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The domestic mouse, *Mus musculus* and
related subspecies (see Mice and Rats as

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(transgenes) into the mouse genome and the ability to delete genes, leading to what are known as “knockout ...

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Laboratory animals. People often disagree as to whether they think animal experiments

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are necessary, useful or justified, and to what extent non-animal alternatives are available.

We believe that every area of animal use should be judged individually and that replacing the use of animals with humane alternatives must be the principal goal.

Laboratory animals | Use of animals in

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The government is committed to the replacement, reduction, and refinement of the use of animals in research - the ' 3Rs ' . The use of animals in scientific research remains a vital tool in...

Animal testing and research - GOV.UK

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AAALAC International accreditation covers all animals used or intended for use in research, teaching, or testing. This includes traditional laboratory animals, farm animals, wildlife, and aquatic animals. Nontraditional animals, inclusive of invertebrate species, are also included where they are relevant to the institution's mission.

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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

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Laboratory Animals | ScienceDirect

More than 100 million animals are used in research and testing across the world each year, including around four million in the UK (Research animals infographic (PDF 632KB)). Animals used in scientific

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procedures can and do experience pain, suffering and distress, which can be severe. The RSPCA's primary aim is the replacement of animal experiments with humane alternatives worldwide.

Research animals | rspca.org.uk

Animal testing, also known as animal

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experimentation, animal research and in vivo testing, is the use of non-human animals in experiments that seek to control the variables that affect the behavior or biological system under study. This approach can be contrasted with field studies in which animals are observed in their natural environments or habitats.

Read Free Laboratory Animals In Research And Teaching Ethics Care And Animal testing - Wikipedia

The international journal of laboratory animal science, technology, welfare and medicine, *Laboratory Animals* publishes peer-reviewed original papers and reviews on all aspects of the care and use of animals in biomedical research. The journal

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promotes improvements in the welfare or well-being of the animals used, it particularly focuses on research that reduces the number of animals used or which replaces animal models with in vitro alternatives.

Laboratory Animals: SAGE Journals
Use of Laboratory Animals in Biomedical

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and Behavioral Research (1988) Animals for
Research: A Directory of Sources, Tenth
Edition and Supplement (1979)

Amphibians: Guidelines for the Breeding,
Care and Management of Laboratory
Animals (1974) Copies of these reports may
be ordered from the National Academies
Press (800) 624-6242 or (202) 334-3313

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Reptiles, amphibians, fish, rats, and mice make up about 85% of the testing population in any given year. The advantage of animal research is that it puts no human lives at risk. Experiments can take place to

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14 Pros and Cons of Animal Research –
Vittana.org

Laboratory Animals in Research and
Teaching contains valuable information that
college and high school instructors will need

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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.

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Animal welfare: Laboratory animals
Biomedical research leads to better
understanding of human and animal health
and disease. This research helps develop
treatment and cures that improve the lives of
ourselves and the animals around us.

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American Veterinary ...

Laboratory Animal Research is the official journal of the Korean Association for Laboratory Animal Science. KALAS was established in 1985 in order to discuss the knowledge of the experiment, and promote the science and technology in laboratory

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Laboratory Animal Research | Articles

For many years research animals have been used to answer important scientific questions including those related to human health. Animal models are often costly and time-consuming and depending on the

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research question present scientific
limitations, such as poor relevance to
human biology. Alternative models can
address some of these concerns.

The 3Rs | NC3Rs

Primates Across the world each year, tens of
thousands of monkeys - mainly macaques

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and marmosets - are used in research and testing. In the UK, around 3,000 monkeys are used annually. Much of this use is to develop and test the safety and effectiveness of potential human medicines and vaccines.

The use of monkeys in research | RSPCA
When Laboratory Animal Science as we

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Methods

know it today was under development in the second half of the last century, focus was placed at an early stage on the low standard of reporting in the scientific literature.

Guidelines for planning and conducting high-quality ...

A Wistar laboratory rat The Three Rs (3Rs)

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in relation to science are guiding principles
for more ethical use of animals in testing.

They were first described by W. M. S.
Russell and R. L. Burch in 1959. The 3Rs are:

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