Primary References

In the primary reference material for the Institutional Animal Care and Use Committee, the annotated citations are mostly books and conference proceedings, with the exception of legislation, and cover 1985 to December 1998.

While there has been an attempt to cross-reference citations that can appropriately fit into more than one category, please search related categories for the desired information. For example, a book on rodent surgery may be found in "Rodents and Rabbits" and/or "Surgery". It may also be found in "General Laboratory Animal Care and Use" if a book contains information about several species including a chapter on rodent medicine.

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Agricultural Animals | Alternatives | Anesthesia, Analgesia, and Euthanasia | Animal Care and Use Committees
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General Laboratory Animal Care and Use | Genetics and Transgenics | Invertebrates | Laboratory Animal Housing
Legislation, Policies, and Guidelines | Medical and Veterinary Dictionaries | Occupational Safety | Philosophy and Ethics
Primates (Nonhuman) | Rabbits and Rodents | Surgery | Wild Animals

Agricultural Animals

NAL call number: SF1.F64 no.81
A manual of bacteriology methods for use with agricultural animal epidemiology.

NAL call number: SF61.B35
This book was developed as a textbook to emphasize the management of animals on farms and ranches, not just the production of animals and animal products. It highlights basic production and dwells on management skills and techniques.

NAL call number: SF61.B56
This is an introductory textbook for the college student. Provides a condensed, highly illustrated, easy-to-read version of animal science, while keeping in mind the needs of the instructor.

NAL call number: QL55.G8

Primary reference developed by and for those using agricultural animals in research and teaching. It is meant to serve as an independent reference for the care and use of agricultural animals. It provides information on the most common agricultural animals under a variety of teaching and research conditions. Referred to for biomedical research involving agricultural animals by the National Institutes of Health, Office of Protection from Research Risks and the Association for the Assessment and Accreditation of Laboratory Animal Care International.

NAL call number: SF768.2.S95H3

Reference values for over 100 physiologic or related variables. Included are body composition, fluid volumes, blood gas, hormone levels, hemodynamics, renal function, and more.

NAL call number: SF201.5.H45 1994

Methods for artificial insemination and embryo transfer in cattle. Much of the information is applicable to other agricultural species.

NAL call number: HV4704.W38 1990

Conference proceedings which include papers about regulatory perspectives, animal care and management, a summaries of workshops on specific species. Topics include handling and transport, stress, restraint, housing, and husbandry.


NAL call number: BJ52.5.J68

A two-volume set of conference proceedings that discuss agricultural animal welfare from ethical, technological, sociopolitical, and scientific perspectives. A balanced and informative introduction to the concept and applicability of animal welfare as it pertains to farm animals.

NAL call number: RB125.S79 1992

Proceedings of the Seventh Charles River International Symposium which was held in 1989. Reviews all aspects of swine care and use in biomedical research.

NAL call number: SF61.B63

An overview of the biological principles applicable to animal science with chapters on reproduction, genetics, nutrition, lactation, end breeding, and management of agricultural animal species. It is designed for the introductory animal
science courses.

NAL call number: RB125.C68
This book the proceedings of a 1985 conference on swine in biomedical research and is a three-volume set. Contains comprehensive coverage of swine as models for a variety of biomedical studies, such as alcoholism, diabetes, digestive disorders, organ transplantation, atherosclerosis, gingivitis, hypertension, exercise, hypotension, cancer, osteochondrosis, dermal healing and septic shock. This book was designed as a reference to be used as a data base for future investigations.

NAL call number: SF61.M35
Describes strategies designed to improve the efficiency, standards, housing, and care of farm animals and production. Emphasis is given to the welfare implications of modern husbandry techniques and promotes a humane attitude for those responsible for the care, management and welfare of farm animals.

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**Alternatives**

*Alternatives to Laboratory Animals*. Available from: Fund for the Replacement of Animals in Medical Experiments (FRAME), Eastgate House, 34 Stoney Street, Nottingham, NG1 1NB, England.
NAL call number: Z7994.L3A5
Quarterly journal covering all aspects of the development, introduction, and use of alternatives in animal research and testing. Includes some highly technical articles but many are comprehensible to the non-scientist. "Book Reviews" and "Selected Titles" sections provide current references for further reading on specific topics.

*ALTEX: Alternativen Zu Tierexperimenten*. Available from: ALTEX, Postfach 100125, D-78401 Konstanz
E-mail: info@altex.ch
http://www.altex.ch/
NAL call number: HV4915.A47 1996
Peer reviewed official journal of the Mitteleuropäischen Gesellschaft für Alternativmethoden zu Tierversuchen (MGAT). Articles are in German with English and German abstracts. Many articles describe new methods of replacement although reduction and refinement are also included.

NAL call number: QL55.A48 1993
A list of bibliographic citations for alternatives to the use of animals in teaching undergraduates.

NAL call number: RA1199.4.A54A53 1991
Based on the proceedings of a meeting held on Nov. 12-13, 1990 to discuss the report of the FRAME Toxicity Committee.

NAL call number: Z7994.L3A483
Literature citations and abstracts from the National Library of Medicine databases. Citations address Reduction, Refinement, and Replacement. They are grouped by study areas including carcinogenesis, cytotoxicity, dermal toxicity, pharmacokinetic and mechanistic studies, and others. Available in hardcopy and electronically from http://sis.nlm.nih.gov
The Johns Hopkins Center for Alternatives to Animal Testing. Available from: Center for Alternatives to Animal Testing, Johns Hopkins School of Public Health, 111 Market Place, Suite 840, Baltimore, MD 21202-6709, tel: (410) 223-1693, fax: (410) 223-1603, E-mail: caat@jhsph.edu
NAL call number: HV4701.J6
A quarterly newsletter that reports new developments in alternative approaches to whole animal studies for evaluating the safety of chemical products, funding opportunities, and meetings.

NAL call number: HV4704.A53 1992
Proceedings from the symposium.

NAL call number: R852.N65 1993
Contains chapters on alternatives to whole animal testing, specific in vitro examples in cosmetic and pharmaceutical industries, use of computational models, network models, magnetic resonance, physicochemical techniques, and alternatives in neurosciences, psychiatry, ethology, molecular biology, and genetics.

NAL call number: HV4928.U5
Revised policy for acute toxicity testing.

NAL call number: aHV4701.A94 no.1
A directory of audiovisuals, journals, newsletters, and other resources for information about alternatives in animal research, teaching, and testing.

NAL call number: QL51.A48
Alternatives in the use of animals for teaching, testing, and research are discussed in 37 chapters. Topics include research in neurochemistry, genetics, immunology, behavior, drug development, and cancer research. Determining appropriate animal numbers, unnecessary duplication of studies, and methodology are also examined.

NAL call number: RA1231.T7B45
This volume, the first in a series, is intended to aid in the rapid identification, validation, and implementation of alternative methods in toxicology.

NAL call number: QL55.R48
Discusses the care and use of animals and suggests alternative teaching strategies.

NAL call number: QL51.2.U6A48
Analysis of the scientific, legal, economic, and ethical issues regarding alternatives to animal use for toxicity testing, biomedical and behavioral research, and education. Advisory panelists represent groups with widely varying interests and opinions such as animal welfare organizations, academic institutions, private industry, government agencies, and the concerned public. A fifty page summary of this book is also available from the Office of Technology Assessment in Washington, DC.


Papers in this book formed the greatest part of The Humane Research Trust Conference entitled *Recent advances in the Use of in vitro Techniques*. Discussed are several in vitro techniques using human tissues and cell culture.


Describes and gives contact information about computer simulations, models, and audiovisuals useful in replacing live animals in some areas of medical education.


Contains the main presentations made at the symposium Alternatives to Animal Testing, held at the ETH Zurich, Nov. 30, 1992, reviewed and updated to include developments up to fall 1993. Gives international perspectives, discusses particular methods, validation of alternatives, and legislation.


This is a reprint of the classic 1959 book that introduced the concepts of replacement, reduction, and refinement as they relate to the use of animals for research, testing, and education.


Examines alternatives in light of the regulatory climate and evaluates new technologies.


Papers from a conference held in Heidelberg in 1986. All papers except one are in German.


A list of 290 audiovisuals for use as alternatives to the use of animals in education and research.


The proceedings of the 2nd World Congress on Alternatives and Animal Use in the Life Sciences held in 1996. Includes plenary lectures and papers on national and regional developments, animal welfare and refinement, transgenic animals, scientific procedures and humane endpoints, noninvasive methods, ethics, databases, education, toxicity testing, pharmacology, testing medical devices, antibody and blood products, antibody production techniques, and validation and acceptance of alternatives.
NAL call number: RC267.I48 v.5
This volume describes cell and organ culture systems that provide for the study of normal and neoplastic prostate and testes. The role of trace elements and hormones on the prostate are explored through in vitro techniques. Authors suggest ways in which in vitro testing can be used to study carcinogenesis, tumor prevention, and treatment.

Zinko, U.; N. Jukes, and C. Gericke (1997). *From Guinea Pig to Computer Mouse*. EuroNICHE, 11 Beckingham Rd., Leicester LE2 1HB, UK, 229p.; Tel/Fax +44(0)181 341 9115; E-mail: lynx@gn.apc.org
EuroNICHE (European Network of Individuals and Campaigns for Humane Education) provides this annotated catalog of audiovisuals, computer simulations, videodisks, and models for teaching anatomy, physiology, anesthesia, behavior, surgery, and other subjects taught in high school through graduate levels. Contact information and prices are given.

Covers ethical, legal, and historical issues in the development of alternative methods. Emphasis is on toxicity testing, vaccine development, in vitro methods, and validation. Contains timelines of animal welfare in the U.S. and U.K., tissue culture, in vitro toxicology, and methods of vaccine development.

**Anesthesia, Analgesia, and Euthanasia**

NAL call number: 41.8 Am3
A comprehensive list of chemical and physical methods of euthanasia, modes of action, special considerations, and the advantages and disadvantages of each.

NAL call number: QL55.A1L3
This document was prepared in response to European Commission Directive 86/609/EEC. The first two sections are in the 1996 issue and cover euthanasia objectives, signs of pain and distress, recognition of death, personnel training, equipment, carcass disposal, and acceptable and unacceptable methods of euthanasia. It also includes an extensive bibliography covering general euthanasia, fish, amphibians, reptiles, birds, rodents, rabbits, carnivores, large mammals, primates, and exotics. The third section, published in 1997, describes methods of euthanasia for each species group and euthanasia training materials.

NAL call number: SF77.F54 1996
Provides basic information about anesthesia to research technicians who have not received extensive training in this field. Sections emphasize the principles of pre- and post-operative care, anesthetic techniques and equipment, and pain recognition and alleviation.

NAL call number: SF914.G74 1990
Handbook for euthanasia of companion animals in animal shelters.

Covers the biology of pain, stress and distress, recognition, control, euthanasia, and recommendations for specific animals.


Covers pharmacology, monitoring, paralytic agents, post surgical care, equipment, and many other topics.


Multidatabase literature search resulting in 223 animal euthanasia citations. Some citations include abstracts. Citations cover methods used for companion, livestock, zoo, and laboratory animals. Many citations deal with grief over pet loss and the veterinarian/client relationship.


A guide to anaesthetic and sedative techniques for fish used in laboratory and field research.


This document provides recommendations for recognizing laboratory animal pain symptoms, minimization and control by use of analgesic and anesthetic agents, and post-anesthetic care.


Symposium proceedings with papers by many authors. Includes covers companion animals, reptiles and amphibians, and other species.

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### Animal Care and Use Committees


This newsletter covers a wide range of topics relevant to the scientific community and the IACUC. Topics include animal welfare regulations, Animal Care and Use Committees, agricultural animal care, alternatives, legislation updates, upcoming meetings, funding sources, new AWIC products and services, and scientific and general articles on animal care and use issues and methods. Subscriptions are free. Back issues are available on the AWIC website: [http://www.nal.usda.gov/awic](http://www.nal.usda.gov/awic)


Annotated bibliography of books and proceedings about animal care and use committees covering 1977 to 1991.


Proceedings from a workshop sponsored by the Canadian Council on Animal Care (CCAC) in February 1992. Topics
include researcher responsibilities, ethical concerns, psychology protocol reviews, media concerns, CCAC Alternatives Committee, peer review, occupational health and safety, training personnel, monitoring field studies, invertebrates, and workshop reports.

Describes the functions and activities of animal care committees. Includes sections entitled "Lay committee members: special people with special problems", "How to review protocols", and "Pain".

Excellent overview of Institutional Animal Care and Use Committee composition, function, proposal review, oversight of the animal care and use program, record keeping, sample forms, and special considerations. Useful review of NIH policies and the Animal Welfare Act as they pertain to the committee.

A guide for institutional administrators who supervise laboratory animal care and use programs. The manual addresses questions involving quality care, ethics, and legal requirements for animal care and use programs.

Proceedings from a conference held by the Scientists Center for Animal Welfare in 1988. "Community and Lay Members of Animal Care and Use Committees", "Animal Care and Use Committee Issues", and "Well-Being and Ethics" are three of the six sections contained in this volume. The community and lay member session was developed and presented entirely by active community and lay members of Animal Care and Use Committees.

Transcript of lectures about the concept of alternatives, their use in science, information resources, regulatory requirements, and ACUC involvement in pre-college education.


Basic recommendations as to the planning, and design of experiments using animals, and how this can effect the outcome of the experiment.

NAL call number: HV4704.A46 1989
Proceedings from NIH OPRR/OACU conference, November 16-17, 1989, Bethesda, Maryland.


NAL call number: HV4928.U85 1994
NIH Research Advisory Committee notebook outlining the NIH ACUC program, occupational safety, laws and regulations, ethical and scientific issues, alternatives, pain and distress, and other topics.

An overview of protocol review, investigators' concerns about ACUC's, and assessing and minimizing animal pain and distress.

NAL call number: HV4704.F5
The proceedings of a workshop entitled "Field Research Standards" held October 8, 1987.

Orlans, F.B.; R.C. Simmonds; and W.J. Dodds, eds. (1987). *Effective Animal Care and Use Committees*. *Laboratory Animal Science*, Special Issue (January 1987), 178p. Scientists Center for Animal Welfare, Golden Triangle Building One, 7833 Walker Dr., Suite 340, Greenbelt, MD 20770, E-mail: info@scaw.com
NAL call number: 410.9 P94
Papers from workshops sponsored by the Scientists Center for Animal Welfare focusing on effective review of biomedical experiments to ensure humane and appropriate use of animals. Includes chapters concerning the objectives and activities of animal care and use committees, protocol review and animal pain, and roles of committee members (including lay members).

NAL call number: HV4913.A54
Educational material for: Animal care and use programs.

Scientists Center for Animal Welfare (SCAW). *SCAW Newsletter*. Golden Triangle Building One, 7833 Walker Dr., Suite 340, Greenbelt, MD 20770, tel: (301) 345-3500, fax: (301) 345-3503, E-mail: info@scaw.com
NAL call number: QL55.N48
Quarterly newsletter that promotes the humane treatment of animals used in research. Articles frequently focus on animal care and use committees.

NAL call number: aKF3841.D57 1990
Description of requirements for animal care and animal care and use protocols for use by USDA, Agricultural Research Service researchers and veterinary staff.

NAL call number: HV4928.U56 1995
The Fiscal Year 1995 report to Congress on the Department of Defense animal care and use programs in research, education, and training for Defense and extramural projects.
Cats and Dogs

NAL call number: SF433.A85 1996
Covers pet behavior counseling and treatment of dog and cat behavioral problems such as aggression, fear, separation anxiety, and elimination.

NAL call number: SF985.C65 1997
Reviews infectious diseases, disease and treatment of each biological systems, oncology, dermatology, and population medicine.

NAL call number: SF427.B625 1994
Basic care, behavior, vaccinations, and disease recognition and treatment. Also covers conditions specific to puppies, males, females, first aid, emergency procedures, and poison control.

NAL call number: SF767.D6C3 1991
Reviews organ systems, nutrition, behavior, parasites, clinical biochemistry, and clinical pharmacology.

NAL call number: SF985.F45 1994
Covers the major organ systems, specific viruses, diagnosis and treatment, pharmacology, poisoning, therapeutics, and behavioral problems.

NAL call number: SF991.C76 1997
The purpose of this manual is to provide information on the correct use of diagnostic and therapeutic procedures in veterinary practice. It is a useful tool for veterinary technologists, veterinary students, as well as veterinarians and veterinary technicians in small animal practice or laboratory animal care facilities. The text is organized by procedures, with each described in a step-by-step manner.

NAL call number: QL813.C38D6 1989
Dissection manual illustrating cat anatomy and physiology.

NAL call number: SF991.E75 1996
A notebook of instructions and information sheets veterinarians may provide to clients. Covers system disorders, parasitism, poisoning, nutrition, surgery, and miscellaneous conditions like acupuncture and cryotherapy.

NAL call number: SF991.T48 1995
Covers clinical disease, systemic problems, infectious diseases, congenital defects, continuous rate infusion formulas, diagnosis, and treatment.

NAL call number: SF767.C29H83 1993
Contains chapters on physical examinations and organ systems with illustrations.

NAL call number: SF407.D6D64 1994
Chapters cover criteria for experimental animal selection, husbandry, breeding colony management, veterinary care, and special considerations including diseases and gene therapy.

NAL call number: SF447.M3455 1996
Reviews anatomy, preventative medicine, diagnostic medicine, home medical care, breeding and reproduction, and the role of the veterinarian. Written for the cat owner.

NAL call number: SF427.M473 1996
Reviews anatomy, preventative medicine, diagnostic medicine, home medical care, breeding and reproduction, and the role of the veterinarian. Written for the dog owner.

NAL call number: SF433.S38 1997
Covers behavioral problems dealing with elimination, aggression, reproduction, ingestion, neuroses and emotional reactions, destructiveness, disease, and miscellaneous topics.

NAL call number: SF447.S87 1994
Basic care, behavior, vaccinations, and disease recognition and treatment. Covers conditions specific to puppies, males, females, first aid, emergency procedures, and poison control.

NAL call number: SF985.H36 1993
Contains chapters on disorders, symptoms, and treatments.

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**Diseases and Parasites**

NAL call number: SF871 B83 1997
Describes normal and abnormal reproductive pathological conditions in mammals with color and black and white plates.

NAL call number: SF781.C365 1993
Diagnosis, treatment, and control of microbial diseases in farm and companion animal species.

NAL call number: SF748.N47
Comprehensive reference of current knowledge related to the diagnosis, treatment, toxicology, and pharmacology of domestic, exotic, and laboratory animals.

NAL call number: SF997.5.R4F796 1994
Describes diseases and other conditions requiring diagnosis, treatment, and prevention. Includes nutrition, reproduction, restraint and transport, anesthesia, and fluid replacement are some of the subjects covered.

NAL call number: SF997.5 R4F797 1995
Color plates useful in identifying disease conditions in reptiles and amphibians.

NAL call number: SF769.J82
Coverage of the pathology of diseases that infect tissues and organ systems.

NAL call number: SF996.5.H37 1995
Describes the biology and husbandry of the species, clinical procedures, diagnosis, specific conditions, and case reports.

NAL call number: SF871.M3
Useful to veterinary students, teachers, researchers, veterinarians, and pathologists. Contains comprehensive coverage of normal and abnormal anatomy and pathology of domestic mammalian reproductive systems.

NAL call number: SF996.5.O94 1992
Published for Laboratory Animals, Ltd., this is Laboratory Animal Handbooks; no. 12 which covers parasites typically found in laboratory animals and their treatment.

NAL call number: SF991.S598 1995
Focus is on dog and cat diseases.

NAL call number: SF810.A3V425 1996
Covers helminthology, entomology, and protozoology of domestic species. Intended for those involved in the diagnosis, treatment and control of parasitic diseases.
Ectotherms (Amphibians, Fish, Reptiles)

NAL call number: QL55.A1I43
Information on housing, husbandry, water quality, anesthesia, euthanasia, and surgery of amphibians.

NAL call number: QL55.A1I43
Covers husbandry, anesthesia, zoonoses, euthanasia, regulations, and fish use in biomedical research.

NAL call number: SF997.5.R4F78 1991 Fo
Covers diseases and surgery. Well-illustrated with color plates.

NAL call number: SF515.F79 1991
Diet composition and methods of feeding reptiles.

NAL call number: SF997.5.R4F795 1991 Fo
Some of the topics covered include husbandry, radiology, ophthalmic conditions, reproductive disorders, bacterial and fungal diseases, surgery, histology, anesthesia, euthanasia and necropsy, use of antibiotics, and hematology.

NAL call number: SF997.5.P4M47 1996
Briefly covers housing, feeding, and starting a reptile practice. More extensive information is provided on clinical procedures, diseases and treatments, and parasites in snakes, turtles, and iguanas. Appendices give specific treatment protocols, list of supplies, and normal blood values.

NAL call number: SF406.C5 1992
Conference proceedings covers housing, handling, nutrition, regulations and guidelines, and medicine of reptiles, amphibians, and fish.

NAL call number: SF515.H43 1995
Chapters cover physiology, anatomy, stress, nutrition, veterinary perspectives, husbandry, housing, immunology, metabolism, reproduction, and welfare of reptiles in zoos, laboratories, and by pet owners.

Formularies

NAL call number: SF916.5.V47 1996
Contains 1800 formulations of 700 drugs including abamectin, aciclovir, cefquinome, chlamydiosis vaccine, diazinon, doramectin, marbofloxacin, moxidectin, and pigeon pox vaccine. There is a section on prescribing for fish. Also included are drugs used in the treatment and control of parasitic infections.
NAL call number: RM145.B65 1990
Includes types of anesthesia and analgesia, their advantages and disadvantages, drug dosage tables, hormone maintenance and replacement dosage, and physiological solutions.

NAL call number: SF917.V48 1994
Prepared in the Department of Pharmaceutical Sciences of the Royal Pharmaceutical Society of Great Britain. Dosages of drugs for fish, reptiles, domestic and exotic animals, and invertebrates. 1650 drugs and dosages including auranofin, baquilooprim, bisacodyl, carprofen, ceftiofur, diclazuril, enalapril, enrofloxacin, eprubicin, famotidine, fluorometholone, gamolinolenic acid, isoretinoin, lufenuron, meloxicam, mesalazine, midazolam, misoprostol, mitozastrate, nalbuphine, olsalazine, omeprazole, phenylpropanolamine, romifidine and tilmicosin, and other drugs. Mention of proprietary preparations from 164 manufacturers or distributors.

NAL call number: SF917.H25 1995
A guide sponsored by the American College of Laboratory Animal Medicine provides dosages of analgesics, anesthetics, anti-infective agents, parasiticides and other drugs for 21 groups of laboratory animals. Dosage data is linked to literature references. The appendices summarize bleeding sites, blood volumes, endotracheal tubes, needle sizes and the toxicity of antibiotics for rodents and rabbits.

NAL call number: SF951.F67 1997
Describes veterinary medicine, disease, and drug dosages in horses.

Data on the biological or physico-chemical characteristics of restriction enzymes, reagents, vectors, Escherichia coli strains, culture media, antibiotics and techniques used in cloning and DNA hybridization.

NAL call number: SF917.M37 1996
Contains 740 compounds, including dosage, administration, and references, are given for all groups of vertebrate animals. They include analgesia, anesthesia, antibacterial agents, anticonvulsants. Generic and proprietary names are given.

NAL call number: SF917.T46 1994
Lists drugs with indications, forms, interactions, dosages, adverse effects, and contraindications. Useful for animal care staff and students.

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**General Laboratory Animal Care and Use**

NAL call number: HV4711.A587 1997
Reviews issues, problems, and assessments, and solutions in animal welfare from ethical and scientific perspectives. Some of the topics cover include pain and injury; fear and distress; hunger and thirst; health and disease; behavior; physiology; social conditions; human contact; economics; and legislation.
NAL call number: aQL55.B36 1994
Provides an overview of animal use regulations, alternatives, pain relief, euthanasia, surgery, and the services of the Animal Welfare Information Center.

NAL call number: RM301.25.C56 1994
Seventeen chapters detail drug administration; strain, sex, and age aspects of animals; housing and nutrition; experimental conditions such as feed restriction, fasting, and circadian rhythms; anesthesia; and stress.

NAL call number: QL55.B5
The first part of this document describes how to comply with Federal animal care regulations, euthanasia, complicating factors in animal care, biological hazards in the laboratory, good surgical practices, and research oversight. The second part describes how researchers should defend animal research and create good public relations in response to animal rights citizens critical of animal research.

NAL call number: SF406.H5 vol.1 and vol.2
The first volume contains information on mice, rats, guinea pigs and rabbits; and the second on dogs, cats and primates. Methods for restraint, injection routes, blood collection, and euthanasia are covered for each species.

NAL call number: SF996.5.H65 1998
Species include mice, rats, gerbils, hamsters, guinea pigs, chinchillas, rabbits, ferrets, and nonhuman primates. Each chapter covers housing, husbandry, diseases, surgical and handling techniques, euthanasia, therapeutic agents, and fluid collection. Also includes chapters on serologic testing and quality control, regulations and policies about animal care and use, organizations in laboratory animal medicine, and appendices with normal values.

NAL call number: SF604.E3
In response to Animal Welfare Act and Health Research Extension Act mandates for institutions to provide training to animal care and use staff, the Institute for Laboratory Animal Resources (ILAR) established a committee to develop this training manual. The manual contains ten course modules, a resources section, and instructions on developing and evaluating educational programs. The modules cover legislation and policies, ethical and scientific issues, alternatives, animal care and use committees, pain and distress, pain relief, surgery, euthanasia, husbandry, and species-specific overviews.

NAL call number Vol. 1: SF406 G85 1993
NAL call number Vol. 2: SF406 C36
A reference guide for the humane care and use of animals used in research, teaching, and testing. Volume 1 includes a discussion of the Canadian oversight committee system, laboratory and farm animal facilities, the environment, animal care, social and behavioral requirements of animals, restraint, occupational health and safety, pain control, euthanasia,
zoonoses and other diseases, drug dosages, and CCAC position statements. Volume 2 contains species-specific care chapters. Traditional laboratory and farm species are covered as are fish, reptiles, amphibians, and wild vertebrates in the field.


Various authors cover housing, husbandry, and experimental techniques for marsupials, bats, armadillos, rodents, rabbits, ferrets, dogs, cats, farm animals, nonhuman primates including shrews, birds, reptiles, amphibians, and fish.


Covers all aspects of laboratory procedures for laboratory technicians.


Laboratory training manual covers scientific terminology, basic animal anatomy and physiology, and common laboratory instrumentation. Common laboratory procedures, housing requirements, and restraint and handling techniques are discussed for typical laboratory species.


This volume covers some of the topics in Volume 1, but in more depth. It includes discussions of standard procedures related to management, health, basic science, and husbandry of many of the less common laboratory animal species, such as the amphibians and reptiles. Equipment related to experimental and surgical procedures is also covered.


Covers management and supervision, diagnostics, laboratory animal diseases, nutrition, equipment, anatomy, physiology, and experimental techniques. The AALAS series is designed to assist laboratory animal technical personnel prepare for certification examinations.

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**Genetics and Transgenics**


Produced for the International Council for Laboratory Animal Science.


Covers DNA sequence project management, proteins, similarity and homology, practical aspects, and analysis.


Data on the biological or physico-chemical characteristics of restriction enzymes, reagents, vectors, Escherichia coli strains, culture media, antibiotics and techniques used in cloning and DNA hybridization.

NAL call number: QH442.6.T69 1994
Describes methods used in transgenic research in farm and laboratory animals.

Invertebrates

NAL call number: QL364.2.A27 1990
Designed for high school and college animal behavior laboratories.

NAL call number: SF407.M37B68
Describes taxonomy, anatomy, housing, husbandry, and experimental techniques in squid, octopus, and nautilus.

NAL call number: SF407.M37I54 1995
Covers the biology, management, rearing, feeding, collecting, handling and restraint, transport, anesthesia, euthanasia, and diseases.

NAL call number: SF407.M37M37
Methods for maintaining and rearing marine invertebrates in the laboratory without immediate access to the sea. Part one contains general information, while part two contains information on specific animals or groups of animals such as sea anemones, mollusks, annelids, crabs, sea urchins. Covers animal care, handling, and food requirements.

Laboratory Animal Housing

A reference guide for the humane care and use of animals used in research, teaching, and testing. Volume 1 includes a discussion of the Canadian oversight committee system, laboratory and farm animal facilities, the environment, animal care, social and behavioral requirements of animals, restraint, occupational health and safety, pain control, euthanasia, zoonoses and other diseases, drug dosages, and CCAC position statements. Volume 2 contains species-specific care chapters. Traditional laboratory and farm species are covered as are fish, reptiles, amphibians, and wild vertebrates in the field.

NAL call number: QL55.U5 1987
Various authors cover housing, husbandry, and experimental techniques for marsupials, bats, armadillos, rodents, rabbits, ferrets, dogs, cats, farm animals, nonhuman primates including shrews, birds, reptiles, amphibians, and fish.

NAL call number: SF91.A5
Includes guidelines and references for housing, handling, and environmental enrichment for rodents, reptiles and
amphibians, chickens, rabbits, cats, dogs, nonhuman primates, sheep and goats, cattle, and swine.

Legislation, Policies, and Guidelines

- General References
- Animal Welfare Act and Amendments
- National Institutes of Health Legislation, Policies, and Guidelines
- Other Legislation, Policies, and Guidelines

General References


Professional guidelines for studies of wild birds in field and laboratory research. Covers permits, investigator impact, collecting and trapping, marking, transport, housing, minor manipulative procedures, and major manipulative procedures including surgery and euthanasia.


An excellent review of laws and policies, their histories, and their enforcement. Individually authored chapters include humane slaughter laws, laboratory animal welfare, animals and airlines, dogs, cats, horses, fighting and baiting, trapping and poisoning, marine mammals, birds, nonhuman primates, humane education, international animal protection, and animal protective organizations and law enforcement agencies. Appendices include the text of mentioned laws.


This book provides guidelines for those who wish to be pointed in the right direction but not to be overwhelmed by the details of law as it relates to animals.

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Animal Welfare Act and Amendments

Animal Welfare Act, amendments, and regulations are available from USDA, APHIS, Office of Animal Care, 4700 River Rd., Unit 85, Riverdale, MD 20737-1234 and at http://www.aphis.usda.gov/ac/

Animal Welfare Act as Amended (7 U.S.Code, 2131-2156)
The complete Animal Welfare Act including all amendments following the 1966 enactment.

Public Law 89-544 Act of August 24, 1966
Referred to as The Animal Welfare Act although that title is not mentioned within the law. It authorizes the Secretary of Agriculture to regulate transport, sale, and handling of dogs, cats, nonhuman primates, guinea pigs, hamsters, and rabbits intended to be used in research or "for other purposes". It requires licensing and inspection of dog and cat dealers and humane handling at auction sales.

Public Law 91-579 Animal Welfare Act of 1970
Expands the list of animals covered by the Act to include all warm-blooded animals determined by the Secretary of Agriculture as being used or intended for use in experimentation or exhibition except horses not used in research and farm animals used in production-related studies. Exhibitors are incorporated into the act and research facilities are defined. Retail pet stores, state and county fairs, rodeos, purebred dog and cat shows, and agricultural exhibitions are exempt from the act. The Secretary is directed to develop regulations regarding record keeping and humane care and treatment of animals in or during commerce, exhibition, experimentation, and transport. There is also mention of inspections, and appropriate anesthetics, analgesics, and tranquilizers. There are further regulations on dog and cat commerce.

Public Law 94-279 Animal Welfare Act Amendments of 1976
Focuses on animal transport and commerce. Health certification prior to transport of sale is required and must be performed by a veterinarian. Licenses, method of payment, and penalties for violations are discussed. This amendment also introduces and defines "animal fighting ventures" to the Act. Animals used in hunting waterfowl, foxes, etc. are exempt. It is illegal to exhibit or transport via interstate or foreign commerce animals used in fighting ventures such as dogs or roosters.

Also called "The Improved Laboratory Standards Act", this section clarifies what is meant by "humane care" by mentioning specifics such as sanitation, housing, and ventilation. It directs the Secretary of Agriculture to establish regulations to provide exercise for dogs and an adequate physical environment to promote the psychological well-being of nonhuman primates. It specifies that pain and distress must be minimized in experimental procedures and that alternatives to such procedures be considered by the principle investigator. It also defines practices that are considered to be painful. No animal can be used in more than one major operative experiment with recovery (exceptions are listed). The establishment of the Institutional Animal Care and Use Committee (IACUC) is introduced with a description of its roles, composition, and responsibilities to the Animal and Plant Health Inspection Service (APHIS). Also included is the formation of an information service at the National Agricultural Library to assist those regulated by the act in prevention of unintended duplication of research, employee training, searching for ways to reduce or replace animal use, and to provide information on how to decrease pain and distress. The final section explains the penalties for release of trade secrets by regulators and the regulated community.

Public Law 101-624 Food, Agriculture, Conservation, and Trade Act of 1990, Section 2503 - Protection of Pets
Establishes a holding period for dogs and cats at shelters and other holding facilities before sale to dealers. It requires dealers to provide written certification regarding each animal's background to the recipient. Specific items included on the certificate are mechanisms of enforcement, injunctions, and penalties for violation.

Code of Federal Regulations, Title 9, Chapter 1, Subchapter A - Animal Welfare
Commonly called "9CFR", the regulations developed by the U.S. Department of Agriculture describe how the Act and Amendments must be implemented. The Definitions section describes exactly what is meant by terms used in the legislation. "Animal", for example, specifically excludes rats of the genus Rattus and mice of the genus Mus as well as birds used in research. The Regulations section includes subparts for licensing, registration, research facilities, attending veterinarians and adequate veterinary care, stolen animals, records, compliance with standards and holding periods, and miscellaneous topics such as confiscation and destruction of animals and access and inspection of records and property. The bulk of the 9CFR subchapter is the third section which provides standards for specific species or groups of species. Included are sections for cats and dogs, guinea pigs and hamsters, rabbits, nonhuman primates, marine mammals, and the general category of "other warm-blooded animals". Standards include those for facilities and operations, health and husbandry systems, and transportation. The final section sets forth the Rules of Practice applicable to adjudicating administrative proceedings under Section 19 of the Animal Welfare Act. This is the 1994 version of the Code of Federal Regulations.

The final regulations developed to enact the 1985 amendments to the Animal Welfare Act. Extensive commentary is provided to respond to public comments about each of the proposed regulations. Often referred to as the "Preamble" to the Animal Welfare Act amendments of 1985, the explanations of the regulations are used to identify the intent of the
regulations published in Title 9, Code of Federal Regulations.

Federal Register, Vol. 55, No. 32, February 15, 1991, P. 6426-6505. Final Rule: Animal Welfare; Standards; Part 3. The final regulations developed to enact the 1985 amendments to the Animal Welfare Act concerning exercise in dogs and psychological well-being in nonhuman primates. Extensive commentary is provided to respond to public comments about each of the proposed regulations. Also referred to as the "Preamble" to the Animal Welfare Act amendments of 1985, the explanations of the regulations are used to identify the intent of the regulations published in 9CFR.

Federal Register, Vol. 58, No. 139, July 22, 1993, P. 39124. Final Rule: Random Source Dogs and Cats, and Federal Register, Vol. 58, No. 164, August 26, 1993, P. 45040. Final Rule: Correction, Random Source Dogs and Cats. The final rules amending the regulations under the Animal Welfare Act requiring pounds and shelters to hold and care for dogs and cats for at least 5 days (including one weekend day) before providing them to a dealer. Dealers must provide valid certification to anyone acquiring random source dogs and cats from them. Public comments and rationale for the regulatory decisions are discussed.

National Institutes of Health Legislation, Policies, and Guidelines


NAL call number: SF406.G95 1996
Public Health Service grantees and contractors and AAALAC-accredited (Association for Assessment and Accreditation of Laboratory Animal Care International) facilities are required to abide by the Animal Welfare Act and amendments and the recommendations found in the Guide and the PHS Policy. The Guide includes minimum requirements and performance standards for institutional policies, laboratory animal husbandry, veterinary care, physical plant, and special considerations such as farm animals. Unlike the Animal Welfare Act, the guide is used for all animal species.

PL 99-158 Health Research Extension Act of 1985, Section 495
Section 495, "Animals in Research", requires the Secretary of the Public Health Service (PHS) to develop and implement regulations for the humane care and use of animals in research by institutions (including Federal facilities) that receive PHS funding. The complete law can be found in U.S. Code, Title 42.

The Policy was established in accordance with the Health Research Extension Act of 1985 (PL 99-158). It must be used to supplement the Animal Welfare Act and amendments by PHS grantees and contractors. It includes policy on animal welfare assurance, composition and function of institutional animal care and use committees, information required to apply for PHS funding and review of research, record keeping and reporting requirements, and implementation by PHS.

Office for Protection from Research Risks. OPRR Reports: "Dear Colleague Letters". Letters that are published in OPRR Reports or mailed to PHS-funded institutions about OPRR policies. Topics include sources of antibody production, clarifications of reporting requirements, definitions and problems with expedited reviews, information about prompt reporting of problems, and the new addresses and phone numbers of OPRR personnel.

A guide for institutional administrators who supervise laboratory animal care and use programs. The manual addresses questions involving quality care, ethics, and legal requirements for animal care and use programs.


Excellent overview of Institutional Animal Care and Use Committee composition, function, proposal review, oversight of the animal care and use program, record keeping, sample forms, and special considerations. Useful review of NIH policies and the Animal Welfare Act as they pertain to the committee.

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**Other Legislation, Policies, and Guidelines**


Recommendations for humane euthanasia of vertebrates including acceptable methods, mechanisms of action, and special considerations.

**Code of Federal Regulations, Title 21, Chapter 1, Part 58, Good Laboratory Practice for Nonclinical Laboratory Studies.** Available from: Office of Regulatory Affairs, Food and Drug Administration, 5600 Fisher Lane, Rockville, MD 20857.

Administered by the Food and Drug Administration, these regulations prescribe good laboratory practices for conducting nonclinical laboratory studies that support research or marketing permits for products regulated by the Food and Drug Administration. These including food and color additives, animal food additives, human and animal drugs, medical devices for human use, biological products, and electronic products. Companion regulations for conducting studies relating to health effects, environmental effects, and chemical fate testing are found in **Code of Federal Regulations, Title 40, Chapter 1, Part 792, Good Laboratory Practice Standards** and are administered by the Environmental Protection Agency.

**Code of Federal Regulations, Title 40, Chapter 1, Part 792, Good Laboratory Practice Standards.** Available from: Environmental Protection Agency, 401 M St. S.W., Washington, D.C. 20460.

In accordance with Section 4 of the Toxic Substances Control Act, the Environmental Protection Agency issued these regulations describing laboratory practices for conducting studies relating to health effects, environmental effects, and chemical fate testing. Companion regulations for product testing regulated by the Food and Drug Administration are found in **Title 21, Chapter 1, Part 58 - Good Laboratory Practice for Nonclinical Laboratory Studies.**

**Federal Register, Volume 59, No. 127, Tuesday, July 5, 1994, P. 34496-34547. National Institutes of Health: Guidelines for Research Involving Recombinant DNA Molecules (NIH Guidelines).**

The NIH Guidelines specify practices for constructing and handling recombinant deoxyribonucleic acid (DNA) molecules and organisms and viruses containing recombinant DNA molecules. Includes topics such as biosafety, gene transfer, and institutional responsibilities.

**Federal Register, Volume 54, No. 75, Thursday, April 20, 1989, Good Laboratory Practice: Minor Amendment. Available from: Office of Regulatory Affairs, Food and Drug Administration, 5600 Fisher Lane, Rockville, MD 20857.**

The final rule discouraging toe clipping for laboratory animal identification is discussed as an amendment to the Food and Drug Administration's **Good Laboratory Practice Standards.**

**U.S. Code, Title 18, Public Law 102-346 Animal Enterprise Protection Act of 1992.**

Makes "physical disruption" of animal enterprises by property damage, theft, economic damage exceeding $10,000,
serious bodily injury or death a criminal offense. Resulted in a study conducted by the Attorney General and the
Secretary of Agriculture on the extent and effects of terrorism on enterprises using animals for food and fiber
production, agriculture, research, or testing and present their findings and recommendations to Congress.

Universities Federation for Animal Welfare (1990). *Guidelines on the Care of Laboratory Animals IV. Planning and

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**Medical and Veterinary Dictionaries**

NAL call number: R121.D73 1994
Covers anatomy, genetics, diseases, reference values for laboratory tests, tables of culture media, physiology,
biochemistry, and selected abbreviations used in medicine.

Co.: Dubuque, IA.
NAL call number: R123.F7
An illustrated guide explaining biomedical terminology.

NAL call number SF609.F32 1993
Veterinary terms from parasitology, pathology, pharmacology, epidemiology, animal and food hygiene in German,
English, French, and Russian.

PA, 330p.
NAL call number: R123.J24 1993

NAL call number: SF610.M38 1996
Four sections describe the basic foundation of veterinary language, body structure and systems, and animal industry
terms.

NY, 2194p.
NAL call number: Q193.M15 1994

York, NY, 2241p.
NAL call number: Q121.M29 1994
This volume is condensed from a 15-volume set.

NAL call number: R123.S678 1991
Contains comprehensive coverage of over 1,400 medical terms, hundreds of exercises and progress checks with
answers, and full-color anatomical art work.

NAL call number: R121.T144
A dictionary of medical terminology.

NAL call number: SF609.M5
An illustrated dictionary containing information on animal anatomy, physiology, diseases, medicine, and research.
Occupational Safety


NAL call number: Q183.B56 1993
This publication is issued by Centers for Disease Control and Prevention and the National Institutes of Health. Includes sections on biosafety principles, level criteria, levels for infectious agents and infected animals, risk assessment, types of agents, appendices, and a list of resources.

Philosophy and Ethics

NAL call number: HV4932.U73
An AMA White Paper that presents a concise overview of the pro-animal research perspective including background on the animal rights movement and justification for animal research.

NAL call number: HV4913.E84 1993
Proceedings of a National conference organized by the Institute of Biology's Biomedical Sciences and Education Divisional Committees in collaboration with the British Toxicology Society held in London, October 1992.

NAL call number: HV4711.A587 1997
Reviews issues, problems, and assessments, and solutions in animal welfare from ethical and scientific perspectives. Some of the topics cover include pain and injury; fear and distress; hunger and thirst; health and disease; behavior; physiology; social conditions; human contact; economics; and legislation.

NAL call number: HV4915.A64

NAL call number: R724.C67
Focuses on moral perplexities in biomedical research. The objective of this book is to make students aware of complex situations in biology and medicine that require moral reflection, judgement, or decision. The essays have been arranged in a debate-like format, with divergent viewpoints placed side-by-side, so that the reader can explore the strengths and weaknesses of alternative positions.

Geared towards the general public and students, this comprehensive encyclopedia briefly covers everything from animals in religion to euthanasia. Each topic is addressed by an expert in that area. Pain, distress, legislation, philosophy, and animal shelters are also covered. An concise introduction to the field.


Written by a journalist, this book carefully examines the viewpoints of researchers who study nonhuman primates and those who strongly oppose such research. The author a historical background, the arguments, and very balanced interviews and discussion of research benefits and flaws.


Prepared for the Councils of the National Academy of Sciences and the Institute of Medicine by the Committee on the Use of Animals in Research, this document seeks to answer the most commonly asked questions about animal research, and to describe some of the ways in which animal research has benefitted, and continues to benefit, human and animal health.


General reflections and considerations in regard to biomedical science, legislation, European guidelines, and controversies involving human or non-human subjects used in research.


A look at ethics practiced in the everyday lives of animal researchers and animal rights advocates. Why and how people deal with animal issues at sociological and psychological levels are discussed.


Asks similar questions as the first edition (1989), but uses different, more recent, articles in reply. Pro and con cases are made for animal rights, experimentation, wildlife protection, animals as food, and others.


An analysis of philosophy and morality of animal experimentation.


This book covers 16 case studies about ethical issues in human-animal interactions. Topics addressed include biomedical research, cosmetic safety testing, behavioral research, wildlife research, educational teaching, food and farming, companion animals, and religious rites.
NAL call number: HV4915.O75 1993
Addresses attitudes and ethical arguments, alternatives, IACUCs, protocol reviews, pain and suffering, testing, animals in education, and makes recommendations for policy changes.

NAL call number: HV4708.P55
A survey of the scientific literature addressing ethical and humane issues of animal research.

NAL call number: HV4711.A56 1989
Discusses animal rights, humaneness, morality, and ethical animal use by man.

NAL call number: HV4711.A53
Geared towards students, this book presents excerpts from articles by well-known philosophers and scientists that present pro- and con-views about whether animals have rights. Opposing viewpoints are expressed on issues including animal experimentation, agriculture, zoos, and hunting.

NAL call number: HV4708.R655 1992
Describes theoretical and practical issues related to animals and human morality.

NAL call number: HV4757.R65 1995
Addresses concepts and issues of farm animals welfare and industry methods of animal production.

NAL call number: QH442.6.R65 1995
A philosophically and scientifically informed discussion of the moral and social issues raised by genetically engineering animals and the real problems society must address to manage the technology.

NAL call number: QL55.R65
Raises questions about the morality of animal use in science and makes recommendations for change. Provides an overview of changing scientific attitudes towards animals.

NAL call number: R853.A53E86 1990
Vol. 1. A survey of scientific and ethical issues for investigators.

NAL call number: HV4708.R68 1994
This report outlines the current status of animal research, animal numbers, philosophical positions, evaluation of research, alternatives, pain and distress, public debate, education, and suggests policy proposals.

A philosophical look at morals, reason, and man's use of animals. This book argues for animal liberation from human use.


An analysis of psychology's use of animals, pros and cons of animal models, and ethical positions.


This book defined and defended arguments against human use of animals. The author is a philosopher who is frequently cited during debates on animal rights. A leading proponent of the animal rights movement, the author equates his view of current human attitudes toward animals with racism and sexism. The book includes a history of moral thought regarding animals and their treatment, and cites numerous instances of the use of stressful and painful procedures by researchers.


This book is a good introduction to legal, ethical, scientific, and health issues relating to laboratory animal care and use. Contains chapters on pain recognition and alleviation, handling, animal monitoring, surgical techniques, and more.


Expression of all views and orientations are provided in the attempt to provide tools that will help veterinary students and practitioners to participate in ethical debates confronting the veterinary profession.


Describes animal perception and human obligations to pets, wild animals, farm animals, and laboratory animals. Covers mind and suffering, hunger, thirst, and housing.


This book is a good introduction to legal, ethical, scientific, and health issues relating to laboratory animal care and use. Contains chapters on pain recognition and alleviation, handling, animal monitoring, surgical techniques, and more.

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**Primates (Nonhuman)**


Part of the American College of Laboratory Animal Medicine series.

Covers laws, taxonomy, morphology, behavior, environmental enrichment, conservation, genetics, reproduction, housing, nutrition, record keeping, medical management, breeding, and biosafety.


Sections cover pregnancy, the embryo, fetus, and neonate. Anatomy, physiology, endocrinology, and behavior are described in each section.

Covers species distribution in the wild, gestation, weaning, energy requirements, growth, and other factors necessary for rearing selected species of nonhuman primates. Species include some prosimians, New World monkeys, Old World monkeys, and gibbons and chimpanzees.

NAL call number: RA1199.5.P74N66 1993  
Pathology of nonhuman primates including chapters on immunodeficiency viruses, toxoplasmosis, retroviruses, congenital anomalies, and many others.

NAL call number: QL737.C22C36  
Proceeding from a conference held by the Scientists Center for Animal Welfare. Includes regulatory perspectives, biological perspectives, veterinary perspectives and financial perspectives concerning nonhuman primates.

NAL call number: HV4758.N3 1991  
The model used for nonhuman primate environmental enrichment programs at the National Institutes of Health. Includes designing, implementing, and evaluating programs as well as species-specific options.

NAL call number: QL737.P9P776 1998  
A review of the literature and suggested guidelines for meeting the psychological needs of primates as specified in the Animal Welfare Act. Covers essentials of programs, general care, special research conditions, prosimians, New and Old World monkeys, apes, and research needs. Also contains samples of nonhuman primate environmental enhancement plans.

NAL call number: SF407.P7T49 1991  
Based on a congress held by the American Psychological Association, this book addresses the issues and concerns of nonhuman primate psychological wellbeing.

NAL call number: QL737.P9095  
A species by species look at prosimian behavior, habitat, and diet in relation to anatomy.

NAL call number: QL737.P9H78  
Clearly explores the concepts of environmental enrichment and its connection with proper housing, care, and psychological wellbeing.

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**Rabbits and Rodents**

Geared to the pet owner. Covers housing, husbandry, diet, handling, illness, and breeding.

Illustrated manual of microsurgical techniques performed on the laboratory rat.

Proceedings from a 1989 conference. Articles discuss nutrition, cage space, toxicology studies, pain studies, recognition and alleviation of distress and stress, surgery, euthanasia, and mutant mice.

Describes the biology and husbandry of the species, clinical procedures, diagnosis, specific conditions, and case reports.

Produced for the International Council for Laboratory Animal Science. Describes colony management, basic monitoring techniques, and genetic variants of the laboratory rat.

Covers ferrets, rabbits, guinea pigs, chinchillas, and small rodents. Sections include diagnosis, surgery, basic anatomy and physiology, radiology, orthopedics, anesthesia, analgesia, and sedation.

Provides technical guidance for mouse embryo manipulations and gene therapy.

Species include mice, rats, gerbils, hamsters, guinea pigs, chinchillas, rabbits, ferrets, and nonhuman primates. Each chapter covers housing, husbandry, diseases, surgical and handling techniques, euthanasia, therapeutic agents, and fluid collection. Also includes chapters on serologic testing and quality control, regulations and policies about animal care and use, organizations in laboratory animal medicine, and appendices with normal values.

Contains sections on disease prevention, specific disease agents, and diagnosis and research complications of infectious agents on the animals and research objectives.
NAL call number: SF996.5.I54 1991
The Committee, under the auspices of the National Research Council, examined rodent disease prevention and individual disease agents and their effects on research. Chapters describe health surveillance programs, barrier programs, diseases of various anatomical systems, and diagnosis and research complications of infectious agents.

NAL call number: RC606.I45
This National Research Council committee gives comprehensive coverage of hereditary immunodeficiencies, induced immunodeficiencies, maintenance of rodents requiring isolation, mating systems for mutants, genetic mechanisms governing resistance or susceptibility to infectious diseases, and hematopoietic cell-surface antigens.


NAL call number: QL55.A1I43
Covers nontraditional rodents used in biomedical research including marmots, degus, and cotton rats.

NAL call number: QL55.A1L3
Describes monitoring frequency; sample size; viral, bacterial, mycoplasma, and fungal infections; parasitology; pathology; and necropsy procedures.

NAL call number: SF997.5.R2H36
Covers anesthesia, analgesia, surgical procedures, and drug dosages for rats, mice, gerbils, hamsters, guinea pigs, chinchillas, and rabbits.

NAL call number: SF966.5.B56 1994
Describes rabbit anatomy, physiology, housing, husbandry, genetics, and surgical procedures.

NAL call number: SF407.R6R63 1994

NAL call number: SF981.V48 1993
Includes management, breeding, biology, anesthesia, reference values, and use of animals in biomedical research.

A volume in *The Laboratory Animal Pocket Reference Series*. Includes sections on biological features, husbandry, management, veterinary care, experimental methodology, and resources. Diagrams show injection, sampling, and catheterization techniques. Drug dosages, antibody production, and safety testing are among the many procedures illustrated.

Describes strain specific behavioral responses to environmental enrichment, preferences for nesting material and nest boxes, and long term behavioral and physiological effects of enriched and standard housing conditions.

NAL call number: QL737.R666W38 1992
Spiral bound manual with photos and drawings that illustrate administration of substances, methods of obtaining body fluids, anesthesia and postoperative care, surgical technique, specific surgical operations, and miscellaneous techniques such as in vivo perfusions. Vital statistics, drug tradenames and sources, dose rates, identification methods, and other information is provided.

**Surgery**

NAL call number: SF991.C87
An extensive illustrated reference guide to general veterinary surgical techniques and some specific conditions. Contains over 50 chapters covering anatomy, physiology, and surgery of organ systems. Dogs, cats, ferrets, birds, and other small vertebrates are covered.

NAL call number: SF992.M68563
Guide to veterinary dental medicine and surgery. Chapters oral and periodontal anatomy, pathology, radiology, extraction techniques and management of associated complications, surgical management of oral neoplasms, periodontal and endodontic therapy, restorative dentistry, orthodontics and dental orthopaedics.

NAL call number: SF991.C76 1997
The purpose of this manual is to provide information on the correct use of diagnostic and therapeutic procedures in veterinary practice. It is a useful tool for veterinary technologists, veterinary students, as well as veterinarians and veterinary technicians in small animal practice or laboratory animal care facilities. The text is organized by procedures, with each described in a step-by-step manner.

NAL call number: SF77.F54 1996
This is a practical guide for researchers and technicians that covers pre- and post-operative care, management of anesthesia, special techniques, and regimens for common laboratory species. Also includes appendices with physiological data, equipment needs, manufacturers and suppliers of drugs, and how to calculate dilutions of anesthetic mixtures.
NAL call number: SF992.E92G45 1994  
Illustrated guide to dog and cat ophthalmic surgery.

NAL call number: SF991.G68 1992  
Small animal surgical techniques including soft tissue techniques are covered in color in this atlas.

NAL call number: SF996.5.R43 1992  
Covers the biology of pain, stress and distress, recognition, control, euthanasia, and recommendations for specific animals.

This book brings together 720 color photographs, drawings and radiographs relevant to veterinary dentistry and oral surgery in the dog, cat and horse.

NAL call number: SF992.E92G45 1994  
Contains chapters on ophthalmic instrumentation, surgical and operating room equipment, anaesthesia, ophthalmic surgery, and postoperative care. Cats, dogs, birds, and snakes are discussed.

NAL call number: SF911.S52  
An illustrated textbook for practitioners and students. Chapters focus on surgical principles, body systems, and organs.

NAL call number: RD29.E8  
Information on the selection and care of laboratory animals, including their housing and husbandry, anaesthesia, tissue surgery, microsurgery, regional surgery, post-operative care and biological measurement techniques.

NAL call number: SF911.N65 1994  
Describes surgical procedures for swine, cattle, goats, sheep. Useful in animal agriculture and biomedical institutions. Restraint, preoperative and postoperative procedures, anesthesia, and treatment of disease conditions, using fistulas and cannulas, and blood transfusions are discussed.

NAL call number: SF991.O88 1995  
Primarily deals with dog and cat surgery. Includes sections on anesthesia, digestive and cardiopulmonary systems, therapy, instrumentation, techniques, and more.

NAL call number: SF991.P38 1993
Describes wound healing, management, and surgery including cosmetic procedures.

NAL call number: 410.9 P94
This article describes surgery in neonatal rats.

NAL call number: SF772.6.L32
Explains the logic behind many laboratory procedures involving animals and describes how they are performed. Covers laboratory tests of blood, urine, organ function, bacteria, and immunity.

NAL call number: SF914.R49 1994
Conference proceedings covering pain and distress, anesthesia, analgesia, surgery, post surgical care, laparoscopy, and xenotransplants. Dogs, cats, rodents, rabbits, and farm animals are discussed.

NAL call number: QL55.L274
A basic reference for many aspects of research animal care and use. Of particular interest are chapters on experimental design, standards of surgery, drug administration, and non-surgical experimental procedures. Other sections include behavior, euthanasia, husbandry, and handling.

NAL call number: QL737.R666W38 1992
Spiral bound manual with photos and drawings that illustrate administration of substances, methods of obtaining body fluids, anesthesia and postoperative care, surgical technique, specific surgical operations, and miscellaneous techniques such as in vivo perfusions. Vital statistics, drug tradenames and sources, dose rates, identification methods, and other information is provided.

NAL call number: SF991.S59 1994
Contains chapters on diseases and treatments including reproductive, neurologic, respiratory, and endocrine disorders.

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**Wild Animals**

NAL call number: QL677.5.G75 1997
Professional guidelines for studies of wild birds in field and laboratory research. Covers permits, investigator impact, collecting and trapping, marking, transport, housing, minor manipulative procedures, and major manipulative procedures including surgery and euthanasia.

NAL call number: SF406.W55 1995
Papers from this conference proceedings discuss nonhuman primates in research, other nontraditional
mammals, fertility control, methods and ethics of trapping and manipulating wild animals, ethics of maintaining cetaceans in captivity, and use of positive reinforcement to improve animal care and research.


This book addresses the areas of medicine, surgery, pathology, physiology, feeding and housing, husbandry, stranding and rehabilitation, as well as the natural history of cetaceans, pinnipeds, manatees, sea otters, and polar bears. The book is designed to assist professionals involved in marine mammal health care, wildlife biologists who study these animals in their natural environments, and scientists conducting research on captive and wild marine mammals.


Proceedings of a session at the 1988 meeting of the Animal Behavior Society. The three sections include current regulations in the United States and Canada and methods for complying, general regulatory issues, and methods for improving conditions for captive animals.


Covers methods of restraint and handling of livestock, laboratory animals, wild animals, and companion animals. Chapters also focus on stress, thermoregulation, and medical problems.


Includes diseases, pathology, histology, symptoms, and treatment of all animal taxa.


Contains six parts covering basic husbandry, nutrition, exhibitry, population management, behavior, reproduction, research, and several appendices. Contains information about animal housing, veterinary care, drug dosages, euthanasia, and contraception.


The proceedings of a workshop entitled "Field Research Standards" held October 8, 1987.
Selected Software Providers

**Animal Resource Management (ARM)**

8840 Complex Dr., Suite 105, San Diego, CA 92123, phone: (619) 268-4639, fax: (619) 268-1262, e-mail: joe@armsd.com

Contains modules that automate animal ordering and receiving, tracking, billing, cost accounting, animal care and use protocol design with supporting documents, and drug record maintenance, billing, and inventory.

**Artac Seel Company**

Post Office Box 296, Basking Ridge, NJ 07920 USA, phone: (973) 425-8997, or 1-888-Just-Asc (U.S. only), fax: (973) 425-0584, e-mail: JustAsc@ArtacSeel.com

TriPhase

Colony, Toxicology and Pathology Data Management

TriPhase, the only single solution for non-clinical research is the combination of products formerly known as Tiger, TecTox and PathData. One vendor with over 180 information specialists, analysts and engineers with a history of solid information systems performance now supports the system customization, interfaces and maintenance. The following modules are available:

ColonyData and GenicData represent the most advanced complete animal facility management software. These modules offer inventory control, ordering cost accounting, animal service breeding systems, identification and license administration. This product has proven to be an efficient tool with high-quality data for logistics and research purposes.

ToxData and ReproData represent a toxicology and repro-toxicology system to support the total preclinical toxicology requirements including study planning, dynamic test article preparation, in-life and clinical pathology, pairing, caesarian section, breeding and skeletal findings.

PathData is an advanced and comprehensive software package designed by pathologists for accurate and highly efficient entry and evaluation of pathology data resulting from toxicology and carcinogenicity studies. Version 4.1C is enhanced with new features and components such as ImageBase, HistoBase and TissueBase.

**Computer Program for Reporting Health Monitoring Results in FELASA Recommended Format**

The Federation of European Laboratory Animal Science Associations (FELASA) has produced recommendations for health screening rodents and rabbits, and defined report formats, see *Laboratory Animals* 30: 193-208.

A Microsoft Excel 5.0 program has been written by Karen Davis, of the Department of Laboratory Animal Science, SmithKline Beecham Pharmaceuticals, to produce health monitoring results in the format recommended for breeding colonies (see *Laboratory Animals* (1994) 28: 1-12) and experimental units (see *Laboratory Animals* 30: 193-208). It enables current results to be entered, these are automatically combined with historical data to produce a standard report incorporating the latest and historical data. Any number of rooms/units can be reported. A copy of the program can be
obtained by sending a 3.5 inch disc to: Karen Davis, Department of Laboratory Animal Science, SmithKline Beecham Pharmaceuticals, Third Avenue, Harlow Essex, CM19 5AD, United Kingdom. Further information from the same address, or by email care of the editor of notes and comments commentsla@sbphrd.com

Topaz Technologies
13091 Pond Springs Rd., Suite 300, Austin, TX 78729, phone: (512) 249-8080, (800) 274-2273 (U.S. only), fax: (512) 249-8780, e-mail: sales@topazti.com
Produces Granite 4.0 Animal Resources Management Software with four components: facility management, animal records, cost accounting, and training records. The Facility Management System has accounting, animal orders, husbandry, protocol, and system administration components. The protocol component allows processing, creating, and submitting protocols, submission approval, and data management.

NTM Consulting Services
33625 Bardolph Circle, Fremont, CA 94555, phone: (510) 797-3445, fax: (510) 797-0126 e-mail: sirius@ntmcs.com
http://www.ntmcs.com/
Sirius, NTM's flagship product, is the complete integrated information management tool engineered to reflect the life cycle of animal research: Protocol management, animal procurement, cage card generation, animal and cage census, diagnostic lab & pathology, animal records, personnel training tracking, financials.
Sirius, started in 1994, is the result of a process re-engineering effort by NTM and Stanford University.

Vetstream
Vetstream plc, Langford Arch, Sawston, Cambridge CB2 4EG, UK, phone: +44 (0) 1223 500123, fax: +44 (0) 1223 506565, e-mail: enquiries@vetstream.com
http://www.vetstream.com
Produces CD-CANIS and CD-Felis, two interactive multimedia CD ROMs that provides clinical information on dog and cat diseases, treatments, symptom descriptions, likely diagnoses, and references. Can be searched by keyword, body system, anatomical area. Training material for veterinarians, graduate students, nursing staff, and others. Workbooks are also available.

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- European, Asian, and Australian Resources

North, Central, and South America, and The Caribbean Resources

American Association for Laboratory Animal Science (AALAS)

9190 Crestwyn Hills Drive
Memphis, Tennessee 38125
USA
TELEPHONE: (901) 754-8620
FAX: (901) 753-0046
E-MAIL: info@aalas.org
WORLD WIDE WEB: http://www.aalas.org
CONTACT: Michael Sondag, Executive Director
TYPE OF INSTITUTION/ORGANIZATION: Non-profit, professional.
RESOURCES/SERVICES: International in scope. Maintains the IACUC Training and Learning Consortium that provides workshops for new and existing IACUC members. Serves as a clearinghouse for collection and exchange of information on all phases of laboratory animal care and management, use and procurement of laboratory animals used in biomedical research. Educational materials, guides, and audiovisuals. Holds annual meetings. Publishes Contemporary Topics - a bimonthly journal with an expanded peer reviewed section on topics such as clinical management and husbandry. Also publish Laboratory Animal - a monthly, peer reviewed journal covering a diverse array of applied and experimental topics in the laboratory animal sciences.
REQUESTOR: Anyone.
COSTS: Charge for materials (members are charged a lower rate).

American College of Laboratory Animal Medicine

96 Chester Street
Chester, New Hampshire 03036
USA
TELEPHONE: (603) 887-2467
FAX: (603) 887-0096
E-MAIL: mwbaclam@gsinet.net
WORLD WIDE WEB: http://www.aclam.org
CONTACT: Dr. Melvin W. Balk, Executive Director
American Society of Laboratory Animal Practitioners

c/o ASLAP Coordinator
11300 Rockville Pike
Suite 1211
Rockville, Maryland 20852
USA
TELEPHONE: (301) 231-6349
FAX: (301) 231-6071
E-MAIL: aslap@aaalac.org
WORLD WIDE WEB: http://www.aslap.org
CONTACT: ASLAP Coordinator

TYPE OF INSTITUTION/ORGANIZATION: Nonprofit, professional society.
RESOURCES/SERVICES: ASLAP provides the following: (1) EDUCATIONAL SESSIONS: Dealing with practical problems, sessions are held during annual AVMA and AALAS meetings. Continuing education seminars are held every two years; (2) ASLAP NEWSLETTER: The official publication of ASLAP, is circulated quarterly to the membership and veterinary school libraries; and (3) DIRECTORY: Hand in hand with continuing education, the Society recognizes the importance of cooperation among members in the distribution of information. A list of members and their areas of interest is maintained and distributed to the membership. In addition, AVMA members are eligible for the ASLAP Excellence in Laboratory Animal Research Award.
REQUESTOR: Laboratory animal veterinarians.
COSTS: Dues are $45.00 if paid on or before March 31st of each year and $55.00 if paid on or after April 1st of each year. Student membership dues are $22.50 before April 1st and $27.50 after.

Animal Care

United States Department of Agriculture
Animal and Plant Health Inspection Service
4700 River Road, Suite 6D02
Riverdale, Maryland 20734-1234
USA
TELEPHONE: (301) 734-4980
FAX: (301) 734-4328
E-MAIL: ace@aphis.usda.gov
CONTACT: Deputy Administrator
TYPE OF INSTITUTION/ORGANIZATION: Federal government.
RESOURCES/SERVICES: Federal regulatory agency with oversight of the Animal Welfare Act and animal welfare regulations. Routinely inspects regulated facilities and provides guidance on animal welfare compliance issues. Can
provide copies of the USDA animal welfare regulations. Web site provides access to electronic Freedom of Information Act (FOIA) documents, full-text versions of the Animal Welfare Act, animal welfare regulations, Animal Care policies, IACUC checklists, Horse Protection Act information, and other information pertaining to the use of animals in non-agricultural commerce.

REQUESTOR: Anyone.
COSTS: Free.

Animal Welfare Information Center (AWIC)

United States Department of Agriculture
Agricultural Research Service
National Agricultural Library
10301 Baltimore Avenue
Beltsville, Maryland 20705
USA
TELEPHONE: (301) 504-6212
FAX: (301) 504-7125
CONTACT Us: http://awic.nal.usda.gov/contact-us
WORLD WIDE WEB: http://awic.nal.usda.gov
CONTACT: Jean Larson, Coordinator
TYPE OF INSTITUTION/ORGANIZATION: Federal government.
RESOURCES/SERVICES: Vast collection of serials, monographs, and audiovisuals within the National Agricultural Library (NAL). Documents may be borrowed through an interlibrary loan. For more information on document delivery, contact (301) 504-5755. The Center performs brief complimentary searches of AGRICOLA and other relevant databases. The Center can also assist you in formulating your own database searches, provides conference facilities and host training sessions, and can make available speakers and/or a tabletop exhibit for training sessions, conferences, and workshops. The Center produces bibliographies on topics such as stress, analgesia, animal testing alternatives, training materials and other relevant topics to animal welfare. Publishes the Animal Welfare Information Center Bulletin.
REQUESTOR: Anyone.
COSTS: All publications are available for free; literature searches on a cost recovery basis; NAL may charge for certain services such as providing photocopies, document delivery, etc.

Animales de Experimentación

La Revista Hispanoamericana
AP27-281 México, D.F. 06761
MEXICO
TELEPHONE: (525) 264-3887
FAX: (525) 574-3225
E-MAIL: ciro@servidor.unam.mx
CONTACT: Dr. Ciro Lomelí, Editor and Director
TYPE OF INSTITUTION/ORGANIZATION: Organization journal.
RESOURCES/SERVICES: The official journal of the Central America, Caribbean and Mexican Association For Laboratory Animal Science (ACCMAL) and the Mexican Association for Laboratory Animal Science (AMCAL, A.C.). A Spanish language journal that is distributed in the United States, Spain, and 20 Latin American countries. The mission is to disseminate scientific and technological advances related to animal production, responsible care and use of animals in scientific experiments, testing, and education. It also serves as a communication venue among Spanish-speaking individuals interested in biomedicine and laboratory animal medicine and science.
REQUESTOR: Anyone.
COSTS: Annual subscription is: Mexico-350 Pesos; U.S. and other countries $40.00 (US).

Applied Research Ethics National Association (ARENA)

132 Boylston Street, Fourth Floor
Boston, Massachusetts 02116
USA
TELEPHONE: (617) 423-4112
FAX: (617) 423-1185
EMAIL: info@primr.org
WORLD WIDE WEB: http://www.primr.org/
TYPE OF INSTITUTION/ORGANIZATION: Non-profit.
RESOURCES/SERVICES: A membership organization for those involved in the day-to-day application of ethical principles, governmental regulations, and other policies regarding research and clinical practice. ARENA's services include: (1) the sponsorship of national and regional meetings to review and shape research policy; (2) the dissemination of current information on research ethics issues, and the provision of opportunities for networking among members through a quarterly newsletter; (3) the distribution of the Animal Care and Use Committee Guidebook, which was published by ARENA/OPRR in cooperation with the National Institutes of Health; (4) assistance with the development of regional networks; (5) providing access to consultants expert in specific bioethical issues and administrative operations; (6) the publication of an annual comprehensive directory of ARENA members; (7) the preparation of commentary on and responses to relevant federal legislative or administrative initiatives; and (8) the ARENA Mailing List which is an electronic mailing list for members of the Applied Research Ethics National Association (ARENA). This is a closed list, available to members of ARENA only. Its purpose is to provide a forum for ARENA members to communicate with each other on matters related to the concerns of institutional review boards (IRBs) and institutional animal care and use committees (IACUCs).
REQUESTOR: Anyone but some activities are restricted to members.
COSTS: Varies.

Association For Assessment and Accreditation of Laboratory Animal Care International (AAALAC International)

11300 Rockville Pike, Suite 1211
Rockville, Maryland 20852-3035
USA
TELEPHONE: (301) 231-5353
FAX: (301) 231-8282
E-MAIL: accredit@aaalac.org
Avenue de Tervueren 402
1150 Brussels
BELGIUM
TELEPHONE: 32 2 761 66 78
FAX: 32 2 761 66 79
E-MAIL: accredit_europe@aaalac.org
WORLD WIDE WEB: http://www.aaalac.org
CONTACT: John Miller, D.V.M.
TYPE OF INSTITUTION /ORGANIZATION: Non-profit, professional.
RESOURCES/SERVICES: Like other animal welfare organizations, AAALAC International, the Association for
Assessment and Accreditation of Laboratory Animal Care, supports the use of animals to advance medicine and science when there are no non-animal alternatives, and when it is done in an ethical and humane way. When animals are used, AAALAC works with institutions and researchers to serve as a bridge between progress and animal well-being. This is done through a voluntary accreditation program in which research institutions demonstrate that they are not only meeting the minimums required by law, but are going the extra step to achieve and showcase excellence in animal care and use. Separate from accreditation, AAALAC also offers independent assessments of animal research programs to help institutions continue to improve their animal care and use practices.

REQUESTORS: Laboratory animal professionals.
COSTS: Varies according to services.

Canadian Association for Laboratory Animal Science

L'Association Canadienne Pour La Technologies des Animaux de Laboratoire
c/o CALAS/ACSAL National Office
PO Box 34122 RPO Fort Richmond
Winnipeg, Manitoba R3T 5T5
CANADA
TELEPHONE: (204) 261-7534
FAX: (204) 261-7619
E-MAIL: webmaster@calas-acsal.org
WWW: http://www.calas-acsal.org/
CONTACT: Bob Madziak
TYPE OF INSTITUTION/ORGANIZATION: Professional, non-profit.
RESOURCES/SERVICES: Produces educational materials, training videos, and a monthly newsletter (CALAS/ACSAL Newsletter). Hold annual meetings with workshops, seminars, and poster sessions.
REQUESTOR: Laboratory animal professionals.
COSTS: Varies according to materials.

Canadian Council on Animal Care (CCAC)

350 Albert Street, Suite 315
Ottawa, Ontario K1R 1B1
CANADA
TELEPHONE: (613) 238-4031
FAX: (613) 238-2837
E-MAIL: ggriffin@ccac.ca
WORLD WIDE WEB: http://www.ccac.ca
CONTACT: Dr. Gilly Griffin, Director of Guidelines Development
TYPE OF INSTITUTION/ORGANIZATION: Private, non-profit.
RESOURCES/SERVICES: Establishment and enforcement of standards and guidelines (in Canada) concerning the use of animals in research, testing and teaching. Maintains active, expert committees on all aspects of animal care and use. The Council's program is based on its major publication *Guide to the Care and Use of Experimental Animals*, Volume 1, 2nd Edition (1993) and Volume 2 (1984). More recent guidelines (available through their website are: animal use protocol review, transgenic animals, and choosing an appropriate endpoint in experiments using animals for research, teaching, and testing. CCAC conducts workshops and training courses on various aspects of the care and use of experimental animals, as well as the training of personnel working with these animals. The Council addresses alternative methods and conducts a course on tissue culture. Semi-annually publishes the newsletter, *Resource*.
REQUESTOR: Anyone.
COSTS: Varies according to materials.
Institute of Laboratory Animal Resources (ILAR)

National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, DC (District of Columbia) 20418
USA
TELEPHONE: (202) 334-2590
FAX: (202) 334-1687
E-MAIL: ILAR@nas.edu
WORLD WIDE WEB: http://dels.nas.edu/ilar/
CONTACT: Ralph Dell

TYPE OF INSTITUTION/ORGANIZATION: ILAR is a unit of the National Research Council's (NRC) Commission on Life Sciences (CLS). The NRC in the working arm of the National Academy of Sciences (NAS), a private, non-governmental, non-profit organization.

RESOURCES/SERVICES: Information on a wide variety of topics related to laboratory animals and emerging adjuncts and alternatives to animal use. Assignments of genetic identification for unique colonies. Guidelines that assist in the implementation of national policies or laws. Information to teachers and students about animals in science and careers in biology. ILAR's information database, which is published as Animals for Research: A Directory of Sources. This assists scientists in locating specific animals and models, including non-human primates. Produces ILAR Journal - a quarterly journal, available free-of-charge to institutional animal care and use committees, scientists, and veterinarians. Reports specific to non-human primates such as Laboratory Animal Management: Non-human Primates. Manages Animal Models and Genetic Stocks Information Exchange Program.

REQUESTOR: Anyone.
COSTS: Varies according to materials.

Laboratory Animal Management Association (LAMA)

P.O.Box 877
Killingworth, Connecticut 06419
USA
TELEPHONE: (412) 648-8903
FAX: (412) 648-8449
E-MAIL: portocal+@pitt.edu
WORLD WIDE WEB: http://www.lama-online.org/
CONTACT: Sharon Boag, Editor, LAMA Lines

TYPE OF INSTITUTION/ORGANIZATION: Professional.

RESOURCES/SERVICES: LAMA was organized in 1984 to promote the dissemination of ideas, experience, and knowledge, to encourage continued education, and to assist in the training of laboratory animal facility managers. It accomplishes this through: The LAMA Review - a quarterly publication dedicated to providing laboratory animal management information; LAMA Lines - a newsletter published six times a year informing the membership of what is going on in the organization; LAMA Membership Directory - an information resource for those in supervision through "networking" with others dealing with similar issues (member phone numbers, fax, and email addresses); LAMA Mid-year Forum - a day and a half event, seminar, workshop and tour of facilities or manufacturing plants; Annual Educational Program - a full day combination event, seminar, workshop and tour of facilities or manufacturing plants,

REQUESTORS: Members.
COSTS: $30.00 per year (US currency).
Laboratory Animal Welfare Training Exchange

Washington University School of Medicine
Division of Comparative Medicine
660 S. Euclid Avenue
St. Louis, Missouri 63110
USA
TELEPHONE: (314) 362-4516
FAX: (314) 362-6480
E-MAIL: nicole@dcm.wustl.edu
WORLD WIDE WEB: http://www.lawte.org
CONTACT: Nicole Duffee, D.V.M., Ph.D., President
TYPE OF INSTITUTION/ORGANIZATION: Non-profit.
RESOURCES/SERVICES: Holds conferences every two years for trainers to exchange information on their training programs. Past years conference proceedings are available on the LAWTE web site. Audio and video tapes are also available of conference presentations. Also maintains the LAWTE listserv for networking among trainers and training coordinators on issues and methods of training in the laboratory animal field.
REQUESTORS: Anyone; members receive other benefits.
COSTS: Membership dues are $10.00 annually; audiotapes are $12.00, videotapes are $15.00.

Latin American Society of Animal Welfare

Latin American Society on Animal Welfare C. M.
de Alvear 1760 , house 17, Tigre, B1648GGH
State of Buenos Aires
ARGENTINA
TELEPHONE: (+54) 11 4731 2017
E-MAIL: estolanimalwelfare@gmail.com
WORLD WIDE WEB: http://www.salvador.edu.ar/uaf3-2.htm
CONTACT: Prof. Dr. Leopoldo Estol; D. on P.H., President
TYPE OF INSTITUTION/RESOURCE: Professional.
RESOURCES: This organization was established in October 1998 to promote the teaching of animal welfare, bioethics, and ethology in university curricula.

National Library of Medicine (NLM)

8600 Rockville Pike
Bethesda, Maryland 20894
USA
TELEPHONE: (301) 496-6095 or 1-800-272-4787
FAX: (301) 402-1384
E-MAIL: custserv@nlm.nih.gov
WORLD WIDE WEB: http://www.nlm.nih.gov/
TYPE OF INSTITUTION/ORGANIZATION: Federal government.
RESOURCES/SERVICES: Library - extensive collection of serials, monographs, audiovisuals can be accessed by anyone. Computer based systems of information retrieval include MEDLARS, MEDLINE, CANCERLIT, AVLINE, TOXLIN, and Grateful Med.
REQUESTOR: Anyone.
COSTS: $7.00 for each filled interlibrary loan.
Office of Laboratory Animal Welfare

National Institutes of Health
RK1, Suite 1050, MSC 7982
6705 Rockledge Drive
Bethesda, Maryland 20892-7982 (For Express or Hand Delivered Mail, Use Zip Code 20817)
USA
TELEPHONE: (301) 594-2382
FAX: (301) 402-2803
E-MAIL: olaw@od.nih.gov
WORLD WIDE WEB: http://grants.nih.gov/grants/olaw/olaw.htm
CONTACT: OLAW
TYPE OF INSTITUTION/ORGANIZATION: Federal government.
RESOURCES/SERVICES: (1) Directs the development, implementation, and compliance oversight activities for the PHS Policy on Humane Care and Use of Laboratory Animals; (2) exercises oversight and negotiates Assurances of Compliance in all areas of laboratory animal research; (3) maintains liaison and coordinates policy implementation with components throughout PHS that conduct or support research involving laboratory animals; and (4) directs the development and implementation of educational and instructional programs and generates resource materials relating to the responsibilities of the research community for the appropriate care and use of laboratory animals. Provides regional workshops for IACUCs and scientists on various topics related to laboratory animals. Can provide guidance to IACUCs on issues involving the use of animals in research and compliance with Public Health Service policy and guidelines. On its website you can find: (1) an interactive tutorial for new animal care and use committee members, institutional administrators, investigators, animal care personnel, veterinarians, or others interested in learning about the PHS Policy on Humane Care and Use of Laboratory Animals; (2) sample annual reports, animal welfare assurances, semiannual review checklist, and semiannual report to the institutional official, to aid institutions in implementing the PHS Policy; and (3) the PHS Policy on Humane Care and Use of Laboratory Animals, policy guidance, articles, OPRR Reports, IACUC Guidebook, and other materials relevant to laboratory animal welfare.
REQUESTOR: Anyone.
COST: Most materials are free of charge except for national animal welfare workshops.

Public Responsibility in Medicine and Research (PRIM & R)

Fourth Floor
132 Boylston Street
Boston, Massachusetts 02116
USA
TELEPHONE: (617) 423-4112
FAX: (617) 423-1185
E-MAIL: info@primr.org
WORLD WIDE WEB: http://www.primr.org/
CONTACT: Joan Rachlin, Executive Director
TYPE OF INSTITUTION/ORGANIZATION: Non-profit.
RESOURCES/SERVICES: Through PRIM&R conferences, a wide range of issues regarding research using animals and the operation of IACUC's have been discussed. Extensive workshop manuals are provided to conference attendees. The annual IACUC conference also plays host to IACUC 101, a primer for new IACUC members and those wishing additional training in the workings of these committees.
REQUESTORS: Anyone.
COSTS: Conference proceedings are $30.00; fees for annual conferences vary.
Scientists Center for Animal Welfare (SCAW)

Golden Triangle Building One
7833 Walker Drive, Suite 340
Greenbelt, Maryland 20770
USA
TELEPHONE: (301) 345-3500
FAX: (301) 345-3503
E-MAIL: info@scaw.com
WORLD WIDE WEB: http://www.scaw.com
CONTACT: Lee Kruilisch, Executive Director
TYPE OF INSTITUTION/ORGANIZATION: Private, non-profit.
RESOURCES/SERVICES: Publications, including conference proceedings, training manuals, and materials from other organizations. Publications - extensive listing of publications of direct relevance to IACUC activities. Each contains proceedings from conferences sponsored by SCAW. Maintains IACUC-Talk - a moderated listserv for discussion of IACUC issues.
REQUESTOR: Anyone.
COSTS: Some services are free, meeting registration fees vary. Regular Membership $40.00, Student Membership $15.00, Foreign Membership $60.00.

European, Asian, and Australian Resources

Australian and New Zealand Council for the Care of Animals in Research and Teaching, Limited (ANZCCART)

P.O. Box 19
Glen Osmond SA 5064
AUSTRALIA
TELEPHONE: 61-8-8303 7393
FAX: 61-8-8303 7113
E-MAIL: anzccart@adelaide.edu.au
WORLD WIDE WEB: http://www.adelaide.edu.au/ANZCCART

P.O. Box 598
5064 Wellington
NEW ZEALAND
TELEPHONE: 64-4-472 7421
FAX: 64-4-473 1841
E-MAIL: anzccart@rsnz.org
WORLD WIDE WEB: http://www.royalsociety.org.nz/organisation/panels/anzccart/

CONTACT: R.M. Baker
TYPE OF INSTITUTION/ORGANIZATION: Private, non-profit.
RESOURCES/SERVICES: Quarterly newsletter, and other publications on euthanasia, animal care and use committees, well-being of research animals, alternatives for undergraduate education, laboratory animal surveys, tumor cell lines available in Australia, humane care and use of animals in research, and animal pain.
REQUESTOR: Anyone.
COSTS: Varies according to materials.

Baltic Laboratory Animal Science Association

53 Krustpils Street
Riga, LV-1057
LATVIA

TELEPHONE: 371 7104547 or 371 7104262
FAX: 371 7139492 or 371 7138683
E-MAIL: bjlanim@grindeks.lv

CONTACT: Guna Jacobson, Executive Director

TYPE OF INSTITUTION/ORGANIZATION: Non-profit, professional society.

RESOURCES/SERVICES: Publishes a quarterly journal (Baltic Journal of Laboratory Animal Science--see web address above), sponsors training courses for scientists and technicians based on FELASA recommendations, and co-sponsors annual meetings with other European laboratory animal science associations.

REQUESTOR: Anyone.

COSTS: The journal subscription price including postage for 1999 for one volume (4 issues) is $90.00 (US) for European countries and $100.00 (US) for others. Certain discount is given to subscribers from Baltic and former USSR states. Prices for courses and conferences varies.

European Biomedical Research Association

58 Great Marlborough Street
London W1V 1DD
UNITED KINGDOM

E-MAIL: secretariat@ebra.org

WORLD WIDE WEB: http://www.ebra.org

CONTACT: Dr. Mark Matfield, Secretariat Director

TYPE OF INSTITUTION/ORGANIZATION: Non-profit.

RESOURCES/SERVICES: EBRA is an association of individuals and organisations in the scientific, medical and veterinary professions in the countries of the Council of Europe. EBRA was established to promote the public understanding of the importance of animals in medical and veterinary research and safety testing. The main activities of EBRA are: (1) Producing and distributing a European bulletin about the use of animals in medical research and testing, the activities of campaigning groups and relevant legislative matters in individual countries and throughout the European Union; (2) Assisting individual and corporate members across Europe to promote a balanced and accurate representation of animal research in their national press; (3) Ensuring that accurate and relevant information about animal research is available to European politicians and officials; (4) Ensuring that the views of animal researchers are properly represented to European politicians and officials; (5) Ensuring that information about best practice in laboratory animal science and welfare is readily available within the European scientific community and applied throughout Europe; (6) Maintaining an e-mail bulletin service for members of EBRA. The website provides information on European statistics on animal research, regulation of animal research in European countries, and European research news.

REQUESTORS: Anyone.

COSTS: The annual subscription for Individual Membership is currently ECU 15 per annum.

European Society of Laboratory Animal Veterinarians
RESOURCES/SERVICES: One of the objectives of the Society is to give veterinarians a forum to discuss issues which concern us, in the field of laboratory animal science, in general and in Europe specifically. Veterinarians who work full time or part time, as consultants in this field need to keep themselves updated with regards to e.g. changing and evolving laws and regulations in Europe and in individual nations as well as world wide. Another important objective of this Society is to set the right environment and support to create the European College of Laboratory Animal Medicine. This College is needed to structure the additional training leading to specialization and to certify its members, and to provide assistance in ESLAV's professional continuing education activities. In other words, the College will represent the academic component in our field of laboratory animal medicine. The objectives of ESLAV shall be achieved through: Meetings, lectures, discussions, and publications. These objectives are: (1) The advancement of veterinary knowledge and skills in subjects connected with the breeding, health, welfare, and use of laboratory animals; (2) Collaboration and exchange of information with other societies and allied scientific disciplines; (3) Actively encouraging its members to provide training for veterinarians practicing or wishing to practice in the field of laboratory animals, both at the under and post graduate level. Holds meetings jointly with FELASA and other organizations.

REQUESTORS: Laboratory animal veterinarians

COSTS: Annual membership fees have been set at 250 French Francs.

Federation of European Laboratory Animal Science Associations (FELASA)

BCM Box 2989
London WC1N 3XX
UNITED KINGDOM

CONTACT: P. Hardy, Secretary

WORLD WIDE WEB: http://www.felasa.eu/

TYPE OF INSTITUTION/ORGANIZATION: Professional.


REQUESTOR: Laboratory animal users.

COSTS: Varies according to materials.

Fund for the Replacement of Animals in Medical Experiments (FRAME)

Russell & Burch House
96-98 North Sherwood Street
Nottingham NG1 4EE
UNITED KINGDOM

TELEPHONE: +44 (0)115 958 4740
FAX: +44 (0)115 950 3570
E-MAIL: frame@frame.org.uk
WORLD WIDE WEB: http://www.frame.org.uk/
FRAME publishes a scientific journal, ATLA (Alternatives To Laboratory Animals) that appears six times a year and contains original scientific papers, reports of ECVAM (European Centre for the Validation of Alternative Methods) workshops, comments and news and views articles. FRAME also publishes an influential newsletter, FRAME News, aimed at scientists, politicians, administrators and the informed general public. Subscription is £15 (UK); $30.00 (US) per year. Friends of FRAME is published for FRAME individual supporters. Selection and use of replacement methods in animal experimentation, a 32-page booklet produced by FRAME and UFAW, give a brief overview of alternatives to the use of animals, together with indications of where to find more-detailed information. A copy of the booklet has been sent to all centers licensed for animal experimentation in Britain. Copies are available for purchase from UFAW. FRAME also teaches workshops on The Information Requirements of the Animals (Scientific Procedures) Act, to assist researchers in performing literature searches for alternatives.

REQUESTORS: Anyone.

COSTS: Varies according to materials. Individuals who support the aims of FRAME may join Friends of FRAME at an annual subscription of £15 (UK). Members receive FRAME News and the Friends of FRAME newsletter.
IAT provides an opportunity to promote products and services through its publications, congress, symposia and also through sponsorship.

REQUESTOR: Laboratory animal users.

COSTS: Varies according to material; membership fees vary according to level.

Institut für Labortierkunde der Universität Zürich

Institute of Laboratory Animal Science
University of Zurich
Winterthurerstrasse 190
8057 Zurich
SWITZERLAND
TELEPHONE: + 41 01 / 635 54 50
FAX: +41 1 / 635 57 03
E-MAIL: kbuerki@ltk.unizh.ch

CONTACT: Prof. Dr. Kurt Bürki, Director

WORLD WIDE WEB: http://www.ltk.unizh.ch/

TYPE OF INSTITUTION/ORGANIZATION: University.

RESOURCES/SERVICES: Provides classes and training courses for technicians, students and postgraduates. Breeds rats and mice, offers diagnostic services for rodents and rabbits, offers in vitro production of monoclonal antibodies, and operates a consulting service to answer questions relating to the care of laboratory animals. Most information on the Web site is in German.

REQUESTOR: Laboratory animal users.

COSTS: Varies according to material.

Japanese Association for Laboratory Animal Science (JALAS)

2-8-10 Iwamotocho
Chiyoda-ku
Tokyo 101
JAPAN

TELEPHONE / FAX: 03-3865-1475

RESOURCES: Publishes the quarterly journal Experimental Animals.

COSTS: Price of one issue is 2,500 yen ($25.00 US) for non-member individual.

Laboratory Animal Science Association (LASA)

P.O. Box 3993
Tamworth, Staffs B78 3QU
UNITED KINGDOM

TELEPHONE: 01827 260036
FAX: 01827 260036
E-MAIL: LASA@globalnet.co.uk

WORLD WIDE WEB: http://www.lasa.co.uk/

CONTACT: B.R. Howard, Honorary Secretary

RESOURCES/SERVICES: Co-sponsor of Laboratory Animals: The International Journal of Laboratory Animal Science and Welfare. Other services include: (1) The opportunity to network with other experts in the field and
exchange views and information; (2) Career development through education and training; (3) Strong, influential representation of your opinions and concerns at national and international level; (4) Regular quarterly newsletter with topical news, comment and feature articles about LASA's activities and the world of laboratory animal science (5) Key issues reported in-depth through "Laboratory Animals" - the official journal of LASA, distributed FREE to members. This is also the official journal for some of our sister associations in Europe and of FELASA, the Federation of European Laboratory Animal Science Associations. The journal year runs from January to December during which time four issues are published; and (6) Membership discounts for Association meetings and events.

REQUESTORS: Laboratory animal users.

COSTS: Varies according to materials.

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Nederlandse Vereniging voor Proefdierkunde (NVP)

Dutch Association for Laboratory Animal Science
c/o Agricultural University Wageningen
CKP, P.O. Box 8129, 6700 EV
Wageningen
THE NETHERLANDS
CONTACT: F.A.R. van den Brock, Secretary
TYPE OF ORGANIZATION: Professional.
RESOURCES/SERVICES: Co-sponsor of Laboratory Animals: The International Journal of Laboratory Animal Science and Welfare.

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Scandinavian Federation for Laboratory Animal Science

Enheten för försöksdjursvetenskap och service
Medicinska Forskningsrådet
Box 7151
S-103 88 Stockholm
SWEDEN
TELEPHONE: +46 8 45 44281
FAX: +46 8 45 44303
EMAIL: barbro.salomonsson@vr.se
WORLD WIDE WEB: http://www.scandlas.org/
CONTACT: Barbro Salomonsson, Secretariat
TYPE OF INSTITUTION/ORGANIZATION: Professional.
RESOURCES: Scand-LAS actively promotes: (1) the understanding of the need of animals in research, to the advantage of both other animals and man; (2) the welfare of laboratory animals; (3) the education of all personnel involved in the use of laboratory animals; (4) the dissemination of objective information concerned with use of laboratory animals; (5) the accreditation of laboratory animal facilities; (6) the accreditation of laboratory animal courses; and (7) working groups on selected issues. Scand-LAS is a member of the international laboratory animal science organization FELASA (Federation of the European Laboratory Animal Science Associations) and ICLAS (International Council for Laboratory Animals). Scand-LAS has standing working groups on education, health monitoring and pain, stress and discomfort, as well as policy. A meeting is held every Spring in connection with the general assembly. Following a fixed order, Denmark, Norway, Finland and Sweden are the host countries for these meetings. Scand-LAS publishes a quarterly journal, Scandinavian Journal of Laboratory Animal Science, with papers on basic and applied laboratory animal science. The Journal also disseminates information and news of particular interest to members. The Journal is free to members of Scand-LAS. The Editorial Office is: Arne Rohmann, Skomagerkrogen 14, DK-4000 Roskilde, Denmark. Tel. +45 4635 3168. Fax +45 6525 3114. Email: rrcons@get2net.dk
COSTS: Journal subscriptions are priced for individual and library subscriptions. Membership dues are paid annually.

Schweizerische Gesellschaft für Versuchstierkunde (SGV)

Société Suisse pour la Science des Animaux de Laboratoire
Swiss Laboratory Animal Science Association
c/o Novartis Pharma AG
4002 Basel
SWITZERLAND
CONTACT: Dr. Dr. Brunhile Illgen-Wilcke, Secretary
E-MAIL: illgen-wilcke@microbios.ch
WORLD WIDE WEB: http://www.sgv.org
RESOURCES/SERVICES: Several commissions support the board in the necessary scientific and educational activities and in the important field of laboratory animal protection. An informal Newsletter is published twice a year; the official journal of the society is Laboratory Animal. Every year a scientific meeting is organized, usually as a symposium at the annual meeting of the Swiss Union of Societies for Experimental Biology. A two-day training course or workshop on a selected topic is held in the autumn. Each year the society awards a prize to an outstanding contribution in the field of laboratory animals. Financial support may be granted to young researchers attending training courses or meetings. Eligible as ordinary members are persons who hold appropriate qualifications in biological, veterinary or medical sciences or who, by their experience and attainments, qualify as respected specialists in the field of laboratory animal science. Eligible as institutional members are persons or organizations intending to support the activities of the society.
REQUESTOR: Laboratory animal users.
COSTS: Varies according to material. Currently the membership fees are sfr 50.- for ordinary and sfr 300.- for institutional members.

Sociedad Española para las Ciencias del Animal de Laboratorio

Spanish Society for Laboratory Animal Science
Facultad de Medicina de la U.A.M. (Gabinete Veterinario)
C/ Arzobispo Morcillo
4 - 28029 - Madrid
SPAIN
TELEPHONE: 34+ 913 975 476
FAX: 34+ 913 975 353
E-MAIL: cferiado@uam.es
WORLD WIDE WEB: http://www.secal.es
CONTACT: Secretaría
TYPE OF INSTITUTION/ORGANIZATION: Professional.
RESOURCES/SERVICES: Established in 1989 to improve the care of laboratory animals used in human and animal health by bringing together laboratory animal professionals. SECAL holds Congresses and national and regional scientific meetings. SECAL has many publications available including Spanish translations of journal articles, guidelines, and policies.
REQUESTOR: Laboratory animal users.
COSTS: Vary according to materials or specific course.

Universities Federation for Animal Welfare
The Old School
Brewhouse Hill
Wheathampstead
Hertfordshire AL4 8AN
UNITED KINGDOM
TELEPHONE: +44 (0)1582 831818
FAX: +44 (0)1582 831414
E-MAIL: ufaw@ufaw.org.uk
WORLD WIDE WEB: http://www.ufaw.org.uk
CONTACT: James K. Kirkwood BVSc PhD CBiol FIBiol MRCVS, Scientific Director
TYPE OF INSTITUTION/ORGANIZATION: Private, charitable.
RESOURCES/SERVICES: Publishes The UFAW Handbook on the Care and Use of Laboratory Animals, a comprehensive guide to all laboratory species. Publications, reprints, videos, educational brochures, and advisory services. Publishes a quarterly scientific journal entitled Animal Welfare, which brings together scientific information from zoos, laboratories, farms, wildlife and companion animals.
REQUESTOR: Anyone.
COSTS: Varies according to materials. The annual membership fee for students and non-wage earners is £5 and for those in paid employment £10. Annual subscriptions to the journal Animal Welfare cost UFAW members £40 / $80.00 (US); individuals £50 / $100.00 (US); or libraries £70 / $140.00 (US).

Zentralstelle Zur Erfassung Und Bewertung von Ersatz Und Erganzungsmethoden Zum Tierversuch (Zebet)

Center for Documentation and Evaluation of Alternative Methods to Animal Experiments
Diedersdorfer Weg 1.
D-12277 Berlin
GERMANY
TELEPHONE: +49 30 8412 2271
FAX: +49 30 8412 2958
E-MAIL: ZEBET@bgvv.de
CONTACT: Dr. Horst Spielmann or Dr. Barbara Grune
TYPE OF INSTITUTION/ORGANIZATION: Federal government.
RESOURCES/SERVICES: Producer of the ZEBET DATABANK AND INFORMATION SERVICE ON ALTERNATIVE METHODS TO ANIMAL EXPERIMENTS. The ZEBET data bank contains documents on alternatives to the use of experimental animals, as presented in the international scientific literature. Each record contains a short description of a method in its most important details, i.e. aim, principle, and the stage of development or validation of the method and bibliographic references. An evaluation by ZEBET staff indicates whether the method results in the replacement, reduction or refinement of animal use according to the "3R's." Information is available on over 300 methods from the following subjects: pharmacology, toxicology, bacteriology, virology, food hygiene, parasitology, immunology, neurology, cancer research and animal production. The database contains a total of 4300 bibliographical references. Lists of methods, keywords and sources of literature are available. ZEBET is a part of the Federal Institute for Health Protection of Consumers and Veterinary Medicine, Berlin. ZEBET is responsible for the documentation of alternative methods and also for validation and acceptance of alternative methods at the national and international level, e.g. by the EU and OECD. At present, requests for information have to be in the form of enquiries to ZEBET staff. ZEBET's staff are trained in the biomedical sciences, as well as in searching strategies for open access databank. An online connection to DIMDI, the German Institut for Medical Documentation and Information, provides direct access to all important national and international biomedical databases. The available information on a particular problem in the field of alternative methods is evaluated by ZEBET's staff and given to the user, including printouts from the ZEBET databank, and references of the search in external databases. In controversial cases, ZEBET makes an official statement to the regional authorities which may be used in a court case. In addition, ZEBET handles more general queries on alternatives from all sectors of society.
REQUESTOR: Federal departments, federal authorities, local committees, animal welfare officers, scientists, research institutions, universities, manufacturing industry, animal welfare organizations, the interested public, and journalists.

COSTS: Contact the Center.