



# Animals In Research

**S Marginson**



## **Animals In Research:**

**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

**Why Animal Experimentation Matters** Ellen Frankel Paul, Jeffrey Paul, Animal experimentation has made a crucial contribution to many of the most important advances in modern medicine The development of vaccines for deadly viruses like rabies and yellow fever depended upon animal research and much of our basic knowledge about human health and physiology was discovered through the use of animals as well In spite of these gains animal rights activists have been zealous in communicating to the public and policymakers their view that the use of animals in medical research is morally wrong and should be severely curtailed or eliminated The activists arguments draw upon a range of disciplines and focus on both practical and ethical aspects of animal experimentation Advocates of animal experimentation have been slow to respond to these arguments Given that the worldwide toll of communicable diseases is still immense and that deadly new pathogens may emerge at any time in the future to menace human health failing to defend animal experimentation from the arguments of its opponents has disastrous implications A quick response to an unanticipated threat on the order of the AIDS epidemic is unimaginable absent a vigorous research establishment which in turn is dependent on animal proxies Why Animal Experimentation Matters is a first attempt by research scientists and moral philosophers to mount a convincing defense against animal rights enthusiasts Because opponents of animal experimentation come from a variety of intellectual backgrounds this defense is necessarily interdisciplinary as well In this collection of eight essays the authors scrutinize how animal experimentation actually functions in the laboratory the vital role that it plays in palliating and eradicating human and animal diseases and the moral justification for sacrificing animals for the betterment of human life The subjects covered in the essays include the moral status of animals and persons the importance of animals for advancing scientific knowledge the history of animal experimentation and of its detractors differing theoretical approaches of American and European animal experimentation regulations the heavily restrictive legislation promoted by animal rights activists and the threats posed to research and researchers by violent animal rights zealots Contributors include Baruch Brody H Tristram Englehardt Jr R G Frey Kenneth F Kiple and Kriemhild Cone Ornelas Adrian R Morrison Charles S Nicoll and Sharon M Russell Jerrold

Tannenbaum and Stuart M Zola This important anthology will be of interest to scientists philosophers individuals suffering from heritable or communicable diseases relatives of afflicted individuals and policymakers Ellen Frankel Paul is deputy director of the Social Philosophy and Policy Center professor of political science and philosophy at Bowling Green State University and editor in chief of the journal Social Philosophy both are professors of philosophy at Bowling Green State University Laboratory Animal Welfare ,1988 **Victims of Science** Richard Dudley Ryder,1975 Researching animal research Gail Davies,Beth Greenhough,Pru Hobson-West,Robert G. W. Kirk,Alexandra Palmer,Emma Roe,2024-01-09 Every year around 80 million scientific procedures are carried out on animals globally These experiments have the potential to generate new understandings of biology and clinical treatments They also give rise to ongoing societal debate This book demonstrates how the humanities and social sciences can contribute to understanding what is created through animal procedures including constitutional forms of research governance different institutional cultures of care the professional careers of scientists and veterinarians collaborations with patients and publics and research animals specially bred for experiments or surplus to requirements Developing the idea of the animal research nexus this book explores how connections and disconnections are made between these different elements how these have reshaped each other historically and how they configure the current practice and policy of UK animal research **The Experimental Animal in Biomedical Research** Bernard E. Rollin,2024-11-01 The Experimental Animal in Biomedical Research provides a concise useful survey of knowledge regarding laboratory animal care Volume I addresses researchers who use animals and focuses on how to maximize the welfare of animals used in research **Animal Research in a Global Environment** National Research Council,Division on Earth and Life Studies,Institute for Laboratory Animal Research,2011-09-09 Animal research will play an essential role in efforts to meet increasing demands for global health care Yet the animal research community faces the challenge of overcoming negative impressions that industry and academia engage in international collaborations in order to conduct work in parts of the world where animal welfare standards are less stringent Thus the importance of ensuring the international harmonization of the principles and standards of animal care and use cannot be overstated A number of national and international groups are actively working toward this goal The Institute for Laboratory Animal Research ILAR a program unit of the US National Research Council is committed to promoting both the welfare of animals used in research and the quality of the resulting science In 2008 to follow up on the 2003 event ILAR convened a workshop which brought together 200 participants from 17 countries Their mission was to identify and promote better understanding of important challenges in the conduct of animal research across country boundaries These challenges include the sourcing of animals the quality of veterinary care competent staff the provision of a suitable environment including nutritious food and potable water for animals and ongoing oversight of the animal program among others Animal Research in a Global Environment summarizes the proceedings of the 2008 workshop The impact of this 2008 workshop has extended beyond the oral

presentations conveyed in these proceedings It has been a vital bridge for diverse colleagues and organizations around the world to advance initiatives designed to fill gaps in standards professional qualifications and coordination of animal use

*The Scalpel and the Butterfly* Deborah Rudacille, 2015-12-15 An engrossing and eloquent study of the history and ethics of animal experimentation The heart of a pig may soon beat in a human chest Sheep cattle and mice have been cloned Slowly but inexorably scientists are learning how to transfer tissues organs and DNA between species Some think this research is moving too far too fast without adequate discussion of possible consequences Is it ethical to breed animals for spare parts When does the cost in animal life and suffering outweigh the potential benefit to humans In precise and elegant prose *The Scalpel and the Butterfly* explores the ongoing struggle between the promise offered by new research and the anxiety about safety and ethical implications in the context of the conflict between experimental medicine and animal protection that dates back to the mid nineteenth century Deborah Rudacille offers a compelling and cogent look at the history of this divisive topic from the days of Louis Pasteur and the founding of organized anti vivisection in England to the Nazi embrace of eugenics from animal rights to the continuing war between PETA and biomedical researchers and the latest developments in replacing reducing and refining animal use for research and testing **Animal Research** ,1991 Animals and Medicine Jack Botting, 2015-05-04 *Animals and Medicine The Contribution of Animal Experiments to the Control of Disease* offers a detailed scholarly historical review of the critical role animal experiments have played in advancing medical knowledge Laboratory animals have been essential to this progress and the knowledge gained has saved countless lives both human and animal Unfortunately those opposed to using animals in research have often employed doctored evidence to suggest that the practice has impeded medical progress This volume presents the articles Jack Botting wrote for the Research Defence Society News from 1991 to 1996 papers which provided scientists with the information needed to rebut such claims Collected they can now reach a wider readership interested in understanding the part of animal experiments in the history of medicine from the discovery of key vaccines to the advancement of research on a range of diseases among them hypertension kidney failure and cancer This book is essential reading for anyone curious about the role of animal experimentation in the history of science from the nineteenth century to the present Laboratory Animals Javier Guillen, 2013-09-23 *Laboratory Animals Regulations and Recommendations for Global Collaborative Research* is the only publication to offer a compilation of standards across the world in the care welfare and use of animals in research Timely in the new legislation in numerous regions of the world this book provides the information in easily accessible readable language For professionals across laboratory animal science and biomedical research *Laboratory Animals Regulations and Recommendations for Global Collaborative Research* provides a broad picture of the regulations required in other areas of the world and is 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 Saves valuable time researching different regional

legislation and regulations Provides insight into factors that play roles in the regulatory framework for countries and geographic regions Written in layman s terms to easily understand legislation and regulations      **The Use of Animals in Medical Research and Testing** United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology,1982      *The Ethical Case against Animal Experiments* Andrew Linzey,Clair Linzey,2017-12-21 At present human beings worldwide are using an estimated 115 3 million animals in experiments a normalization of the unthinkable on an immense scale In terms of harm pain suffering and death animal experiments constitute one of the major moral issues of our time Given today s deeper understanding of animal sentience the contributors to this volume argue that we must afford animals a special moral consideration that precludes their use in experiments The Ethical Case against Animal Experiments begins with the Oxford Centre for Animal Ethics s groundbreaking and comprehensive ethical critique of the practice of animal experiments A second section offers original writings that engage with and elaborate on aspects of the Oxford Centre report The essayists explore historical philosophical and personal perspectives that range from animal experiments in classical times to the place of necessity in animal research to one researcher s painful journey from researcher to opponent A devastating look at a contemporary moral crisis The Ethical Case against Animal Experiments melds logic and compassion to mount a powerful challenge to human cruelty      The Future of Animals, Cells, Models, and Systems in Research, Development, Education, and Testing ,1977      Brute Science Hugh LaFollette,Niall Shanks,1996 Questions about the scientific and moral status of biomedical experimentation are hotly debated in the media and in professional circles The outcome of this debate will shape future public health policy The authors expose the weaknesses in both the standard defense and standard criticisms of animal experimentation This thorough investigation of one of today s most fiercely debated questions yields some unexpected conclusions      **Guidelines on the Use of Living Animals in Scientific Investigations** ,1987      *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      **Animal Ethics in Animal Research** Helena Röcklinsberg,Mickey Gjerris,I. Anna S. Olsson,2017-10-26 The use of animals in research has always been surrounded by ethical controversy This book provides an overview of the central ethical issues

focusing on the interconnectedness of science law and ethics It aims to make theoretical ethical reasoning understandable to non ethicists and provide tools to improve ethical decision making on animal research It focuses on good scientific practice the 3Rs replacement reduction and refinement ethical theories applied to specific cases and an overview of regulatory issues The book is co authored by experts in animal research animal welfare social sciences law and ethics and provides both animal researchers and members of animal ethics committees with knowledge that can facilitate their work and communication with stakeholders and the public The book is written to provide knowledge not to argue a certain position and is intended to be used in training that aims to fulfil EU Directive 2010 63 EU

The Design of Animal Experiments Michael F. W. Festing, Michael Francis Wogan Festing, 2002 Where there is no alternative to the use of experimental animals in biomedical research it is important that experiments are well designed and correctly analysed in order to maximize the chance of getting scientifically valid results Experiments that use too few animals may fail to pick up biologically important effects while those that use too many or use them incorrectly may be subjecting them to unnecessary pain distress or lasting harm This book is aimed at all research scientists who use laboratory animals with the aim of helping them to design their own experiments more effectively and or to improve their ability to communicate with professional statisticians when designing more complex experiments It covers many aspects of experimental design such as choice of experimental animal which are not considered by most statistics textbooks Conversely it does not cover the more advanced designs or statistical methods so it should ideally be used in conjunction with more conventional statistics textbooks Page 4 of cover

*The Animal Research War* P. Conn, J. Parker, 2008-05-12 This thoughtful and surprising book analyzes the effect of animal extremism on the world's scientists their institutions and professional societies The Animal Research War traces the evolution of the animal rights movement profiles its leadership and reveals the truth behind university animal research

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