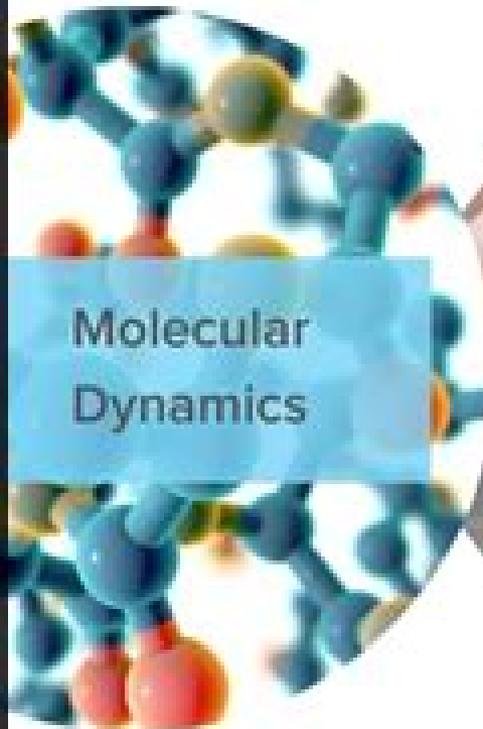
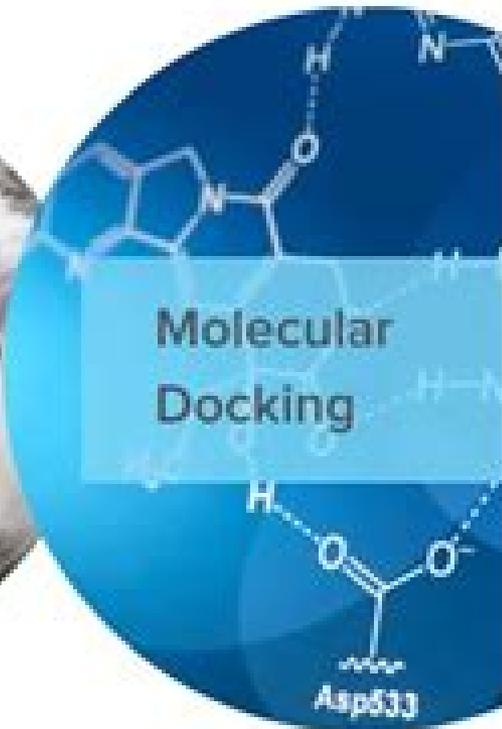




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# Alternatives To Animal Use In Research Testing And Education

**Victor M. Corman**



## **Alternatives To Animal Use In Research Testing And Education:**

*Alternatives to Animal Use in Research, Testing, and Education*, 1986      *Alternatives to Animal Use in Research, Testing, and Education. Summary* Congress of the U.S., Washington, DC. Office of Technology Assessment, 1986 With an estimated 17 22 million animals used in laboratories annually in the United States public interest in animal welfare has sparked an often emotional debate over such uses of animals Concerns focus on balancing societal needs for continued progress in biomedical and behavioral research for toxicity testing to safeguard the public and for education in the life sciences with desires to replace reduce and refine the use of laboratory animals In 1985 the United States Congress enacted three laws that dealt with laboratory animals including amendments to the Animal Welfare Act This assessment analyzes the scientific regulatory economic legal and ethical considerations involved in alternative technologies in biomedical and behavioral research toxicity testing and education Included is a detailed examination of federal state and institutional regulation of animal use and a review of recent developments in 10 other countries The report illustrates a range of options for congressional action in seven areas of public policy regarding animals using existing alternatives developing new alternatives disseminating research and testing information restricting animal use counting the numbers and kinds of animals used establishing a uniform policy for animal use within federal agencies and amending the Animal Welfare Act JN

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*Alternatives to Laboratory Animals*, 2009      **Animal Welfare Information Center Newsletter**, 1997      **Alternatives to Animal Use in Research, Testing, and Education**, 1986      *Alternatives to Animal Use in Research [sic], Testing, and Education*, 1986      *Progress in the Reduction, Refinement, and Replacement of Animal Experimentation* Michael Balls, A-M. Zeller, Marlies E. Halder, 2000 Hardbound New legislation enacted in many countries and regions of the world during the 1980s requires that laboratory animal use be reduced refined and replaced wherever possible for ethical and scientific reasons in line with the Three Rs concept put forward by W M S Russell and R L Burch in 1958 in *The Principles of Humane Experimental Technique* This Congress provided an opportunity for a celebration of the 40th anniversary of the publication of this book and for a coming together of many of those who are actively pursuing the implementation of the Three Rs in the interests of good science and humane science Current uses and future prospects for the use of laboratory animal procedures and non animal methods in the biomedical sciences are considered in five themes the development of replacement alternative methods the validation and regulatory acceptance of alternative test methods reduction alternatives and the testi

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web as is common in mathematics we can refer to a set by naming it with a letter for example  $s$   $f(x)$   $0$   $x$   $1$   $g$  definition 2 an object  $x$  is an element or member of a set  $s$  written  $x \in s$  if  $x$  satisfies the rule defining membership in  $s$  we can write  $x \notin s$  if  $x$  is not an element of  $s$  definition 3 the empty set or null set denoted or  $\emptyset$  is the

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web set theory is a branch of mathematical logic where we learn sets and their properties a set is a collection of objects or groups of objects these objects are often called elements or members of a set for example a group of players in a cricket team is a set

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