

ANIMAL TESTING: SCIENCE OR FICTION?

MPs, medical professionals and scientists unite in demanding a thorough evaluation of the utility of vivisection BY KATHY ARCHIBALD SCIENCE DIRECTOR OF EUROPEANS FOR MEDICAL PROGRESS

Most of us know that cancer, heart disease and stroke are the leading causes of death in the West. But many people would be surprised by the next biggest killer: side effects of prescription medicines. Adverse drug reactions kill more than 10,000 people a year in the UK (and more than 100,000 in the US), costing the NHS alone £466m per year.

The pharmaceutical establishment constantly reassures us that all drugs are tested for safety and efficacy on animals before they can be administered to humans. When challenged about the ethics of vivisection, their defence typically goes like this: 'Which do you think is more important: your child's life or a rat's?' Given this choice most people would thankfully sacrifice the rat.

But what if you were told that the current animal testing procedures are seriously flawed? Consider the following evidence:

- Arthritis drug Vioxx, withdrawn from the global market in September 2004, appeared to be safe and even beneficial to the heart in animals, but caused as many as 140,000 heart attacks and strokes in the US alone. The associate safety director of the US Food and Drug Administration (FDA) described it as the 'single greatest drug-safety catastrophe in the history of the world'.
- Many studies published in the scientific literature comparing drug side effects in humans and animals have found animal tests to be less predictive than tossing a coin. One review of human-animal correlation in drugs that had been withdrawn because of adverse reactions found that animal tests predicted the human side effects only six out of 114 times.

- Hundreds of drugs to treat strokes (eg, Cerestat, Maxipost, Zendra, Lotrafiban, gavestinel, nimodipine, ciomethiazole) have been found

safe and effective in animal studies and then injured or killed patients in clinical trials.

- Hormone-replacement therapy (HRT), prescribed to many millions of women because it lowered monkeys' risk of heart disease and stroke, increases women's risks of these conditions significantly. The chairman of the German Commission on the Safety of Medicines described HRT as 'the new thalidomide'. In August 2003 *The Lancet* estimated that HRT had caused 20,000 cases of breast cancer over the past decade in Britain, in addition to many thousands of heart attacks and strokes.

- Dr Richard Klausner, former director of the US National Cancer Institute (NCI), lamented: 'The history of cancer research has been a history of curing cancer in the mouse. We have cured mice of cancer for decades, and it simply didn't work in humans.' The NCI also believes

we have lost cures for cancer because they were ineffective in mice.

- Cigarette smoke, asbestos, arsenic, benzene, alcohol and glass fibres are

all safe to ingest, according to animal studies.

- Of 22 drugs shown to have been therapeutic in spinal cord injury in animals, not one is effective in humans.

- Of 20 compounds known not to cause cancer in humans, 19 do cause cancer in rodents.

- Dr Albert Sabin, the inventor of the polio vaccine, swore under oath that

Many studies published in the scientific literature comparing drug side effects in humans and animals have found animal tests to be less predictive than tossing a coin



Newspaper Articles On Animal Testing

Richard Bailey



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The NLM Technical Bulletin ,1986 **Animal Experimentation: Working Towards a Paradigm Change** Kathrin Herrmann, Kimberley Jayne, 2019-04-30 Animal experimentation has been one of the most controversial areas of animal use mainly due to the intentional harms inflicted upon animals for the sake of hoped for benefits in humans Despite this rationale for continued animal experimentation shortcomings of this practice have become increasingly more apparent and well documented However these limitations are not yet widely known or appreciated and there is a danger that they may simply be ignored The 51 experts who have contributed to *Animal Experimentation Working Towards a Paradigm Change* critically review current animal use in science present new and innovative non animal approaches to address urgent scientific questions and offer a roadmap towards an animal free world of science *A History of the Development of Alternatives to Animals in Research and Testing* John Parascandola, 2024-07-15 Growing public interest in animal welfare issues in recent decades has prompted increased attention to the efforts to develop alternative nonanimal methods for use in biomedical research and product testing In *A History of the Development of Alternatives to Animals in Research and Testing* the first book length study of the subject John Parascandola traces the history of the concept of alternatives to the use of animals in research and testing in Britain and the United States from its beginnings until it had become firmly established in the scientific and animal protection communities by the end of the 1980s This account of the history of alternatives is set within the context of developments within science animal welfare and politics The book covers the key role played by animal welfare advocates in promoting alternatives the initial resistance to alternatives on the part of many in the scientific community the opportunity provided by alternatives for compromise and cooperation between these two groups and the dominance of the Three Rs reduction refinement and replacement **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

Animal Testing Stephanie Watson, 2009-01-15 Because of the biological similarities between many animals and humans scientists can learn about diseases and find out how humans might react to medicines cosmetics chemicals and other products by testing them on animals first According to the Humane Society of the United States more than twenty five million animals are used in research testing and education each year Readers learn about the various philosophies on animal testing what tests are used and how they are performed The book presents the pros and cons of animal testing and some of the alternative methods to animal testing that scientists are developing today The Draize Eye-irritancy Test Janice C. Swanson, 1990 Animal Research Facilities Protection United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Research, and Foreign Agriculture, 1991 Alternatives to Animal Testing Christoph A. Reinhardt, 2008-11-20 Opinion leaders in science and politics examine findings and legislation in alternatives to animal testing Refine reduce replace These are the three demands that scientists have placed upon themselves in their

search for alternatives to animal testing Indeed much interdisciplinary research is being carried on today and new fields have emerged such as in vitro toxicology The three R s call for new scientific insights Moreover validation and acceptance strategies have to be adapted a process of much ongoing interest and vital concern to the pharmaceutical and cosmetic industries Researchers need to know exactly what has been achieved and accepted in alternatives to animal testing in science and politics In this book they have the opportunity to benefit from the knowledge and expertise of leading researchers and influential representatives of national and international regulatory authorities *ADAMHA News on Alcohol, Drug Abuse, and Mental Health* ,1987 **Alternatives to Laboratory Animals** ,2009 **Reading the Animal Text in the Landscape of the Damned** Mitchell, Les,2019-10-22 Reading the animal text in the landscape of the damned looks at the diverse texts of our everyday world relating to nonhuman animals and examines the meanings we imbibe from them It describes ways in which we can explore such artefacts especially from the perspective of groups and individuals with little or no power This work understands the oppression of nonhuman animals as being part of a spectrum incorporating sexism racism xenophobia economic exploitation and other forms of oppression The enquiry includes physical landscapes the law women s rights history slavery language use economic coercion farming animal experimentation and much more Reading the animal text in the landscape of the damned is an academic work but is accessible theoretically based but robustly practical and it encourages the reader to take this enquiry further for both themselves and for others **The Student Newspaper Survival Guide** Rachele Kanigel,2011-09-06 The Student Newspaper Survival Guide has been extensively updated to cover recent developments in online publishing social media mobile journalism and multimedia storytelling at the same time it continues to serve as an essential reference on all aspects of producing a student publication Updated and expanded to discuss many of the changes in the field of journalism and in college newspapers with two new chapters to enhance the focus on online journalism and technology Emphasis on Web first publishing and covering breaking news as it happens including a new section on mobile journalism Guides student journalists through the intricate multi step process of producing a student newspaper including the challenges of reporting writing editing designing and publishing campus newspapers and websites Chapters include discussion questions exercises sample projects checklists tips from professionals sample forms story ideas and scenarios for discussion Fresh new full color examples from award winning college newspapers around North America Essential reading for student reporters editors page designers photographers webmasters and advertising sales representatives **The Oxford Handbook of Sound Studies** Trevor Pinch,Karin Bijsterveld,2011-12-02 Written by the world s leading scholars and researchers in the emerging field of sound studies The Oxford Handbook of Sound Studies offers new and fully engaging perspectives on the significance of sound in its material and cultural forms The book considers sounds and music as experienced in such diverse settings as shop floors laboratories clinics design studios homes and clubs across an impressively broad range of historical periods and national and cultural contexts Science has

traditionally been understood as a visual matter a study which has historically been undertaken with optical technologies such as slides graphs and telescopes This book questions that notion powerfully by showing how listening has contributed to scientific practice Sounds have always been a part of human experience shaping and transforming the world in which we live in ways that often go unnoticed Sounds and music the authors argue are embedded in the fabric of everyday life art commerce and politics in ways which impact our perception of the world Through an extraordinarily diverse set of case studies authors illustrate how sounds from the sounds of industrialization to the sounds of automobiles to sounds in underwater music and hip hop to the sounds of nanotechnology give rise to new forms listening practices In addition the book discusses the rise of new public problems such as noise pollution hearing loss and the end of the amateur musician that stem from the spread and appropriation of new sound and music related technologies analog and digital in many domains of life Rich in vivid and detailed examples and compelling case studies and featuring a companion website of listening samples this remarkable volume boldly challenges readers to rethink the way they hear and understand the world

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

Ethics Dumping Doris Schroeder,Julie Cook,François Hirsch,Solveig Fenet,Vasanth Muthuswamy,2017-12-04 This open access book provides original up to date case studies of ethics dumping that were largely facilitated by loopholes in the ethics governance of low and middle income countries It is instructive even to experienced researchers since it provides a voice to vulnerable populations from the fore mentioned countries Ensuring the ethical conduct of North South collaborations in research is a process fraught with difficulties The background conditions under which such collaborations take place include extreme differentials in available income and power as well as a past history of colonialism while differences in culture can add a new layer of complications In this context up to date case studies of unethical conduct are essential for research ethics training

Using Animal Models in Biomedical Research Pierce K. H. Chow,Robert T. H. Ng,Bryan E. Ogden,2008 Animal models play crucial roles in the continuum of experimental activities that make up biomedical research This book fills this gap in knowledge and provides material not easily sourced by the average biomedical researcher such as current information biosafety animal protocol

design and histological pathological support **ILAR News** Institute of Laboratory Animal Resources (U.S.),1990

Critical Animal Studies and Social Justice Amber E. George,Anthony J. Nocella II,2022-03-03 An essential read for activists community organizers and justice scholars Critical Animal Studies and Social Justice Critical Theory Dismantling Speciesism and Total Liberation is a collection that combines scholarship and activism in nine ground breaking and provocative chapters The book includes contributions from around the world influenced by critical theory feminism social justice political theory media studies environmental justice food justice disability studies and Black liberation By promoting total liberation and liberatory politics these essays challenge the reader to think about new approaches to justice equity diversity and inclusion The contributors examine and disrupt many of the exclusionary assumptions and behaviors by those working toward justice and liberation encouraging the reader to reflect on their own thoughts and actions *Animal Rights* Clare Palmer,2017-05-15 Do animals have moral rights If so which ones How does this affect our thinking about agriculture and experimentation If animals have moral rights should they be protected by law These are some of the questions addressed in this collection which contains more than 30 papers spanning nearly 40 years of debates about animal rights It includes work by leading advocates of animal rights both in philosophy and law as well as contributions by those resolutely opposed to the very idea of animal rights A substantial Introduction surveys key arguments in the area and puts the papers in context

Eckert Animal Physiology David J. Randall,Warren Burggren,Kathleen French,Roger Eckert,2002 This classic animal physiology text focuses on comparative examples that illustrate the general principles of physiology at all levels of organisation from molecular mechanisms to regulated physiological systems to whole organisms in their environment This textbook is an authoritative and complete guide to the field of animal physiology which uses a threefold approach to teaching The Comparative Approach emphasises basic mechanisms but allows patterns of physiological function in different species to demonstrate how evolution creates diversity This approach encourages students to appreciate the underlying principles that govern physiological systems The Experimental Emphasis helps students to understand the process of scientific discovery and shows how our knowledge of physiology continually increases and finally the Integrative Approach presents information about specific physiological systems at all levels of organisation from molecular interactions to interactions between an organism and its environment n included

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