

The Principles Of Humane Experimental Technique Is It

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The Principles of Humane Experimental Technique: Timeless ...

The Principles of Humane Experimental Technique: Timeless Insights and Unheeded Warnings Michael Balls FRAME, Nottingham, UK Summary In the Principles of Humane experimental technique, Russell and Burch said that “the central problem is that of determining what is and what is not humane, and how humanity can be promoted without prejudice

The 3Rs and Humane Experimental Technique: Implementing ...

published the Principles of Humane Experimental Technique in which they laid out the principles of the Three Rs However, the Three Rs owed much to others It was UFAW and, in particular, UFAW’s Founder and Director, Major Charles Hume who identified the problem that needed to be

The Principles of Humane Experimental Technique: Is It ...

the principles of humane experimental technique reside in two concepts: humane science is the best science, and to practice hu-mane science one must incorporate the 3Rs: reduction, replace-ment, and refinement I list them alphabetically, rather than in the order suggested by The Principles, to

...

Not All “Rs” Are Created Equal - LABSG

humane treatment of animals Reduce the sum total of pain and fear inflicted upon animals by man To do so using sound principles of science and scientific inquiry Science informs, motivates and facilitates advances “The Principles of Humane Experimental Technique”

Science, Technology, & Human Values Recovering ^a The ...

duced, The Principles of Humane Experimental Technique (W M S Rus-sell and Burch 1959), is out of print as it has been, almost continuously, since publication of the first editions by Methuen & Co in 1959 (UK) and Charles C Thomas in 1960 (United States)¹ This article adopts a historical

Science-based assessment of animal welfare: laboratory animals

and treatment of disease, experimental techniques, anaesthesia, analgesia and euthanasia, alternatives to their use, and ethics The guiding principles are replacement, reduction and refinement (the Three Rs), first proposed by Russell and Burch in 1959 in their book The principles of ...

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in The Principles of Humane Experimental Technique written by Russell and Burch in 1959, which argues that the closeness of the species to humans doesn't necessarily best predict what will happen in humans Models that offer "high discrimination" often provide better predictive opportunity than ...

The First Forty Years of the Alternatives 8 Approach

1959 Russell and Burch's study is published as The Principles of Humane Experimental Technique, which develops the Three Rs approach at length The First Forty Years of the Alternatives Approach: Refining, Reducing, and Replacing the Use of Laboratory Animals 123

The design of animal experiments - CCAC

2 Replacement eg in-vitro methods, less sentient animals Refinement eg anaesthesia and analgesia, environmental enrichment Reduction Research strategy Controlling variability Experimental design and statistics Principles of Humane Experimental Technique (Russell and Burch 1959)

CHAPTER 3 Ethics of Experimental Research

CHAPTER 3/ Ethics of Experimental Research 47 *This version of the Ethical Principles of Psychologists and Code of Conduct (formerly titled Ethical Standards of Psychologists) was adopted by the American Psychological Association in August 1992 The revised version contains both substantive and grammatical changes from the Ethical

30.00 www.nature.com/gt REVIEW Use of animals in ...

The Principles of Humane Experimental Technique Methuen: London, 1959, Reprinted by UFAW, 1992: 8 Hamilton Close, South Mimms, Potters Bar, Herts EN6 3QD England Use of animals in experimental

Workshop 4 Title - EDQM

Achievements and Perspectives Regarding the Application of 3R Principles Lukas Bruckner ETS 123 European Convention for the Protection of Vertebrate Animals used for Experimental and Other Scientific Purposes (ETS 123) Article 6 A procedure shall not be performed ... if another scientifically satisfactory method, not entailing the

Adopting a Culture of Care by Implementing the 3Rs in ...

The Principles of Humane Experimental Techniques WMS Russell and RL Burch (1959) ©2012, Genentech Too often, experimental treatments that succeed in one mouse population do not work in other mice, suggesting that many rodent studies are flawed from the start

Scientific uses of animals: harm-benefit analysis and ...

The principles of humane experimental technique, first described by Russell and Burch in 1959, focus on minimising suffering to animals used for scientific purposes Internationally, as these principles became embedded in the various systems of oversight for the use of animals in ...

Introduction to Animal Use for

The Principles of Humane Experimental Technique • The AWA is the first federal law in the US that regulates animal use in research and is enforced by the Animal Plant Health Inspection Service, a branch of the United States Department of Agriculture (USDA)

Guiding Principles for Behavioural Laboratory Animal Science

Guiding Principles for Behavioural Laboratory Animal Science 10 | Page Committee³ The composition of these bodies can vary, but everyone (including the lay members and secretariat) must be aware of, and understand, the principles of the 3Rs These groups may go further than required by legislation: for example, they may limit the or

Reduce, Refine, Replace: The Failure of the Three R's and ...

Reduce, Refine, Replace: The Failure of the Three R's and the Future of Animal Experimentation Darian M Ibrahim^t The debate in animal ethics is defined by those who advocate the regulation of animal use and those who advocate its abolition¹ The animal welfare approach, which focuses on regulating

Ethics of animal research in human disease remediation ...

The humanest possible treatment of experimental animals, far from being an obstacle, is actually a prerequisite for successful animal experiments — Russell & Burch Principles of Humane Experimental Technique (1959)(Russell and Burch 1959) The use of animals in pathology, and related research/ teaching is pivotal to the advancement of

Human vaccines in the European Pharmacopoeia

eg humane endpoints Reduction eg historic data used to rationalise (single dilution) or remove test Replacement eg in vitro test or remove and replace by monitoring different parameters Basic principles remain today though solutions and approaches have evolved ...