

1. Record Nr.	UNINA9910953849203321
Titolo	Use of laboratory animals in biomedical and behavioral research // Committee on the Use of Laboratory Animals in Biomedical and Behavioral Research, Commission on Life Sciences, National Research Council [and] Institute of Medicine
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1988
ISBN	9786610214938 9781280214936 1280214937 9780309564229 0309564220 9780585144160 0585144168
Edizione	[1st ed.]
Descrizione fisica	1 online resource (112 p.)
Disciplina	619
Soggetti	Animal experimentation Vivisection Laboratory animals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Use of Laboratory Animals in Biomedical and Behavioral Research -- Copyright -- Contents -- Preface -- Executive Summary -- PATTERNS OF ANIMAL USE -- BENEFITS DERIVED FROM THE USE OF ANIMALS -- ALTERNATIVE METHODS IN BIOMEDICAL AND BEHAVIORAL RESEARCH -- REGULATORY ISSUES -- USE OF POUND ANIMALS -- 1 Introduction -- HISTORICAL BACKGROUND -- Use of Animals in Research -- Concerns Over Animal Use -- PRESENT SITUATION -- 2 Patterns of Animal Use -- NUMBERS OF ANIMALS USED -- USE OF ANIMALS IN RESEARCH BY THE FEDERAL GOVERNMENT -- USE OF ANIMALS IN EDUCATION -- USE OF ANIMALS IN TESTING -- NEW TECHNOLOGIES AND FUTURE LABORATORY USE OF ANIMALS -- SUMMARY -- 3 Benefits Derived from the Use of Animals -- POLIO -- ACQUIRED IMMUNE DEFICIENCY SYNDROME -- TRANSPLANTATION -- CARDIOVASCULAR-

RENAL SYSTEMS -- NERVOUS SYSTEM -- Movement and Function -- Behavior -- Postnatal Development of the Visual Cortex and the Influence of Environment -- Memory -- Pain -- OTHER BENEFITS FOR HUMANS -- BENEFITS FOR ANIMALS -- SUMMARY -- 4 Alternative Methods in Biomedical and Behavioral Research -- RELATIONSHIPS AMONG LIFE FORMS -- ANIMAL MODELS -- ALTERNATIVES TO MAMMALS -- Nonmammalian Vertebrates -- Invertebrates -- Microorganism -- Cell and Tissue Cultures -- Human Tissues -- In Vitro Systems and Mathematical Models -- Refinements -- ALTERNATIVE METHODS IN TESTING -- SUMMARY -- 5 Regulatory Issues -- APPROACHES TO REGULATION -- FEDERAL REGULATIONS -- Legislation Passed in 1985: The Health Research Extension Act and the Food Security Act -- GOVERNMENT POLICY STATEMENTS -- Guide for the Care and Use of Laboratory Animals -- Public Health Service Policy on Humane Care and Use of Laboratory Animals -- Good Laboratory Practices Regulations -- STATE REGULATIONS -- APPROACHES TO REGULATION -- Granting Agency Approach to Regulation -- Self-Regulation -- EFFECTS OF REGULATIONS. Effects on Training and Education -- Effects on Experimental Results -- Effects on Direct Expense of Research -- Effects on the Animals -- ENFORCEMENT AND ENACTMENT OF REGULATIONS AND LAWS -- 6 Use of Pound Animals -- SUPPLY OF POUND ANIMALS -- REGULATIONS -- SCIENTIFIC CONSIDERATIONS -- BENEFITS -- COST CONSIDERATIONS -- CONCERN FOR THE ANIMALS -- 7 Conclusions and Recommendations -- RECOMMENDATIONS -- References -- Individual Statements by Members of the Committee on the Use of Laboratory Animals in Biomedical and ... -- ARTHUR C. GUYTON -- CHRISTINE STEVENS -- Appendix A 1896 Report of the National Academy of Sciences -- Appendix B Curricula Vitae of Committee Members -- Appendix C Invited Speakers at Committee Meetings -- Index.

---

#### Sommario/riassunto

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.

---