

Laboratory Animals in Research and Teaching

ETHICS, CARE, *and* METHODS



EDITED BY

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Laboratory Animals In Research And Teaching Ethics Care And Methods

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Laboratory Animals In Research And Teaching Ethics Care And Methods:

Laboratory Animals in Research and Teaching : Ethics, Care, and Methods Chana K. Akins, Sangeeta Panicker, Christopher L. Cunningham, 2005 Laboratory Animals in Research and Teaching contains valuable information that college and high school instructors will need to establish and maintain laboratories at their institutions The volume offers practical advice about administrative matters ethical issues and the guidelines and regulations for the care and feeding of animals The authors who include high school instructors researchers college instructors and veterinarians share lessons they have learned from their own experiences Their suggestions address large institutions as well as smaller ones where resources may be scarce The volume also includes useful appendixes that include classroom exercises case studies federal guidelines and a detailed listing of resources This will be an invaluable text for psychologists and teachers who seek innovative perspectives and methods for teaching and conducting research with animals

Handbook of the Teaching of Psychology William Buskist, Stephen F. Davis, 2008-04-15 The Handbook of the Teaching of Psychology is a state of the art volume that provides readers with comprehensive coverage and analysis of current trends and issues basic mechanics and important contextual variables related to effective teaching in psychology Uses concise and targeted chapters written by leading scholars in the field to explore a myriad of challenges in the teaching of psychology Employs a prescriptive approach to offer strategies and solutions to frequently occurring dilemmas Covers the gamut of current topics of interest to all current and future teachers of psychology

The Diabetic Foot Aristidis Veves, John M. Giurini, Marc L. Schermerhorn, 2024-05-30 The fifth addition of this classic text that focuses on the diabetic foot continues the tradition of the previous four editions More specifically it includes contributions from a distinguished panel of clinicians and researchers who have either participated in previous editions or are new who provide up to date information on the pathophysiology and management of diabetic foot ulceration As with the previous editions it is divided into three sections the first part focuses on clinical features and diagnosis the second on pathophysiology and the third on the management of diabetic foot problems The main emphasis of the clinical part is on the multidisciplinary approach that has been mainly developed by the world renowned Joslin Beth Israel Deaconess Foot Center which pioneered the management of diabetic lower extremity problems Also like previous editions the author panel includes diabetologists podiatrists vascular surgeons infectious disease specialists orthotists plastic and orthopedic surgeons the majority of whom work at the Joslin Beth Israel Deaconess Foot Center In addition the fifth edition not only describes the state of the art current methods in clinical practice but also includes a thorough update of all research progress during the last five years This updated edition of this timely text will be of significant value to all physicians and researchers with interest in a comprehensive understanding of the diabetic foot

Animals and Science Education Michael P. Mueller, Deborah J. Tippins, Arthur J. Stewart, 2017-06-15 This book discusses how we can inspire today's youth to engage in challenging and productive discussions around the past present and future

role of animals in science education Animals play a large role in the sciences and science education and yet they remain one of the least visible topics in the educational literature This book is intended to cultivate research topics conversations and dispositions for the ethical use of animals in science and education This book explores the vital role of animals with in science education specimens protected species and other associated issues with regards to the role of animals in science Topics explored include ethical curriculum and pedagogical dimensions involving invertebrates engineering solutions that contribute to ecosystems the experiences of animals under our care aesthetic and contemplative practices alongside science school based ethical dialogue nature study for promoting inquiry and sustainability the challenge of whether animals need to be used for science whatsoever reconceptualizing museum specimens cultivating socioscientific issues and epistemic practice cultural integrity and citizen science the care and nurturance of gender balanced curriculum choices for science education and theoretical conversations around cultivating critical thinking skills and ethical dispositions The diverse authors in this book take on the logic of domination and symbolic violence embodied within the scientific enterprise that has systematically subjugated animals and nature and emboldened the anthropocentric and exploitative expressions for the future role of animals At a time when animals are getting excluded from classrooms too dangerous too many allergies too dirty this book is an important counterpoint Interacting with animals helps students develop empathy learn to care for living things engage with content We need more animals in the science curriculum not less David Sobel Senior Faculty Education Department Antioch University New England

Applications of Biomedical Engineering in Dentistry Lobat Tayebi, 2019-08-27 This book offers readers a valuable overview of recent advances in biomedical engineering as applied to the modern dentistry It begins by studying the biomaterials in dentistry and materials used intraoperatively during oral and maxillofacial surgery procedures Next it considers the subjects in which biomedical engineers can be influential such as 3 dimensional 3D imaging laser and photobiomodulation surface modification of dental implants and bioreactors Hard and soft tissue engineerings in dentistry are discussed and some specific and essential methods such as 3D printing are elaborated Presenting particular clinical functions of regenerative dentistry and tissue engineering in treatment of oral and maxillofacial soft tissues is the subject of a separate chapter Challenges in the rehabilitation handling of large and localized oral and maxillofacial defects is a severe issue in dentistry which are considered to understand how bioengineers help with treatment methods in this regard Recent advances in nanodentistry is discussed followed by a chapter on the applications of stem cell encapsulated hydrogel in dentistry Periodontal regeneration is a challenging issue in dentistry and thus is going to be considered separately to understand the efforts and achievements of tissue engineers in this matter Oral mucosa grafting is a practical approach in engineering and treatment of tissues in ophthalmology which is the subject of another chapter Microfluidic approaches became more popular in biomedical engineering during the last decade hence one chapter focuses on the advanced topic of microfluidics technologies using oral factors as saliva based studies Injectable gels in endodontics is a new theme in dentistry

that bioengineering skills can advance its development specifically by producing clinically safe and effective gels with regeneration and antibacterial properties Engineered products often need to be tested in vivo before being clinical in dentistry thus one chapter is dedicated to reviewing applicable animal models in dental research The last chapter covers the progress on the whole tooth bioengineering as a valuable and ultimate goal of many dental researchers Offers readers an interdisciplinary approach that relates biomedical engineering and restorative dentistry Discusses recent technological achievements in engineering with applications in dentistry Provides useful tool to dental companies for future product planning specifically to biomedical engineers engaged in dental research *Laboratory Animals* Javier Guillen,2017-10-25

Laboratory Animals Regulations and Recommendations for the Care and Use of Animals in Research Second Edition is the only publication to offer a global compilation of standards on the care welfare and use of animals in research The book provides updated information that will be of great interest to professionals across laboratory animal science and biomedical research Users will find a broad picture of the regulations required in other areas of the world that will be essential to appropriately manage animal care and use programs Offers a worldwide view and global compilation of regulations guidelines and recommendations for laboratory animal research Provides insight into factors that play key roles in the regulatory framework for countries and geographic regions Compares and contrasts regulations in different regions Written in layman s terms to easily understand legislation and regulations *Animal Lives Matter* Raymond Wacks,2024-02-13

Animal Lives Matter provides a comprehensive analysis of the legal philosophical and ethical aspects of animal rights It argues that the subject extends beyond the matter of our obligations towards animals to include our wider responsibilities for protecting the environment Drawing on numerous moral political legal religious and philosophical theories including utilitarianism deontology rights theory social contractarianism and the capabilities approach the author meticulously examines the questions of sentience speciesism personhood and human exceptionalism Lucid nuanced and academically rigorous this important book will be an essential resource for scholars of law politics philosophy ethics as well as policy makers and the general reader *America Fooled* Timothy Scott,2006 Discusses the chemical imbalance theory pharmaceutical company ties with the FDA deceptive designs of antidepressant drug studies dangers of antidepressants and how to avoid depression Publisher s description [Animal Rights](#) Lisa Yount,2007 Praise for the previous edition an excellent first stop resource for research on animal rights well organized clearly written and a great starting point for research Recommended Choice comprehensive invaluable for reports on a popular current topic VOYA a very complete research guide that will be most useful at the high school and college level American Reference Books AnnualThe treatment of animals has become a controversial issue over the years with many questioning an animal s fundamental rights For some the issue of animal rights is merely an attempt to improve conditions of animals used for clothing food and other products while others believe animals should be granted the same legal rights afforded to humans *Animal Rights* Revised Edition

provides an overview of the history of the animal rights movement and reactions to it as well as the issues of animal experimentation conditions on factory farms laboratory animals animals in entertainment hunting and the actions of those involved in the animal rights debate New content includes such documents as the Animal Enterprise Terrorism Act of 2006 and contemporary court cases such as Animal Legal Defense Fund v Glickman These documents provide both past and present perspectives on the issue and plot a course for future debate about animal rights A comprehensive and up to date overview essay capsule biographies a large annotated bibliography a chronology of significant events organization and agency listings and a glossary all combine to make this an ideal first stop reference to animal rights Coverage includes Whether medical testing performed on animals is ethical Whether animals should be banned from circuses and other forms of entertainment How threats against investors in companies that participate in animal drug testing should be handled

An Introduction to Masculinities Jack S. Kahn, 2009-03-30 In the last thirty years there has been a tremendous growth in the academic inquiry to understand men in their experiences as men This growth is largely due to growing awareness of the problems that people face in trying to understand what it means to be masculine This text introduces students to the research theories and basic issues in the field of Men and Masculinities highlighting debates about the definition origin and the crisis in masculinity The author provides a framework for studying the field of masculinities incorporating feminist social constructionist and interdisciplinary perspectives Written in an accessible style An Introduction to Masculinities provides personal anecdotes and contemporary examples to make the theoretical concepts relevant to students lives The text also introduces students to leading contributors and experts whose work have informed the field The author gives the reader a context and structure by which they can critically understand and evaluate information about men and masculinities An Instructor's Manual is available at www.wiley.com/go/kahn Click here for more discussion and debate on the author's website <http://jackkahn.com> Wiley disclaims all responsibility and liability for the content of any third party websites that can be linked to from this website Users assume sole responsibility for accessing third party websites and the use of any content appearing on such websites Any views expressed in such websites are the views of the authors of the content appearing on those websites and not the views of Wiley or its affiliates nor do they in any way represent an endorsement by Wiley or its affiliates

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

Discovering Psychology Don H. Hockenbury, Sandra E. Hockenbury, 2010-01-27 A multimedia enhanced eBook integrates the text a rich assortment of media powered learning opportunities and a variety of customization features for students and instructors Worth s acclaimed eBook platform was developed by a cognitive psychologist Pepper Williams Ph D Yale University who taught undergraduate psychology at the University of Massachusetts

Information Resources for Institutional Animal Care and Use Committees, 2000 **Index Veterinarius**, 2004 *EBOOK: Psychology: The Science of Mind and Behaviour* Nigel Holt, Andy Bremner, Ed Sutherland, Michael Vliek, Michael Passer, Ronald Smith, 2015-02-16 Psychology The Science of Mind and Behaviour is here with a new fully updated and revised third edition Bringing new developments in the field and its renowned pedagogical design the third edition offers an exciting and engaging introduction to the study of psychology This book s scientific approach which brings together international research practical application and the levels of analysis framework encourages critical thinking about psychology and its impact on our daily lives Key features Fully updated research and data throughout the book as well as increased cross cultural references Restructured Chapter 3 on Genes Environment and Behaviour which now starts with a discussion of Darwinian theory before moving on to Mendelian genetics Core subject updates such as DSM 5 for psychological disorders

and imaging techniques on the brain are fully integrated Revised and updated Research Close Up boxes Current Issues and hot topics such as the study of happiness and schizophrenia intelligence testing the influence of the media and conflict and terrorism are discussed to prompt debates and questions facing psychologists today New to this edition is Recommended Reading of both classic and contemporary studies at the end of chapters Connect Psychology a digital teaching and learning environment that improves performance over a variety of critical outcomes easy to use and proven effective LearnSmart the most widely used and intelligent adaptive learning resource that is proven to strengthen memory recall improve course retention and boost grades SmartBook Fuelled by LearnSmart SmartBook is the first and only adaptive reading experience available today

Psychology Don H. Hockenbury, Sandra E. Hockenbury, 2008-12-19 More than any other psychology textbook Don and Sandra Hockenbury's Psychology relates the science of psychology to the lives of the wide range of students taking the introductory course Now Psychology returns in a remarkable new edition that shows just how well attuned the Hockenburys are to the needs of today's students and instructors Psychology began with a basic idea combine scientific authority with a narrative that engages students and relates to their lives From decades of experience teaching the Hockenburys created a book filled with cutting edge science and real life stories that draw students of all kinds into the course

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

Decoding the Ethics Code Celia B. Fisher, 2009 The updated guide that helps psychologists utilize ethical principles and standards to conduct their work activities avoid ethical violations and preserve and protect the fundamental rights and welfare of those they seek to help

Alternatives to Animal Use in Research, Testing, and Education, 1986

An Introduction to Ethical, Safety and Intellectual Property Rights Issues in Biotechnology Padma Nambisan, 2017-06-21 An Introduction to Ethical Safety and Intellectual Property Rights Issues in Biotechnology provides a comprehensive look at the biggest technologies that have revolutionized biology since the early 20th century also discussing their impact on society The book focuses on issues related to bioethics biosafety and intellectual property rights and is written in an easy to understand manner for graduate students and early career researchers interested in the opportunities and challenges associated with advances in biotechnology Important topics covered include the Human Genome Project human cloning rDNA technology the 3Rs and animal welfare bioterrorism human rights and genetic discrimination good laboratory practices good manufacturing practices the protection of biological material and much more Full of relevant case studies practical examples weblinks and resources for further reading this book offers an essential and holistic look at the ways in which biotechnology has affected our global society Provides a comprehensive look at the ethical legal and social implications of biotechnology Discusses the global efforts made to resolve issues Incorporates numerous case studies to more clearly convey concepts and chart the development of guidelines and legislation regulating issues in biotechnology Takes a straightforward approach to highlight and discuss both the benefits and risks associated with the latest biotechnologies

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