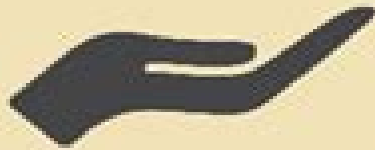


Handling



Husbandry



Impact on  
animals



Genetic  
modification

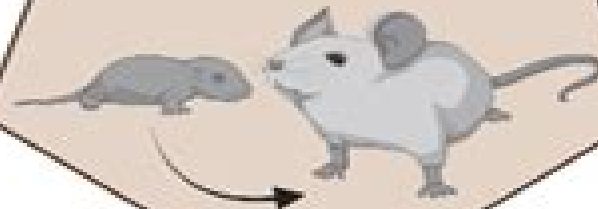


Gene

Experiment



Old age



# Laboratory Animal Welfare

**National Research Council, Division on  
Earth and Life Studies, Institute for  
Laboratory Animal  
Research, Commission on Life  
Sciences, Committee on Educational  
Programs in Laboratory Animal  
Science**

## **Laboratory Animal Welfare:**

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 Laboratory Animal Welfare Kathryn Bayne, Patricia V. Turner, 2013-09-02 Laboratory Animal Welfare provides a comprehensive up to date look into the new science of animal welfare within laboratory research Animals specifically considered include rodents cats and dogs nonhuman primates agricultural animals avian animals and aquatic animals The book examines the impact of experiment design and environment on animal welfare as well as emergency situations and euthanasia practices Readers will benefit from a review of regulations and policy guidelines concerning lab animal use as well as information on assessing animal welfare With discussions of the history and ethics of animals in research and a debate on contemporary and international issues this book is a go to resource for laboratory animal welfare *What Animals Want* Larry Carbone, 2004-04-01 Larry Carbone a veterinarian who is in charge of the lab animal welfare assurance program at a major research university presents this scholarly history of animal rights Biomedical researchers and the less fanatical among the animal rights activists will find this book reasonable humane and

novel in its perspective It brings a novel sociological perspective to an area that has been addressed largely from a philosophical perspective or from the entrenched positions of highly committed advocates of a particular position in the debate

The Welfare of Laboratory Animals Eila Kaliste, 2007-04-18 Animal welfare is attracting increasing interest worldwide but particularly from those in developed countries who now have the knowledge and resources to be able to offer the best management systems for their farm animals as well as potentially being able to offer plentiful resources for companion zoo and laboratory animals The increased attention given to animal welfare in the West derives largely from the fact that the relentless pursuit of financial reward and efficiency has led to the development of intensive animal production systems that offend the conscience of many consumers in those countries In developing countries human survival is still a daily uncertainty so that provision for animal welfare has to be balanced against human welfare Welfare is usually provided for only if it supports the output of the animal be it food work clothing sport or companionship In reality there are resources for all if they are properly husbanded in both developing and developed countries The inequitable division of the world's riches creates physical and psychological poverty for humans and animals alike in all sectors of the world Livestock are the world's biggest land user FAO 2002 and the population particularly of monogastric animals is increasing rapidly to meet the need of an expanding human population Populations of animals managed by humans are therefore increasing worldwide so there is the tendency to allocate fewer resources to each one

*Laboratory Animal Welfare* Cheryl Nyberg, Maria A. Porta, Carol Boast, 1994

*Laboratory Animal Husbandry* Michael W. Fox, 1986-06-01 This book demonstrates that good science animal care and humane ethics are consonant and complementary Many environmental and treatment related variables that can adversely affect both the animal and the validity of research are detailed Fox provides a critical review of present standards of laboratory animal husbandry and routine experimental procedures

**Handbook of Laboratory Animal Management and Welfare** Sarah Wolfensohn, Maggie Lloyd, 2013-04-15 This bestseller has been an essential book for all those working with laboratory animals since it was first published in 1994 This fourth edition retains all the classic features that have made it a must have reference including emphasis on best practice in order to improve animal welfare The contents have been thoroughly updated and reorganised to make sure it is a really practical book for day to day use in the laboratory The first section of the book covers principles applicable to all species for example husbandry handling and the education and training required by scientists and technical staff working with animals in the laboratory Later chapters focus on specific species or groups of species New to this edition Reflects changes in European legislation and their impact on national legislation Covers recommendations for the education and training of those carrying out animal experiments across Europe New chapters on ethical considerations and balancing animal welfare with science New information on environmental enrichment for laboratory animals Covers advancements in anaesthesia and analgesia and techniques Spiral bound for ease of use as a bench top reference This book is ideal for all personnel carrying out scientific procedures using

animals particularly during training and also for the new researcher It will also be essential reading for study directors designing research programmes animal technicians and veterinarians working with laboratory animal species Public Health Service policy on humane care and use of laboratory animals National Institutes of Health (U.S.). Office of Laboratory Animal Welfare,2002

**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>

**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 Animal Welfare Act and Farm Animal Research** Albert V. Griffin,2016 In 1966 Congress passed the Laboratory Animal Welfare Act P L 89 54 to prevent pets from being stolen for sale to research laboratories and to regulate the humane care and handling of dogs cats and other laboratory animals The law was amended in 1970 changing the name to the Animal Welfare Act AWA The AWA is administered by the U S Department of Agriculture s Animal and Plant Health Inspection Service Congress periodically has amended the act to strengthen enforcement expand coverage to more animals and activities or curtail practices viewed as

cruel among other things A 1976 amendment added Section 26 to the AWA making illegal several activities that contributed to animal fighting Farm animals are not covered by the AWA This book provides a background on the AWA and discusses selected animal welfare legislation It also reviews farm animal research the Meat Animal Research Center and the Animal Welfare Action Plan Management of Animal Care and Use Programs in Research, Education, and Testing Robert H. Weichbrod, Gail A. (Heidbrink) Thompson, John N. Norton, 2017-09-07 AAP Prose Award Finalist 2018 19 Management of Animal Care and Use Programs in Research Education and Testing Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century Following in the footsteps of the first edition this revision serves as a first line management resource providing for strong advocacy for advancing quality animal welfare and science worldwide and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field The book Emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program Provides a new section on Environment and Housing containing chapters that focus on management considerations of housing and enrichment delineated by species Expands coverage of regulatory oversight and compliance assessment and assurance issues and processes including a greater discussion of globalization and harmonizing cultural and regulatory issues Includes more in depth treatment throughout the book of critical topics in program management physical plant animal health and husbandry Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled They must adapt to the complexity of rapidly changing technologies balance research goals with a thorough understanding of regulatory requirements and guidelines and know how to work with a multi generational multi cultural workforce This book is the ideal resource for these professionals It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies Co publishers on the second edition are ACLAM American College of Laboratory Animal Medicine ECLAM European College of Laboratory Animal Medicine IACLAM International Colleges of Laboratory Animal Medicine JCLAM Japanese College of Laboratory Animal Medicine KCLAM Korean College of Laboratory Animal Medicine CALAS Canadian Association of Laboratory Animal Medicine LAMA Laboratory Animal Management Association and IAT Institute of Animal Technology Public Health Service Policy on Humane Care and Use of Laboratory Animals National Institutes of Health (U.S.). Office for Protection from Research Risks, 1986 *Laboratory Animal Welfare* , 1987 **Education and Training in the Care and Use of Laboratory Animals** , 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      **Public Health Service Policy on Humane Care and Use of Laboratory Animals** National Institutes of Health (U.S.). Office for Protection from Research Risks,2002      **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      Education and Training in the Care and Use of Laboratory Animals National Research Council,Division on Earth and Life Studies,Institute for Laboratory Animal Research,Commission on Life Sciences,Committee on Educational Programs in Laboratory Animal Science,1991-02-01 Federal law now requires that institutions provide training for anyone caring for or using laboratory animals This volume provides the guidelines and resources needed to coordinate a quality training program as well as to meet all legal requirements A core module for all personnel takes no more than four hours to present Most staff then proceed to one or more additional skills development modules including the species specific module that can be customized to any species in use at the institution the pain management module and the surgery module The volume provides content information for required topics from ethics to record keeping and lists sources of additional publications audiovisual programs and computerized teaching aids Included are Ready to use teaching outlines with detailed instructions for presenting material Practical guidelines on logistics covering scheduling budgeting and more Guidelines on how to design training for adults and how to work with investigators who may resist taking training courses This practical guidebook will be necessary for research institutions particularly for staff members responsible for training coordination      **Public Health Service Policy on Humane Care and Use of Laboratory Animals** National Institutes of Health (U.S.). Office of Laboratory Animal Welfare,2000

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