

# Health and Safety in Laboratory Animal Facilities

*Edited by*  
Margery Wood  
Maurice W. Smith

# Health And Safety In Laboratory Animal Facilities

**National Research Council (U.S.).  
Committee on the Guide for  
Laboratory Animal Facilities and Care**



## **Health And Safety In Laboratory Animal Facilities:**

*Health and Safety in Laboratory Animal Facilities* Margery Wood, Maurice W. Smith, 1999 This text provides guidance on assessing hazards and risks in the animal laboratory and how to eliminate or minimize them It covers the extent and range of hazards in animal facilities including the physical problems associated with building and plant The contributors tackle specific areas of concern such as infection allergy genetic manipulation chemicals and radiation Guidance on safety management and the law is also provided The book emphasizes that each facility is unique and must be assessed locally by persons familiar with each aspect

### **Occupational Health and Safety in the Care and Use of Research Animals**

National Research Council, Commission on Life Sciences, Institute for Laboratory Animal Research, Committee on Occupational Safety and Health in Research Animal Facilities, 1997-07-09 Much has been written about the care of research animals Yet little guidance has appeared on protecting the health and safety of the people who care for or use these animals This book an implementation handbook and companion to *Guide For the Care and Use of Laboratory Animals* identifies principles for building a program and discusses the accountability of institutional leaders managers and employees for a program's success It provides a detailed description of risks physical and chemical hazards allergens and zoonoses and hazards from experiments which will serve as a continuing reference for the laboratory The book offers specific recommendations for controlling risk through administrative procedures facility design engineering controls and periodic evaluations The volume focuses on the worker with detailed discussions of work practices the use of personal protective gear and the development of an emergency response plan This handbook will be invaluable to administrators researchers and employees in any animal research facility It will also be of interest to personnel in zoos animal shelters and veterinary facilities

### **Lab Safety Seminar-Animal Health ,**

### **Health and Safety in Animal Facilities**

Great Britain. Education Service Advisory Committee, 1992 *Guide for Laboratory Animal Facilities and Care* National Research Council (U.S.).

Committee on the Guide for Laboratory Animal Facilities and Care, 1965

### **Guide for the Care and Use of Laboratory**

**Animals** Institute of Laboratory Animal Research, Commission on Life Sciences, National Research Council, 1996-07-23 A respected resource for decades the *Guide for the Care and Use of Laboratory Animals* has been revised by a committee of experts based on input from scientists and the public The Guide incorporates recent research on commonly used species including farm animals and includes extensive references It is organized around major components of animal use Institutional policies and responsibilities The committee discusses areas that require policy attention the role and function of the Institutional Animal Care and Use Committee protocols for animal care and use occupational health and safety personnel qualifications and other areas Animal environment husbandry and management The committee offers guidelines on how to design and run a management program addressing environment nutrition sanitation behavioral and social issues genetics nomenclature and more Veterinary care The committee discusses animal procurement and transportation disease and

preventive medicine and surgery The Guide addresses pain recognition and relief and issues surrounding euthanasia Physical plant The committee identifies design and construction issues providing guidelines for animal room doors drainage noise control surgery and other areas The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities a resource of proven value now updated and expanded This revision will be important to researchers animal care technicians facilities managers administrators at research institutions policymakers involved in research issues and animal welfare advocates Guide for the Care and Use of Laboratory Animals, 1996 Demonstrates how computers logic controllers PLCs and programmable logic devices PLDs have in common the characteristics of being synchronous sequential systems and differ with regard to modularity design confidentiality and speed The first section introduces logic controllers and makes the connection between digital electronics and PLCs The second section is dedicated to PLDs and their use in designing PLCs The final section considers PLCs and their applications and PLC programming languages Annotation copyrighted by Book News Inc Portland OR **Guide for Laboratory Animal Facilities and Care** Institute of Laboratory Animal Resources (U.S.). Committee on the Guide for Laboratory Animal Facilities and Care, 1965 Guide for the Care and Use of Laboratory Animals -- Korean Edition National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Commission on Life Sciences, 2005-08-27 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

*Handbook of Laboratory Animal Management and Welfare* Sarah Wolfensohn, Maggie Lloyd, 2008-04-15 This third edition of the bestseller *Handbook of Laboratory Animal Management Welfare* has been fully revised and updated making it an essential handbook for all those working with animals under the Animals Scientific Procedures Act 1986 Designed to be a practical reference book it covers every area of animal care and aims to improve animal welfare through best practice and refinement of techniques It covers principles applicable to all species including training of licensees the regulatory framework euthanasia management of pain and stress anaesthesia and surgery and also includes specific sections on biology and husbandry

**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

*Handbook of Laboratory Animal Science* Jann Hau, Steven J. Schapiro, 2002-10-28 The second edition of an international bestseller this book provides veterinary specialists as well as veterinary and biomedical researchers with detailed information about laboratory animal genetics diseases health monitoring nutrition and environmental impact on animal experiments Completely revised and updated Volume I now contains expand

*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

**Management of Laboratory Animal Care and Use Programs** Mark A. Suckow, Fred A. Douglas, Robert H. Weichbrod, 2001-11-28 The management of biomedical research using animals has become increasingly complex due to new technology increased regulatory oversight and recognition of the need for animals free of disease and distress Within this changing environment individuals charged with the management of laboratory animal facilities have a substantial responsibility to the institution the public and the animals *Management of Laboratory Animals Care and Use Programs* provides both factual and theoretical information drawn from the substantial experience of authors who are noted experts in the field This book will provide individuals with the basic knowledge and information necessary to meet typical professional challenges A co publication with the American Association for Laboratory Animal Science this valuable book

serves as the text for the Certified Manager Animal Resources CMAR exam

**Information Resources for Institutional Animal Care and Use Committees**, 2000

**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

**Planning and Designing Research Animal Facilities** Jack Hessler, Noel Lehner, 2011-04-28 Research institutions have or are planning to build expand and renovate animal research facilities to keep up with the demands of biomedical research caused in part by growth in the use of genetically altered rodents and the upsurge of research in infectious diseases Properly designed facilities greatly facilitate effective management and high quality day to day animal care that is required to optimally support animal research and testing There are multiple solutions to address the myriad of factors that influence the design and construction of animal research facilities There is no best design applicable for all facilities and arguably not even a single best design for a given facility For this reason Planning and Designing Research Animal Facilities is not intended to be a how to book The goal is to cover the basic programmatic requirements of animal research facilities provide ideas for meeting those requirements while hopefully stimulating the creative process in which designers in consultation with those who work in animal research facilities generate even better ideas That is how progress has been made and will continue to be made Facilitates communication between the parties involved in planning and designing animal facilities by providing contemporary information and stimulating creativity that will help lead to wise decisions and advance the knowledge base for planning design and constructing animal research facilities

**Practical Management of Research Animal Care and Use Programs** Javier Guillén, Viola Galligioni, 2024-11-06 This book provides a complete guide to all the aspects to consider during planning establishing and managing ethically and efficiently research animal care and use programs taking into account all stakeholders involved in the process Practical information on how to address the general and particular needs of all animal care and use program areas is provided Consequently the reader is supported with getting their project ethically and legally compliant and implemented efficiently with organizing safe and appropriate facilities and equipment as well as hiring sufficiently trained personnel Furthermore strategies for impactful

internal and external communication are outlined Responsible use of animals in research can be nothing but teamwork The environment and professional experience of all involved stakeholders are the key for ensuring quality science as well as animal and personnel welfare Research animal care and use programs represent a complex system in which animals legislation and good practices facility personnel and researchers interact on a daily basis Thoughtful planning from the first step ensures animal welfare and improves the quality of in vivo experimentation This book addresses animal program managers veterinarians researchers and technicians working in research animal facilities Chapter 18 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**Guide for the Care and Use of Laboratory Animals -- Japanese Edition** National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Commission on Life Sciences, 1997-01-31 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

[Guide for the Care and Use of Laboratory Animals](#) Institute of Laboratory Animal Resources (U.S.). Committee on Revision of the Guide for Laboratory Animals Facilities and Care, 1972

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