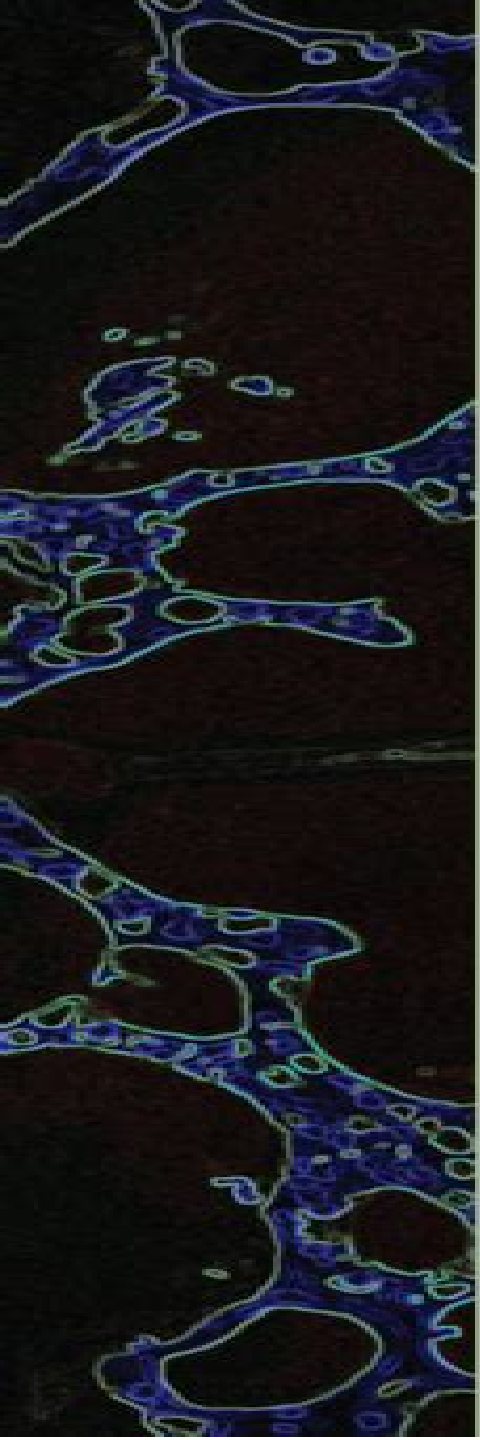




GUIDE

FOR THE CARE AND USE OF

LABORATORY

ANIMALS

Eighth Edition

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Guide For The Care And Use Of Laboratory Animals Eighth Edition

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Guide for the Care and Use of Laboratory Animals Committee for the Update of the Guide for the Care and Use of Laboratory Animals, Institute for Laboratory Animal Research, Division on Earth and Life Studies, National Research Council, 2010-12-27 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

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Guide for the Care and Use of Laboratory Animals ,2011 **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

The IACUC Handbook Mark A. Suckow, Sreekant Murthy, Julie M. Sharp, Troy Hallman, 2025-10-20 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 an invaluable resource 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 fourth edition comprehensively addresses the significant changes in the pertinent regulatory environment and interpretation of applicable federal laws regulations and policies It includes regulatory updates as well as best practices and new chapters on basic IACUC operations animals used in agricultural research and teaching invertebrates pandemic and disaster planning the Pacific Rim ethical review framework operational communications and workflow reduction of regulatory burden and research reproducibility and role of the IACUC It also adds new authors and editors widely respected in the field An essential resource for IACUC members university

administrators and compliance personnel laboratory animal veterinarians and scientific investigators whose work involves animal research this new edition ensures the book's continued acceptance as the standard reference in the field Chapter 39 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons CC BY 4.0 license Animal-centric Care and Management Dorte Bratbo Sørensen, Sylvie Cloutier, Brianna N.

Gaskill, 2020-10-14 The concept of the 3Rs Refinement Reduction and Replacement has been used as a framework for improving the welfare of laboratory animals for the last half century By establishing an animal centric view on housing and management Animal centric Care and Management Enhancing Refinement in Biomedical Research takes Russell and Burch's definition of Refinement as elimination of inhumanities and goes further Rather than fitting animals into experimental conditions it encourages readers to adjust conditions to better meet the behavioral emotional physical and physiological needs and preferences of the animals The team of expert authors from the fields of laboratory animal science ethology biology as well as animal training provide ideas for creating housing conditions and handling procedures that induce to the best of current abilities and knowledge a long term positive state of mind in the animals under our care This book is written for animal caretakers animal health technicians researchers animal facility managers laboratory animal veterinarians and anyone who engages in work with living experimental animals or is interested in the continuous improvement of laboratory animal welfare This interdisciplinary guide will act as a catalyst resulting in multiple viewpoints and fields collaborating to optimize laboratory animal welfare Handbook of Toxicology, Third Edition Michael J. Derelanko, Carol S.

Auletta, 2014-03-07 The Handbook of Toxicology Third Edition provides an updated practical reference source for practicing toxicologists in the pharmaceutical and chemical industries contract laboratories regulatory agencies and academia Written by experts in their specific toxicology fields the chapters provide both fundamental and applied information Topics range from General Toxicology to Genetic Toxicology Human Clinical Toxicology Histopathology Clinical Pathology Metabolism and Toxicokinetics Risk Assessment and more New to this edition Completely rewritten chapters covering immunotoxicology endocrine toxicology and reproductive and developmental toxicology providing a fresh perspective on these topics Addition of new chapters on Chemical Toxicology Pharmaceutical Toxicology Juvenile Toxicology and Safety Pharmacology Updated information dealing with Inhalation Toxicology Neurotoxicology and Regulatory Toxicology which has been consolidated into single chapters for each specialty A separate glossary with toxicological terms presented both alphabetically and by toxicological subspecialty For nearly 20 years this handbook has remained the only reference book of its kind designed to facilitate easy access to information related to the various toxicology specialties This updated edition of a popular reference book reflects current practices and the state of the science of toxicology **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 Principles of Animal Research for Graduate and Undergraduate Students Mark A. Suckow, Kay Stewart, 2016-11-16 Principles of Animal Research is the first publication to offer a broad look at animal research science for a student early researcher or technician Offering guidance for all aspects of the research experience including the research and development of a thesis model selection experimental design IACUC protocol preparation and animal husbandry and technical procedural needs the book is a necessary addition to every student technician and researcher s education Provides background material for students to understand the broader backdrop against which animal research is undertaken Includes ethical and regulatory information Covers commonly used animal models and the process to choose a model for biomedical research

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 *Clinical Laboratory Animal Medicine* Karen Hrapkiewicz, Lesley A. Colby, Patricia Denison, 2013-11-11 Clinical Laboratory Animal Medicine An Introduction Fourth Edition offers a user friendly guide to the unique anatomy and physiology care common diseases and treatment of small mammals and nonhuman primates Carefully designed for ease of use the book includes tip boxes images and review questions to aid in comprehension and learning The Fourth Edition adds new information on transgenic mice drug dosages techniques and environmental enrichment making the book a comprehensive working manual for the care and maintenance of common laboratory animals The book includes information on topics ranging from genetics and behavior to husbandry and techniques in mice rats gerbils hamsters guinea pigs chinchillas rabbits ferrets and nonhuman primates A companion website provides editable review questions and answers instructional PowerPoints and additional images not found in the book Clinical Laboratory Animal Medicine is an invaluable resource for practicing veterinarians veterinary students veterinary technicians and research scientists

The Design of Experiments in Neuroscience Mary Harrington, 2020-02-06 A student guide to neuroscience research including how to select a topic analyze data and present research [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 IACUC Administrator's Guide to Animal Program Management* William G. Greer, Ron E. Banks, 2016-02-22 The IACUC Administrator's Guide to Animal Program Management

supports IACUC administrators who assist with developing managing and overseeing a program of animal care and animal use It provides many options and possibilities for specific operational practices e g how to build a well functioning IACUC what a functional protocol template

Behavioral Biology of Laboratory Animals Kristine Coleman, Steven J. Schapiro, 2021-08-11 CHOICE Highly Recommended title 2022 This 30 chapter volume informs students and professionals about the behavioral biology of animals commonly housed in laboratory and other captive settings Each species evolved under specific environmental conditions resulting in unique behavioral patterns many of which are maintained in captivity even after generations of breeding Understanding natural behavior is therefore a critical part of modern animal care practices The descriptions data guidance resources and recommendations in this book will help the reader understand their animals better refine the care and treatment that they receive and improve the well being welfare and wellness of their animals The book is divided into three sections all focusing on aspects of the behavioral biology of animals found in laboratories and related research settings After five introductory chapters 25 chapters are dedicated to specific taxonomic groups including mice zebrafish zebra finches reptiles macaques while a concluding section of ethograms provides a centralized resource for those interested in understanding and potentially quantifying animal behavior The Behavioral Biology of Laboratory Animals will provide anyone working in maintenance care and or research programs that involve laboratory animals with information about the way the animals live in the wild and the way that they should live in captive research settings Many of the guidelines and recommendations will also be valuable to those managing and working with animals in other environments including zoological parks aquaria and sanctuaries

Haschek and Rousseaux's Handbook of Toxicologic Pathology, Volume 1: Principles and Practice of Toxicologic Pathology Wanda M. Haschek, Colin G. Rousseaux, Matthew A. Wallig, Brad Bolon, 2021-10-20 Haschek and Rousseaux's Handbook of Toxicologic Pathology recognized by many as the most authoritative single source of information in the field of toxicologic pathology has been extensively updated to continue its comprehensive and timely coverage The fourth edition has been expanded to four separate volumes due to an explosion of information in this field requiring new and updated chapters Completely revised with a number of new chapters Volume 1 Principles and the Practice of Toxicologic Pathology covers the practice of toxicologic pathology in three parts Principles of Toxicologic Pathology Methods in Toxicologic Pathology and the Practice of Toxicologic Pathology Other volumes in this work round out the depth and breadth of coverage Volume 2 encompasses Toxicologic Pathology in Safety Assessment and Environmental Toxicologic Pathology These two sections cover the application of toxicologic pathology in developing specific product classes principles of data interpretation for safety assessment and toxicologic pathology of major classes of environmental toxicants Volumes 3 and 4 provide deep and broad treatment of Target Organ Toxicity emphasizing the comparative and correlative aspects of normal biology and toxicant induced dysfunction principal methods for toxicologic pathology evaluation and major mechanisms of toxicity These volumes

comprise the most authoritative reference on toxicologic pathology for pathologists toxicologists research scientists and regulators studying and making decisions on drugs biologics medical devices and other chemicals including agrochemicals and environmental contaminants Each volume is being published separately Provides new chapters on digital pathology juvenile pathology in vitro in vivo correlation big data technologies and in depth discussion of timely topics in the area of toxicologic pathology Offers high quality and trusted content in a multi contributed work written by leading international authorities in all areas of toxicologic pathology Features hundreds of full color images in both the print and electronic versions of the book to highlight difficult concepts with clear illustrations Laboratory Animal and Exotic Pet Medicine Margi Sirois,2015-07-24 NEW Updated design features more high quality full color illustrations and a revised reader friendly layout with learning objectives and key points to make content easier to follow **The Laboratory Rat** Mark A. Suckow,F. Claire Hankenson,Ronald P. Wilson,Patricia L. Foley,2019-11-10 The third edition of The Laboratory Rat features updated information on a variety of topics including rats as research models for basic and translational research in areas such as genomics alcoholism diabetes metabolic syndrome obesity neuroscience spinal cord injury traumatic brain injury regenerative medicine and infectious disease New information related to the husbandry and veterinary care of rats is provided including topics related to nutrition reproduction anesthesia and surgery infectious and noninfectious disease and the care of surgical and other fragile models It is a premier source of information on the laboratory rat this book will be of interest to veterinary and medical students senior graduate students postdocs and researchers who utilize animals in biomedical research New chapters on the care of surgical and fragile models and on the use of rats in research areas such as alcoholism regenerative medicine spinal cord injury traumatic brain injury and others are included All chapters were written by scientific and veterinary experts This book condenses information from many sources on topics related to the care and use of rats in research It is the premier source of information on the laboratory rat **Ethics in Veterinary Practice** Barry Kipperman,Bernard E. Rollin,2022-07-08 Ethics IN Veterinary Practice An incisive examination of relevant and contemporary ethical issues facing veterinary practitioners students instructors and animal researchers In Ethics in Veterinary Practice Balancing Conflicting Interests a team of distinguished scholars delivers a foundational exploration of animal ethics and a guide to examining contemporary issues and dilemmas that arise regularly in veterinary practice The book offers comprehensive quickly accessible and up to date information on veterinary ethics with content devoted to unique issues by practice type The authors offer a primary resource for veterinary ethics useful for veterinarians faculty instructors senior undergraduates and veterinary students that focuses on recognizing and addressing real life ethical dilemmas and relevant philosophical discussions about the moral status of animals animal rights and interests Ethics in Veterinary Practice presents material on integrative medicine animal pain moral stress and the future of veterinary ethics Readers will also find A thorough introduction to a theoretical basis for veterinary ethics including discussions of animal welfare ethical theories and

legal issues Comprehensive explorations of clinical veterinary ethics including discussions of veterinary advocacy ethical dilemmas professionalism economic issues and medical errors Practical discussions of ethical concerns by practice type including companion animals equines and animals used for food In depth examination of emerging ethical concerns including animal use in veterinary education and animal maltreatment Perfect for practicing veterinarians veterinary students and veterinary technicians and nurses Ethics in Veterinary Practice Balancing Conflicting Interests will also earn a place in the libraries of instructors teaching veterinary ethics as well as biomedical and animal ethicists As veterinary medicine becomes more technologically and socially complex interest in ethics is growing Ethics in Veterinary Practice provides a needed reference from the North American perspective for anyone facing ethical dilemmas i e all of us Suitable for practitioners students and technicians the book supplies factual background and practical guidance for navigation accompanied by a clear ethical analysis of common dilemmas in all aspects of veterinary medicine Lisa Moses Veterinary Specialist in Internal Medicine Center for Bioethics Harvard Medical School USA Ethics in Veterinary Practice is a statement of both the influence of Bernie Rollin s lifetime work and of the coming of age of veterinary ethics From the moral status of animals to veterinary ethical dilemmas from medical errors to professionalism from economic issues to end of life decision making Ethics in Veterinary Practice leaves no stone unturned A must read for students and professionals alike Manuel Magalh es Sant Ana European Veterinary Specialist in Animal Welfare Science Ethics and Law University of Lisbon Portugal This book makes a valuable contribution to the subject hosting writing from a number of prominent scholars in the field The book bravely tackles several contemporary issues including veterinary corporations moral stress and medical errors as well as providing updated insights into the history of the profession and veterinary professionalism Throughout the complex and contested place of animals within our society is openly and thoughtfully explored from a veterinary perspective Vanessa Ashall European Veterinary Specialist in Animal Welfare Science Ethics and Law University of York UK

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