laboratory Animal Research ILAR at the National Research Council Recognition and Alleviation of Distress in Laboratory Animals focuses on the stress and distress which is experienced by animals when used in laboratory research This book aims to educate laboratory animal veterinarians students researchers and investigators animal care staff as well as animal welfare officers on the current scientific and ethical issues associated with stress and distress in laboratory animals It evaluates pertinent scientific literature to generate practical and pragmatic guidelines Recognition and Alleviation of Distress in Laboratory Animals focuses specifically on the scientific understanding of the causes and the functions of stress and distress the transformation of stress to distress and the identification of principles for the recognition and alleviation of distress This book discusses the role of humane endpoints in situations of distress and principles for the minimization of distress in laboratory animals It also identifies areas in which further scientific investigation is needed to improve laboratory animal welfare in order to adhere to scientific and ethical principles that promote humane care and practice

*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

*Recognition and Alleviation of Pain in Laboratory Animals* National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Committee on Recognition and Alleviation of Pain in Laboratory Animals, 2010-01-14 The use of animals in research adheres to scientific and ethical principles that promote humane care and practice Scientific advances in our understanding of animal physiology

and behavior often require theories to be revised and standards of practice to be updated to improve laboratory animal welfare

**Recognition and Alleviation of Pain in Laboratory Animals** the second of two reports revising the 1992 publication **Recognition and Alleviation of Pain and Distress in Laboratory Animals** from the Institute for Laboratory Animal Research ILAR focuses on pain experienced by animals used in research This book aims to educate laboratory animal veterinarians students researchers and investigators Institutional Animal Care and Use Committee members and animal care staff and animal welfare officers on the current scientific and ethical issues associated with pain in laboratory animals It evaluates pertinent scientific literature to generate practical and pragmatic guidelines for recognizing and alleviating pain in laboratory animals focusing specifically on the following areas physiology of pain in commonly used laboratory species pharmacologic and non pharmacologic principles to control pain identification of humane endpoints and principles for minimizing pain associated with experimental procedures Finally the report identifies areas in which further scientific investigation is needed to improve laboratory animal welfare

*Pathology of the Developing Mouse* Brad Bolon, 2015-04-24

*Pathology of the Developing Mouse* provides in so far as feasible one complete reference on the design analysis and interpretation of abnormal findings that may be detected in developing mice before and shortly after birth In particular this book is designed specifically to be not only a how to do manual for developmental pathology exper

*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

**Dopaminergic System Function and Dysfunction: Experimental Approaches** José Antonio Fuentealba-Evans,Pablo Henny,2022-12-07 This volume provides a variety of technical approaches to study dopamine system function and dysfunction Chapters guide readers through dopamine release in ex vivo and freely moving animals multi recording devices for in vivo simultaneous single cell and population activity in silico modeling of dopamine neurons activity neuroanatomical approaches unbiased stereology ultrastructural analyses of dopaminergic neurons and axonal innervation Additionally chapters also incorporate pharmacological tools to model neuropsychiatric diseases novel behavioral paradigms to dissect dopamine s role in behavior and functional imaging to follow human dopamine system development In the Neuromethods series style chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory Comprehensive and cutting edge Dopamine Neurotransmission aims to be a valuable resource for researchers in various disciplines

**Anesthesia and Analgesia in Laboratory Animals** Richard Fish,Peggy J. Danneman,Marilyn Brown,Alicia Karas,2011-04-28 Anesthesia and Analgesia in Laboratory Animals focuses on the special anesthetic analgesic and postoperative care requirements associated with experimental surgery Fully revised and updated this new edition provides the reader with agents methods and techniques for anesthesia and analgesia that ensure humane and successful procedural outcomes Provides researchers with the most comprehensive and up to date review of the use of anesthesia and analgesia in laboratory animals Thoroughly updated with new material on ferrets birds reptiles amphibians fish and invertebrates Includes hot topic areas such as pain research ethical issues legal issues and imaging studies

**Anesthesia and Analgesia in Laboratory Animals** Melissa Dyson,Paulin Jirkof,Jennie Lofgren,Elizabeth Nunamaker,Daniel Pang,2023-05-17 Anesthesia and Analgesia in Laboratory Animals focuses on the special anesthetic analgesic and postoperative care requirements associated with experimental interventions Fully revised and updated this new edition provides the reader with agents methods and techniques for anesthesia and analgesia that ensure humane reproducible and successful procedural outcomes Sections cover ethical regulatory and scientific considerations principles of anesthesia and analgesia anesthetic equipment and monitoring periprocedural care including dedicated chapters to the assessment and management of pain in laboratory species and practical considerations by species including relevant anatomy physiology and behavior of a broad range of lab animal species This will be a complete reference for veterinarians involved in lab animal research as well as senior graduate graduate students post docs and researchers who utilize animals in biomedical research Provides researchers with the most comprehensive and up to date review of the use of anesthesia and analgesia in laboratory animals Includes complete coverage of agents impact in research outcomes Thoroughly updated with new material on ferrets

birds reptiles amphibians fish and cephalopods Covers hot topic areas such as pain research ethical issues legal issues and imaging studies     **Scientific Integrity, 3rd Edition** ,     *Pain in Dementia* Stephen J. Gibson, Stefan

Lautenbacher, 2016-12-19 A high percentage of patients with dementia experience debilitating pain Untreated it can result in mental and physical impairment a higher frequency of neuropsychiatric symptoms such as agitation depression and sleep problems and adverse events such as falls hallucination and even death With the help of *Pain in Dementia* you can learn new ways to give these patients a better quality of life A multidisciplinary team of leading experts navigates the complex clinical challenges associated with pain among these patients They identify the sources of pain even in patients who have trouble communicating and recommend the most effective pain treatment options     *The Interplay Between Epigenetic Regulation and Other Cellular Processes* Kai Tang, Huiming Zhang, 2021-07-05     *Animal Rights* Clifford J. Sherry, 2009-10-27 This

revised edition helps readers understand and develop their own opinions on the fundamental issues enduring controversies and critical developments associated with animal rights First published in 1994 *Animal Rights A Reference Handbook* was widely acclaimed for its objective look at the ways in which humans treat animals Extensively revised and updated this new edition explores the basis for current perspectives on animal rights by addressing the relationship between humans and animals from scientific philosophical legal and religious points of view *Animal Rights A Reference Handbook Second Edition* maintains the balance and accessibility of the first edition letting readers decide the bounds of human responsibility toward animals It surveys a wide range of controversies surrounding the use of animals in such fields as the food industry medical research and the realm of entertainment as well as the tremendous surge in scientific discoveries and technological advances that have led to new conversations on animal rights in the 21st century     **Nonhuman Primates in Biomedical**

**Research, Two Volume Set** Christian R. Abee, Keith Mansfield, Suzette D. Tardif, Timothy Morris, 2012-12-31 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 publication emphasizes the biology and management diseases and biomedical models for nonhuman primate species most commonly used in research Each chapter contains an extensive list of bibliographic references photographs and graphic illustrations to provide the reader with a thorough review of the subject The *Biology and Management* volume provides basic information on the natural biology of nonhuman primates and the current state of knowledge regarding captive management 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 Now in four color throughout making the book more visually stimulating to enhance learning and ease of use Fully revised and updated providing researchers with the most comprehensive review of the use of nonhuman primates in biomedical research Addresses commonly used nonhuman primate biomedical models providing researchers with species specific information     **Sourcebook of Models for Biomedical Research** P. Michael Conn, 2008 The collection of



systems represented in Sourcebook of genomic programs although this work is certainly well Models for Biomedical Research is an effort to reflect the represented and indexed diversity and utility of models that are used in biomedicine Some models have been omitted due to page limitations That utility is based on the consideration that observations and we have encouraged the authors to use tables and made in particular organisms will provide insight into the gures to make comparisons of models so that observations workings of other more complex systems Even the cell not available in primary publications can become useful to cycle in the simple yeast cell has similarities to that in the reader humans and regulation with similar proteins occurs We thank Richard Lansing and the staff at Humana for Some models have the advantage that the reproductive guidance through the publication process mitotic development or aging cycles are rapid compared As this book was entering production we learned of the with those in humans others are utilized because individual loss of Tom Lanigan Sr Tom was a leader and innovator proteins may be studied in an advantageous way and that in scientific publishing and a good friend and colleague to have human homologs Other organisms are facile to grow all in the exploratory enterprise We dedicate this book to in laboratory settings or lend themselves to convenient analysis his memory We will miss him greatly

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Guidelines For The Care And Use Of Mammals In Neuroscience And Behavioral Research**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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