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ABSTRACT

This annotated bibliography contains 167 citations of training materials for animal facility personnel that were entered in the AGRICOLA database between January 1979 and February 1995. Citations of journal articles, books, and audiovisual materials are included. A wide variety of publication types are represented, including the following: program descriptions, program evaluations, teacher/student guides, laboratory manuals, guidelines and policy directives, pocket/field guides, needs assessments, literature and state-of-the-art reviews, conference proceedings, research reports, textbooks, and resource guides. Among the topics covered are the following: academic achievement; adult learning; animal anatomy, behavior, breeding, diseases, experimentation, testing, and welfare; bioethics; cattle husbandry; computer-assisted instruction; licensing; law/legislation; learning ability; personnel management; physiology; policy; pharmacology; resource management; research; transplantation; toxicology; telecommunications; science education; professional continuing education; graduate study; employment opportunities; regulations; training; teaching materials; teaching methods; and technical training. Each citation contains some or all of the following: citation number, National Agricultural Library call number, author, title (and journal title if applicable), publisher, place of publication, format information, length (total number of pages or running time), language, and descriptors. Author and subject indexes are included. (MN)

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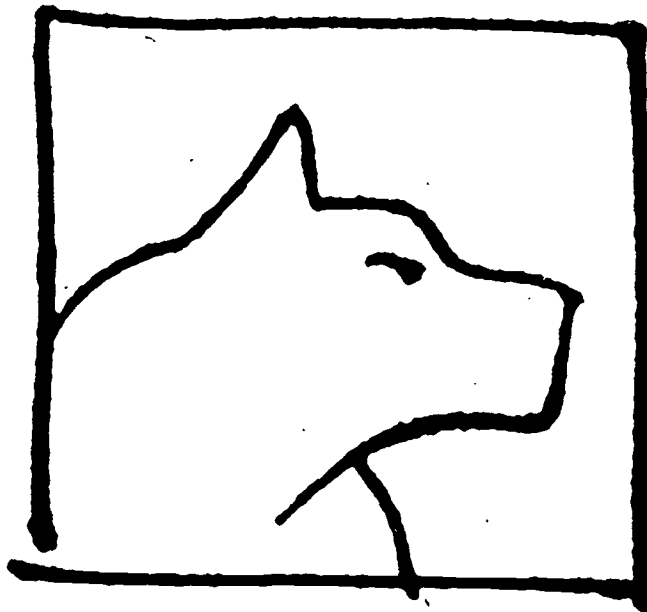
ED 384 766

# Training Materials for Animal Facility Personnel

January 1990 - January 1995

QB 95-08

Quick Bibliography Series



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# **Training Materials for Animal Facility Personnel**

**January 1990 - January 1995**

**Quick Bibliography Series: QB 95-08  
Updates QB 94-17**

**167 citations from AGRICOLA**

**Michael D. Kreger  
Animal Welfare Information Center**



**Animal  
Welfare**

## **National Agricultural Library Cataloging Record:**

**Kreger, Michael D.**

Training materials for animal facility personnel.  
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1. Animals—Handling—Bibliography. I. Title.  
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Interlibrary Loan Department  
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Dr. Smith Faculty Ag School

Canadian Journal of Soil Science 1988 v 68(1): 17-27  
DeJong, R. Comparison of two soil-water models under semi-arid growing conditions  
Ver: AGRICOLA  
Remarks: Not available at IU or in region.  
NAL CA: 568 C162

Auth: C. Johnson CCL Maxcost: \$15.00

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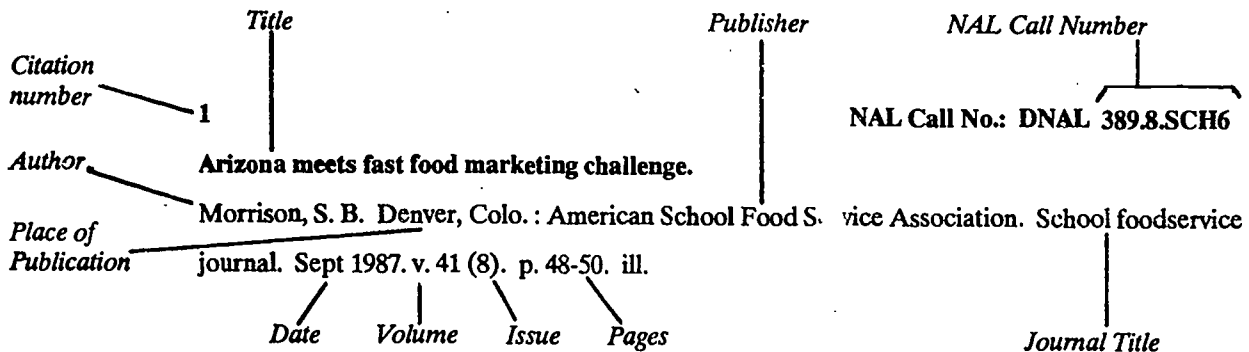
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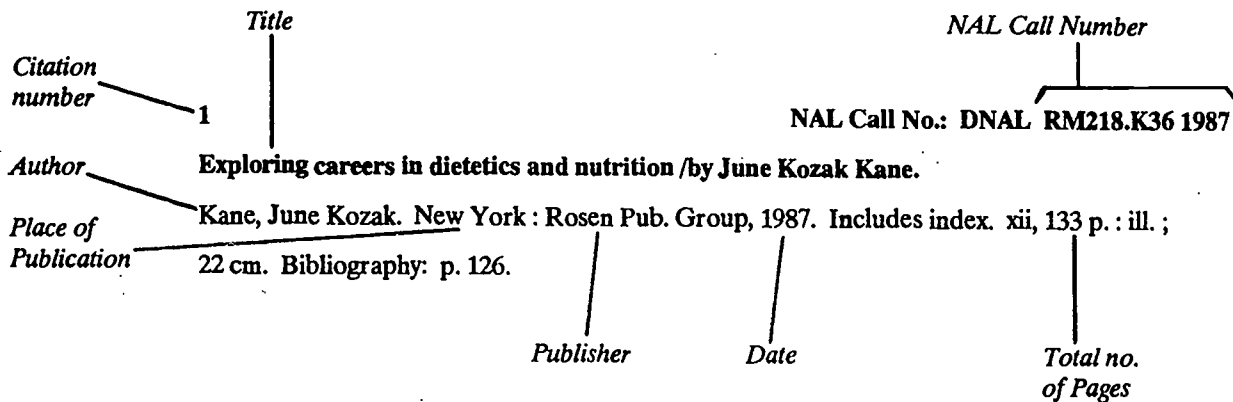
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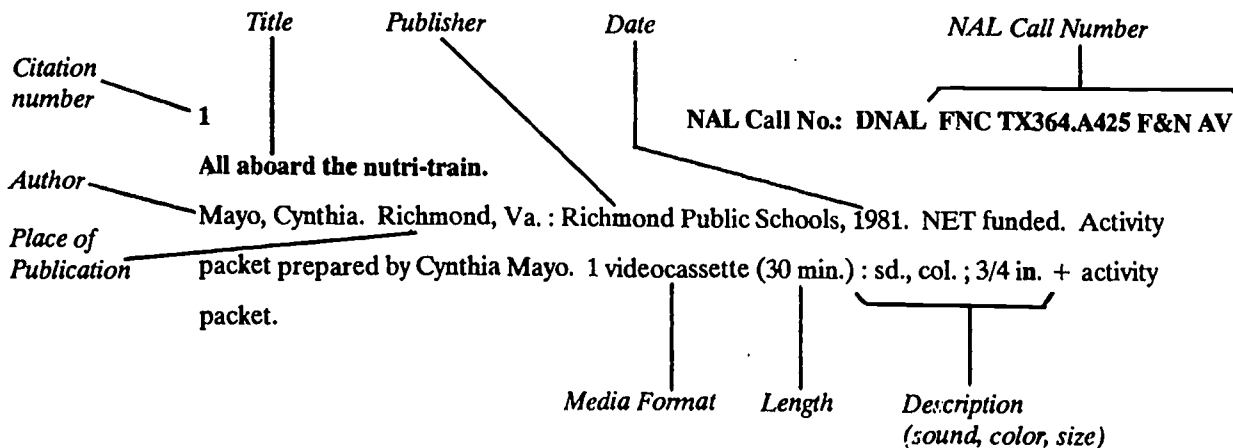
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### Book:



### Audiovisual:



# TRAINING MATERIALS FOR ANIMAL FACILITY PERSONNEL

## Search Strategy

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1. (TRAIN? OR EDUCAT? OR HANDBOOK? OR GUIDE? OR MANUAL? OR INSTRUCT? OR PRIMER? OR SEMINAR? OR SYMPOSIUM? OR PROCEEDING?)/TI, DE
2. (TECHNICIAN? OR CARETAK? OR TECHNOLOGIST? OR INVESTIGATOR? OR RESEARCHER? OR SCIENTIST? OR PERSONNEL OR VETERINARIAN? OR KEEPER? OR ZOOKEEPER? OR HANDLER? OR EMPLOYEE? OR ADMINISTRATOR? OR LABORATOR? OR FACILIT? OR MANAG?)/TI, DE
3. S1 AND S2
4. S3 AND SH=L
5. S4 NOT SF=FNC
6. S5 AND PY=1990:1995

## Training Materials for Animal Personnel

- 1** NAL Call No: QL813.C38R67  
**Anatomy of the cat text and dissection guide.**  
Rosenzweig, Lionel J.  
Dubuque, IA : W.C. Brown,  
xii, 347 p. : ill. ; 28 cm. Includes bibliographical references.  
*Language:* English  
*Descriptors:* Cats; Anatomy; Laboratory manuals; Dissection; Laboratory manuals
- 2** NAL Call No: SF914.A53 1990  
**Anesthesia and analgesia in laboratory animals proceedings - 1990 Forum, American College of Laboratory Animal Medicine, Columbia Inn, Columbia, Maryland, May 3-6, 1990.**  
American College of Laboratory Animal Medicine. Forum (1990 : Columbia, Md.); American College of Laboratory Animal Medicine, Abbott Laboratories  
Columbia, Md. : American College of Laboratory Animal Medicine, 1990?  
1 v. (various pagings) : ill. ; 28 cm. Cover title. Corporate sponsors of scientific program: Abbott Laboratories ... [et al.]. Includes bibliographical references.  
*Language:* English  
*Descriptors:* Veterinary anesthesia
- 3** NAL Call No: HV4704.A53 1992  
**Animal care and use committees and alternatives a symposium sponsored by the Johns Hopkins School of Hygiene and Public Health, Office for Research Subjects, June 18, 1992.**  
Johns Hopkins University, School of Hygiene and Public Health  
Baltimore, Md. : The Office,  
110 p. ; 28 cm. This publication was made possible by a grant from Animal Welfare Information Center, National Agricultural Library. Includes bibliographical references.  
*Language:* English  
*Descriptors:* Animal welfare; Laboratory animals
- 4** NAL Call No: HV4913.A54  
**Animal care and use programs regulatory compliance and education in an age of fiscal constraint. (Educational material for: Animal care and use programs Regulatory compliance and education in an age of fiscal restraint.)**  
Public Responsibility in Medicine and Research (Association), Tufts University, School of  
Medicine, Tufts University, School of Veterinary Medicine  
Boston, Mass.: PRIM&R,  
408 p. : ill. ; 28 cm. Cover title. March 21-22, 1991, Boston, Massachusetts. Includes bibliographical references.  
*Language:* English  
*Descriptors:* Animal welfare; Laboratory animals; Animal experimentation; Animals, laboratory
- 5** NAL Call No: SF406.2.A55 1992  
**Animal diet reference guide., [Rev.].**  
PMI Feeds, Inc  
St. Louis, MO : PMI Feeds, Inc., [1992?].  
1 v. (various pagings) : ill. ; 30 cm. Lab Diet, the Richmond Standard.  
*Language:* English  
*Descriptors:* Laboratory animals
- 6** NAL Call No: SF910.P34A56 1992  
**Animal pain: ethical and scientific perspectives the proceedings of a conference held at the Barossa Valley, Adelaide, April, 1990.**  
Short, Charles E.; Van Poznak, Allan  
Glen Osmond, SA, Australia : ACCART,  
vii, 94 p. : ill. ; 29 cm. Includes bibliographical references.  
*Language:* English  
*Descriptors:* Pain in animals; Laboratory animals
- 7** NAL Call No: SF604.P82 no.144  
**Animal welfare in New Zealand proceedings from a seminar organised for the State Veterinarians Branch, New Zealand Veterinary Association, Rotorua, June 1992.**  
Petersen, Gunner V.  
Massey University, New Zealand Veterinary Association, State Veterinarians Branch, New Zealand Veterinary Association, Foundation for Continuing Education  
Palmerston North, N.Z. : Veterinary Continuing Education, Massey University,  
110 p. : ill. ; 29 cm. (Publication (Massey University. Veterinary Continuing Education) ; no. 144.). Includes bibliographical references.  
*Language:* English  
*Descriptors:* Animal Welfare
- 8** NAL Call No: 41.8 M69  
**Anticonvulsant therapy: a practical guide to med-**

## Quick Bibliography Series

ical management of epilepsy in pets.  
Dyer, K.R.; Shell, L.G.  
Lenexa, Kan. : Veterinary Medicine Publishing Co.  
Veterinary medicine v. 88 (7): p. 647-653; 1993 Jul. Includes references.

*Language:* English

*Descriptors:* Dogs; Cats; Convulsions; Anticonvulsants; Drug therapy; Medical treatment; Drug effects; Interactions

9 NAL Call No: 41.8 Am3  
An assessment of the outcome of the alternative medical and surgical laboratory program at Tufts University.

Pavletic, M.M.; Schwartz, A.; Berg, J.; Knapp, D. Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 205 (1): p. 97-100; 1994 Jul01. Includes references.

*Language:* English

*Descriptors:* Massachusetts; Cabt; Veterinary education; Animal testing alternatives; Educational programs; Surveys; Universities

10 NAL Call No: 41.8 Am3  
Attitudes of veterinarians toward emerging competencies for health care practitioners.

Stone, E.A.; Shugars, D.A.; Bader, J.D.; O'Neil, E.H.  
Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 201 (12): p. 1849-1853; 1992 Dec15. Includes references.

*Language:* English

*Descriptors:* Veterinarians; Attitudes; Veterinary medicine; Veterinary education

11 NAL Call No: S544.3.V8V52  
Beef cow-calf management guide.

Eller, A.L. Jr  
Blacksburg, Va. : Extension Division, Virginia Polytechnic Institute and State University.  
Publication - Virginia Cooperative Extension Service (400-770): 4 p.; 1991.

*Language:* English

*Descriptors:* Beef cattle; Beef herds; Cattle husbandry; Guidelines

12 NAL Call No: SF951J65

The behavior of horses in relation to management and training, towards ethologically sound environments.

Kiley-Worthington, M.  
Lake Elsinore, Calif. : William E. Jones, DVM.  
Journal of equine veterinary science v. 10 (1): p. 62-71; 1990 Jan.

*Language:* English

*Descriptors:* Behavior problems; Horses; Animal behavior; Vices; Feeding behavior; Mating behavior; Group interaction; Tractability; Animal welfare; Time allocation

13 NAL Call No: SF201.S36 1992  
Biological-chronological beef cow wheel. (Cow-calf management guide and cattleman's library.)

Schoonover, C. O.  
University of Wyoming, Cooperative Extension Service  
Laramie, Wyo. : Cooperative Extension Service, University of Wyoming.

[1] leaf ; 28 cm. Cover title. March 1992. Rotating table coordinating the beef cow reproductive cycle with the calendar year. This wheel is a part of the Western Regional "Cow-calf management guide and cattleman's library".

*Language:* English

*Descriptors:* Beef cattle

14 NAL Call No: QL737.U55B564 1990  
The Biology of deer an international symposium, 28 May 1-June 1990.

Brown, Robert D.  
Mississippi State University, Dept. of Wildlife and Fisheries

International Symposium on the Biology of Deer 2nd : 1990 : Mississippi State University.

Mississippi State, MS : Dept. of Wildlife & Fisheries, Mississippi State University.  
1 v. (unpaged) ; 28 cm. Program and abstracts. Includes index.

*Language:* English

*Descriptors:* Deer; Deer farming; Wildlife management

15 NAL Call No: SF401.B56B8  
Buffalo producer's guide to management & marketing.

Dowling, Kim  
National Buffalo Association  
Ft. Pierre, SD : National Buffalo Association.

## Training Materials for Animal Personnel

543 p. : ill., maps ; 24 cm. Includes bibliographical references (p. 527-537) and index.

*Language:* English

*Descriptors:* Bison, American; Bison, American

16 NAL Call No: SF951.J65  
**The California Veterinary Medical Association Disaster Response Resource Guide.**

Marshall, K.; Sahara, R.; Samuels, J.; Norman, B.; Schumacher, R.

Lake Elsinore, Calif. : William E. Jones, DVM. *Journal of equine veterinary science* v. 13 (5): p. 282-283; 1993 May. Proceedings of the First International Conference on Equine Rescue, February 6-7, 1993, Santa Barbara, California.

*Language:* English

*Descriptors:* California; Emergencies; Veterinarians; Organizations; Planning

17 NAL Call No: SF601.C24  
**The Canadian Council on Animal Care, its guidelines and policy directives: the veterinarian's responsibility.**

Rowell, H.C.

Ottawa : Canadian Veterinary Medical Association.

*Canadian journal of veterinary research; Revue canadienne de recherche veterinaire* v. 55 (3): p. 205; 1991 Jul. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Animal experiments; Animal welfare; Veterinary profession; Animal models; Pain

18 NAL Call No: SF407.I58F79 1991  
**Captive invertebrates a guide to their biology and husbandry., Original ed.**

Frye, Fredric L.

Malabar, Fla. : Krieger Pub. Co.,

xx, 135 p. : ill. (some col.) ; 29 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Invertebrates as laboratory animals; Invertebrates as pets; Captive wild animals

19 NAL Call No: SF393.M55C37 1993  
**Care and management of miniature pet pigs guidelines for the veterinary practitioner., 1st ed.**  
Reeves, David E.; Becker, H. Neil  
American Association of Swine Practitioners

Santa Barbara, Calif. : Veterinary Practice Pub. Co.,

ix, 117 p. : ill. ; 23 cm. "Published in cooperation with the American Association of Swine Practitioners", Cover. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Miniature pigs as pets; Miniature pigs

20 NAL Call No: aSF756.28.C37 1991  
**Career planning guide for veterinary medical officers.**

United States, Food Safety and Inspection Service  
Washington, D.C. : The Service, 1991?

iii, 37 p. : ill. ; 28 cm. Cover title.

*Language:* English

*Descriptors:* Veterinarians

21 NAL Call No: 286.81 F322  
**Cattle disease guide.**

Herrick, J.B.

Minnetonka, Minn. : Miller Publishing Co.

*Feedstuffs* v. 63 (29): p. 102-116; 1991 Jul18.

*Language:* English

*Descriptors:* Cattle diseases; Meat and livestock industry; Resource management; Disease prevention

22 NAL Call No: SF961.C87  
**Cattle embryo transfer procedure an instructional manual for the rancher, dairyman, artificial insemination technician, animal scientist, and veterinarian.**

Curtis, John L.

San Diego : Academic Press.,

ix, 131 p. : ill. ; 23 cm. Includes bibliographical references (p. 130-131).

*Language:* English

*Descriptors:* Cattle

23 NAL Call No: SF203.C37 1990  
**Cattle feeding a guide to management.**

Albin, R. C.; Thompson, G. B.

Amarillo : Trafton.,

228 p. : ill. ; 28 cm. September, 1990. Includes bibliographical references.

*Language:* English

*Descriptors:* Cattle

## Quick Bibliography Series

**24** NAL Call No: SF601.J62  
**Changing social ethics on animals and veterinary medical education.**

Rollin, B.E.  
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.  
Journal of veterinary medical education v. 17 (1): p. 2-7; 1990. Comments by A. Schwartz on p. 6-7.

*Language:* English

*Descriptors:* U.S.A.; Veterinary education; Laboratory animals; Teaching methods; Animal experiments; Ethics; Moral values; Animal welfare; Animal testing alternatives

**25** NAL Call No: SF951.J66  
**Changing times a survival guide for the equine practitioner. (Survival guide for the equine practitioner.)**

Jones, William Elvin  
Wildomar, Ca. : Veterinary Data.,  
134 p. : ill. ; 22 cm.

*Language:* English

*Descriptors:* Veterinary medicine; United States; Horses; Diseases; United States; Veterinarians; United States

**26** NAL Call No: SF996.5.I54 1991a  
**Companion guide to infectious diseases of mice and rats.**

Institute of Laboratory Animal Resources (U.S.), Committee on Infectious Diseases of Mice and Rats  
Washington, D.C. : National Academy Press.,  
x, 95 p. ; 23 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Mice; Rats; Laboratory animals; Mice as laboratory animals; Rats as laboratory animals

**27** NAL Call No: 447.8 AM3  
**A comparison of interactive videodisc instruction with live animal laboratories.**

Fawver, A.L.; Branch, C.E.; Trentham, L.; Robertson, B.T.; Beckett, S.D.  
Bethesda, Md. : American Physiological Society.  
American journal of physiology v. 259 (6,pt.3): p. S11-S14; 1990 Dec. Includes references.

*Language:* English

*Descriptors:* Animal physiology; Laboratory

animals; Videodiscs; Computer assisted instruction; Teaching methods

*Abstract:* This study compared interactive videodisc-simulated laboratories with two types of traditional labs: a traditional general cardiovascular physiology participation lab and a traditional fibrillation/positive pressure ventilation demonstration lab. The two laboratory sections (a total of 85 first-year veterinary medical students) were divided into 12 lab groups of 3-4 students per lab section. These groups were randomly assigned to either a traditional live animal laboratory or an interactive videodisc-simulated laboratory to compare the effectiveness and efficiency of these methods in teaching physiology. A 22-item, multiple-choice/short answer test was given to all students after the laboratories. In both the participation and the demonstration laboratories, there were no significant differences between group test scores of the interactive videodisc groups and the live animal laboratory groups, but there were differences in time spent by both students and instructors. It was concluded that the interactive videodisc-simulated lab was as effective as the traditional live-animal labs and was more time efficient than the traditional participation lab.

**28** NAL Call No: QL55.A1L33  
**A comprehensive health science center educational program for animal care and use.**

White, G.L.; Perry, M.A.; Kosanke, S.D.; Randolph, M.M.; Niekraz, M.A.  
New York, N.Y. : Nature Publishing Company.  
Lab animal v. 20 (7): p. 47-49; 1991 Jul. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Educational programs; Animal husbandry

**29** NAL Call No: 41.8 Am3  
**Computer use in private veterinary practice.**

Dye, L.; Harris, T.; Ray, C.M.; Waldhalm, S.  
Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 204 (6): p. 888-890; 1994 Mar15. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Cabt; Veterinary practice; Computers; Computer hardware; Computer software; Training; Attitudes; Veterinarians; Personnel; Surveys

## Training Materials for Animal Personnel

30 NAL Call No: SB951.5.C66 1991  
**Contingency pest management pocket guide.**  
United States, Armed Forces Pest Management Board  
Washington, D.C. : Armed Forces Pest Management Board, Walter Reed Army Medical Center, vii, 69 p. : 11 x 18 cm. (Technical information memorandum (Washington, D.C.) ; 24.). January 1991. Errata slip inserted.

*Language:* English

*Descriptors:* Pests; Insecticides

*Abstract:* This pocket guide is designed to provide certified military preventive medicine/pest control personnel with information on field use of pesticides worldwide during military exercises or contingency operations. Concise, ready reference charts present the National Stock Number (NSN) for contingency pesticides, their dosages, uses and application methods. Pesticide dispersal and surveillance and trapping equipment, safety equipment, personal protective equipment against disease vectors, and air transportable overpack containers are covered. Dilution and rate formulas, conversion factors, and U.S. military medical entomology points of contact overseas are supplied.

31 NAL Call No: Videocassette no.1129  
**Cuidado y uso humanitario de animales de laboratorio para tecnicos [prepared for the U.S. Department of Agriculture, National Agriculture Library by the Laboratory Animal Training Association] [Humane care and use of laboratory animals for technicians].** (Animales de laboratorio Humane care an use of laboratory animals for technicians.)

Laboratory Animal Training Association  
Raleigh, N.C. : Laboratory Animal Training Association, [1991?].

1 videocassette (36 min.) : sd., col. ; 1/2 in. + 1 Spanish language script + 1 English language script. Title on cassette spine: Animales de laboratorio.

*Language:* Spanish; English

*Descriptors:* Laboratory animal technicians; Animal welfare; Laboratory animals

32 NAL Call No: SF601J62  
**Curriculum change related to live animal use: a four-year surgical curriculum.**  
White, K.K.; Wheaton, L.G.; Greene, S.A.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.  
Journal of veterinary medical education v. 19 (1): p. 6-10; 1992. Includes references.

*Language:* English

*Descriptors:* Washington; Veterinary education; Surgery; College curriculum; Laboratory animals; Educational reform; Educational objectives; Teaching methods; Animal welfare; Animal testing alternatives

33 NAL Call No: QL55.I5

**Delivering the goods.**

Porter, R.I.

Sussex : The Institute.

Animal technology : journal of the Institute of Animal Technology v. 41 (3): p. 211-216; 1990 Dec.

*Language:* English

*Descriptors:* Great Britain; Technicians; Education; Training

34 NAL Call No: SF601.A54  
**Development of a teaching laboratory aid for instruction of fine needle aspiration biopsy cytology technique.**

Simpson, R.M.; Meuten, D.J.

Santa Barbara, Calif. : Veterinary Practice Publishing Company.

Veterinary clinical pathology v. 21 (2): p. 40-44; 1992 Jun15. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Fine needle aspiration; Cytology; Teaching materials

35 NAL Call No: SF961.A5  
**The development of continuing education opportunities for veterinarians in dairy health management.**

Lesile, K.

Stillwater, Okla. : The Association, [1992-].

American Association of Bovine Practitioners Conference : [proceedings] v. 2: v. 2 p. 217-221; 1992. Meeting held on August 31-September 4, 1992, St. Paul, Minneosta. Includes references.

*Language:* English

*Descriptors:* Dairy cattle; Veterinary education; Continuing education

36 NAL Call No: aHV4701.A952

## Quick Bibliography Series

**Development of personnel training, experiences at Furdue University.**

Fitzgerald, A.L.; Maikel, R.P.

Beltsville, Md. : National Agricultural Library, AWIC.

Animal Welfare Information Center newsletter v. 3 (1): p. 2-3; 1992 Jan.

*Language:* English

*Descriptors:* Indiana; Technicians; Training courses; Laboratory animals; Animal experiments; Universities

37 **NAL Call No: HV4701.A35**  
**Dissection: a cutting edge debate.**

Clifton, M.

Englewood, Colo. : American Humane Association, Animal Protection Division.

Advocate v. 11 (2): p. 13-17; 1993.

*Language:* English

*Descriptors:* Laboratory animals; Science education

38 **NAL Call No: 41.8 Am3**  
**Do veterinarians have the training and equipment to compound drugs?**

Plumb, D.C.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 205 (2): p. 268-269; 1994 Jul15. Paper presented at the "Symposium on Compounding in Veterinary Medicine," Sept 9-10, 1993.

*Language:* English

*Descriptors:* Drug formulations; Drug combinations; Veterinarians

39 **NAL Call No: SF601.14**  
**Do your support staff lay golden eggs?**

Jevring, C.

London : British Veterinary Association : 1979-.

In practice v. 15 (4): p. 198-199, 201; 1993 Jul.

*Language:* English

*Descriptors:* Veterinary practice; Veterinary services; Personnel; Personnel management; Training

40 **NAL Call No: RM145.B65 1990**  
**Drug dosage in laboratory animals a handbook, 3rd ed. rev. and enl.**

Borchard, Ronald E.; Barnes, Charles D., 1935-; Eltherington, L. G.; Barnes, Charles D.,

Caldwell, N.J. : Telford Press.,

xxix, 692 p. : 29 cm. Rev. ed. of: Drug dosage in

laboratory animals / by C.D. Barnes and L.G. Eltherington. 2nd rev. and enl. ed. [c1973]. Includes bibliographical references (p. 519-674).

*Language:* English

*Descriptors:* Drugs; Laboratory animals; Pharmacology, Experimental

41 **NAL Call No: 41.8 AM3**  
**Drug use guidelines for veterinary practitioners.**  
Gloyd, J.S.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 202 (10): p. 1738-1739; 1993 May15. Paper presented at the symposium "Use of FDA-approved drugs in veterinary medicine: prohibitions, prerogatives, and responsibilities.". Includes references.

*Language:* English

*Descriptors:* U.S.A.; Drugs; Guidelines; Veterinarians

42 **NAL Call No: 41.8 AU72**  
**Early history of veterinary education in Victoria.**  
Hughes, K.L.; Milne, I.

Brunswick, Victoria : Australian Veterinary Association.

Australian veterinary journal v. 69 (12): p. 325-336; 1992 Dec. Includes references.

*Language:* English

*Descriptors:* Victoria; Veterinary education; History; Veterinarians; Veterinary schools

43 **NAL Call No: SF811.E39 1993**  
**ECG manual for the veterinary technician.**

Edwards, N. Joel

Philadelphia : W.B. Saunders.,

xii, 191 p. : ill. ; 19 x 27 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Veterinary electrocardiography

44 **NAL Call No: 41.8 Am3**  
**Ecotoxicology and ecosystem health: roles for veterinarians; goals of the Envirovet program.**

Beasley, V.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 203 (5): p. 617-628; 1993 Sep01. Includes references.



## Training Materials for Animal Personnel

*Language:* English

*Descriptors:* Toxicology; Ecosystems; Educational programs; Veterinary education; Environmental impact

45 NAL Call No: 41.8 AM3  
Educating veterinarians to prescribe and use drugs in a responsible manner.

Jenkins, W.L.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 202 (10): p. 1708-1710; 1993 May15. Paper presented at the symposium "Use of FDA-approved drugs in veterinary medicine: prohibitions, prerogatives, and responsibilities."

*Language:* English

*Descriptors:* U.S.A.; Drugs; Veterinary education; Prescriptions; Regulations; Government organizations

46 NAL Call No: SF604.E3  
Education and training in the care and use of laboratory animals a guide for developing institutional programs.  
Institute of Laboratory Animal Resources (U.S.), Committee on Educational Programs in Laboratory Animal Science  
Washington, D.C. : National Academy Press, xi, 139 p. ; 28 cm. Includes bibliographical references.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare

47 NAL Call No: 41.8 R3224  
Electronic communication with veterinarians: An update on VetNet and Exten.  
Maxie, G.; Stowe, J.; Bonnett, B.  
Ottawa : Canadian Veterinary Medical Association.  
The Canadian veterinary journal v. 31 (2): p. 84-85; 1990 Feb.

*Language:* English

*Descriptors:* Canada; Veterinarians; Telecommunications; Diffusion of information; Continuing education; Veterinary practice

48 NAL Call No: SF201.E42  
Embryo transfer, cattle transcription of proceedings.  
Hibburt, Chris

Australian Association of Cattle Veterinarians, University of Sydney, Post-Graduate Committee in Veterinary Science  
Sydney, N.S.W. : Post Graduate Committee in Veterinary Science., iv, 91 p. ; 26 cm. (Refresher course for veterinarians. Proceedings ; 131.). Includes index.

*Language:* English

*Descriptors:* Cattle; Embryos; Transplantation; Congresses

49 NAL Call No: 41.8 AM3  
Employment, starting salaries, and educational indebtedness of 1990 graduates of US veterinary medical colleges.

Wise, J.K.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 197 (10): p. 1381-1382; 1990 Nov15. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Veterinarians; Graduates; Employment opportunities; Salaries; Debt; Veterinary education; Veterinary profession

50 NAL Call No: 41.8 AM3  
Employment, starting salaries, and educational indebtedness of 1991 graduates of US veterinary medical colleges.

Wise, J.K.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 199 (12): p. 1777-1778; 1991 Dec15. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Veterinarians; Graduates; Salaries; Employment; Debt

51 NAL Call No: 41.8 Am3  
Employment, starting salaries, and educational indebtedness of 1992 graduates of US veterinary medical colleges.

Wise, J.K.; Yang, J.J.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 201 (11): p. 1685-1686; 1992 Dec01.

*Language:* English

*Descriptors:* Veterinarians; Graduates; Employment; Salaries; Debt

## Quick Bibliography Series

**52** NAL Call No: 41.8 Am3  
Employment, starting salaries, and educational indebtedness of 1993 graduates of US veterinary medical colleges.

Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 203 (12): p. 1687-1688; 1993 Dec15.

*Language:* English

*Descriptors:* U.S.A.; Cabt; Veterinarians; Employment; Salaries; Debt; Graduates

**53** NAL Call No: SF604.R37 no.165  
Endocrinology in internal medicine a symposium for veterinarians, 28-30 June 1991.

University of Sydney, Post Graduate Committee in Veterinary Science  
Sydney South, NSW, Australia : Post Graduate Committee in Veterinary Science, University of Sydney,

n, iv, 394 p. : ill. (some col.) ; 26 cm. ([Refresher course for veterinarians], proceedings 165). Venue: Leura, NSW. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Cats; Dogs; Veterinary endocrinology

**54** NAL Call No: 275.8 AG8  
Equine facilitated therapy.

Hoover, T.S.; Nolt, B.H.; Davidson, C.J.  
Henry, Ill. : The Magazine.  
The Agricultural education magazine v. 55 (9): p. 8-9, 23; 1993 Mar. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Canada; Handicapped persons; Horses; Therapy; Education; Sport; Horse riding

**55** NAL Call No: SF604.R37 no.174  
Equine reproduction a seminar for veterinarians : 1 September 1991.

LeBlanc, Michelle; McKinnon, A. O.  
University of Sydney, Post Graduate Committee in Veterinary Science  
Sydney South, NSW, Australia : Post Graduate Committee in Veterinary Science, University of Sydney,

vi, 143 p. : ill. ; 26 cm. ([Refresher course for veterinarians], proceedings 174). Venue: Stephen Roberts Lecture Theatre, University of Sydney. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Veterinary obstetrics; Horses; Veterinary gynecology

**56** NAL Call No: KK6236.E7 1991  
Erläuterungen zur Verordnung über die Berufsausbildung zum Tierarzhelfer/zur Tierarzhelferin, vom 10. Dezember 1985 [Explanations of the regulation on professional training of men and women veterinary helpers, as of December 10, 1985]. (Neu Erläuterungen zur Verordnung über die Berufsausbildung Tierarzhelfer, Tierarzhelferin.), 1. Aufl. 1991.

Bundesinstitut für Berufsbildung  
Nürnberg : BW Verlag und Software,  
70 p. ; 30 cm. Cover title: Neu Erläuterungen zur Verordnung über die Berufsausbildung. Includes bibliographical references (p. 51) and index.

*Language:* German

*Descriptors:* Animal health technicians; Veterinary medicine

**57** NAL Call No: aQL55.B36  
Essentials for animal research a primer for research personnel.

Bennett, B. T.; Brown, M. J.; Schofield, J. C.  
National Agricultural Library (U.S.), University of Illinois at Chicago  
Beltsville, Md. : U.S. Dept. of Agriculture, National Agricultural Library : University of Illinois at Chicago,  
vi, 126 p. : ill. ; 28 cm. "Produced as a joint effort of the National Agricultural Library, USDA, and the University of Illinois at Chicago and supported by cooperative agreement number 58-32U4-7-070", P. vi. April 1990. Includes bibliographical references.

*Language:* English

*Descriptors:* Animal experimentation; Laboratory animals; Animal welfare

**58** NAL Call No: QL55.E84 1992  
Ethics in research on animal behaviour readings from Animal behaviour. (Guidelines for the use of animals in research.)

Dawkins, Marian Stamp; Gosling, Morris  
Association for the Study of Animal Behaviour, Animal Behavior Society  
London, England : Academic Press for the Association for the Study of Animal Behaviour and the Animal Behavior Society, [1992?].

## Training Materials for Animal Personnel

64 p. : ill. ; 25 cm. Includes "Guidelines for the use of animals in research," revised 1991 version. Includes bibliographical references.

*Language:* English

*Descriptors:* Animal experimentation; Laboratory animals

59 NAL Call No: QL55.A1L33  
Evaluation of the effectiveness of an animal care and use training program.

Adsit, K.I.; Tomasovic, S.P.; Mastromarino, A.J.; Gray, K.N.

New York, N.Y. : Nature Publishing Company.  
Lab animal v. 19 (4): p. 50, 52-54; 1990 May. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Program evaluation; Training

60 NAL Call No: SF601.J62  
Evaluation of undergraduate orthopedic surgical training by survey of graduate and employer veterinarians.

Weigel, J.P.; Rohrbach, B.W.; Monroe, A.C.; Warner, S.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.

Journal of veterinary medical education v. 19 (1): p. 2-5; 1992. Includes references.

*Language:* English

*Descriptors:* Tennessee; Orthopedics; Surgery; Skills; Training; Graduates; Job performance; Evaluation; Veterinary education; Surveys; Veterinarians

61 NAL Call No: QL615.F5  
Fish physiology, fish toxicology, and fisheries management proceedings of an international symposium, Guangzhou, PRC, September 14-16, 1988.

Ryans, Robert C.  
Environmental Research Laboratory (Athens, Ga.)  
Athens, Ga. : Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency; EP 1.23/6:600/9-90/011.

viii, 348 p. : ill. ; 28 cm. March 1990. EPA/600/9-90/011. Includes bibliographical references.

*Language:* English

*Descriptors:* Fishes; Physiology; Congresses; Fishes; Growth; Congresses; Fishes; Effect of water

quality on; Congresses; Fishes; Effect of water pollution on; Congresses

62 NAL Call No: SF910.P34A55 1992  
The future of control of pain in animals used in teaching and research.

Rowell, H.C.

New York : Churchill Livingstone.

Animal pain / edited by Charles E. Short, Alan Van Poznak. p. 525-537; 1992. Includes references.

*Language:* English

*Descriptors:* Animal experiments; Laboratory animals; Pain; Research; Teaching; Education; Legislation; Animal welfare

63 NAL Call No: SF407.R38G46  
Genetic monitoring of inbred strains of rats a manual on colony management, basic monitoring techniques, and genetic variants of the laboratory rat.

Hedrich, Hans J.; Adams, M.

International Council for Laboratory Animal Science

Stuttgart ; New York : Gustav Fischer Verlag.

xii, 539 p. : ill. ; 25 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Rats as laboratory animals; Rats; Inbreeding

64 NAL Call No: 41.8 AM3  
Greater participation by veterinarians in the reproductive management of dairy cattle.

Phatak, A.P.; Whitmore, H.L.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 199 (1): p. 74-76; 1991 Jul01. Includes references.

*Language:* English

*Descriptors:* Dairy cattle; Breeding programs; Veterinarians; Estrus; Detection; Artificial insemination; Pregnancy rate; Educational programs

65 NAL Call No: SF406.G8 1990  
Guia para el cuidado y uso de animales de laboratorio. [Guide for the care and use of laboratory animals]., Revisada en 1985.

Institute of Laboratory Animal Resources (U.S.), Committee on Care and Use of Laboratory Animals

## Quick Bibliography Series

Bethesda, Md.? : U.S. Dept. of Health and Human Services, Public Health Service, National Institutes of Health, [1990?]; HE 20.3008:An 5/985/Spanish.

ix, 83 p. ; 23 cm. (NIH publication ; no. 90-23S). Translation of: Guide for the care and use of laboratory animals. Shipping list no.: 90-716-P. "Publicacion no. 86-23 de los Institutos Nacionales de Salud", P. [4] of cover. Includes bibliographical references (p. 59-73).

*Language:* Spanish; Spanish

*Descriptors:* Laboratory animals

66 NAL Call No: SF473.G68S25 1991  
A guide to, Gouldian finches their management, care & breeding. (Gouldian finches.)

Sammut, John; Marshall, Rob  
South Tweed Heads, NSW : Published and edited by Australian Birdkeeper,.  
88 p. : col. ill. ; 24 cm. Authors: John Sammut, Rob Marshall. Includes bibliographical references.

*Language:* English

*Descriptors:* Gouldian finch

67 NAL Call No: SF406.G85 1993  
Guide to the care and use of experimental animals., 2nd ed.

Olfert, Ernest D.; Cross, Brenda M.; McWilliam, A. Ann  
Canadian Council on Animal Care  
Ottawa, Ont. : Canadian Council on Animal Care, c1993-.  
v. ; 28 cm. Includes bibliographical references.

*Language:* English

*Descriptors:* Laboratory animals; Veterinary medicine

68 NAL Call No: SF762.S74 1992  
A guided tour of veterinary anatomy domestic ungulates and laboratory mammals.

Smallwood, James E.  
Philadelphia : W.B. Saunders,.  
vii, 390 p. : ill. ; 27 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Veterinary dissection; Veterinary anatomy; Laboratory animals

69 NAL Call No: 41.8 Am3A  
Guidelines for animal surgery in research and

teaching.

Brown, M.J.; Pearson, P.T.; Tomson, F.N.  
Schaumburg, Ill. : American Veterinary Medical Association.

American journal of veterinary research v. 54 (9): p. 1544-1559; 1993 Sep. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Animal experiments; Surgery; Guidelines; Animal welfare; Teaching materials; Personnel; Equipment; Preoperative care; Anesthesia; Postoperative care

70 NAL Call No: 410.9 P94  
Guidelines for developing and managing an environmental enrichment program for nonhuman primates.

Bloomsmith, M.A.; Brent, L.Y.; Schapiro, S.J.  
Cordova, Tenn. : American Association for Laboratory Animal Science.  
Laboratory animal science v 41 (4): p. 372-377; 1991 Aug. Includes references.

*Language:* English

*Descriptors:* Primates; Environment; Enrichment; Guidelines; Animal welfare; Record keeping; Costs; Plan implementation and evaluation

*Abstract:* Before implementing an environmental enrichment program for nonhuman primates, several issues should be considered. The assignment of enrichment tasks can be made to caretakers, a dedicated "enrichment technician," volunteers, students or individuals with training in behavioral science. Determining the enrichment techniques to be used must take into account personnel time available; the species, age, sex, and individual histories of the nonhuman primates; and experimental protocols for which animals are being maintained. Identifying the most beneficial way to use the available personnel time must be tailored for each institution. To meet federal regulations, records must be kept of the environmental enhancements available to each nonhuman primate. Good record-keeping will allow appropriate evaluation of the program. This evaluation should involve the animals' responses to the enrichment opportunity, cost and durability of enrichment items, human and nonhuman safety considerations, and personnel required. The well-being of captive nonhuman primates will be most improved if well-informed decisions are made in developing and managing environmental enrichment programs.

## Training Materials for Animal Personnel

71 NAL Call No: QL55.A1L3  
Guidelines for the care of laboratory animals in transit.  
London : Royal Society of Medicine Services.  
Laboratory animals v. 27 (2): p. 93-107; 1993 Apr.  
Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Transport of animals

72 NAL Call No: 41.8 V641  
Guidelines for the interpretation of laboratory findings in birds and mammals with unknown reference ranges: plasma biochemistry.  
Gascoyne, S.C.; Bennett, P.M.; Kirkwood, J.K.; Hawkey, C.M.  
London : The British Veterinary Association.  
The Veterinary record : journal of the British Veterinary Association v. 134 (1): p. 7-11; 1994 Jan01. Includes references.

*Language:* English

*Descriptors:* Birds; Mammals; Blood chemistry

73 NAL Call No: HV4704.G8  
Guidelines for the well-being of rodents in research from a conference held by the Scientists Center for Animal Welfare in Research Triangle Park, North Carolina on December 8, 1989, with additional material provided by the authors.  
Guttman, Helene N.  
Scientists Center for Animal Welfare (Washington, D.C.)  
Bethesda, MD : Scientists Center for Animal Welfare,  
vi, 105 p.: ill.; 28 cm. October 1990. Includes bibliographical references.

*Language:* English

*Descriptors:* Rodents as laboratory animals; Congresses; Animal welfare; Congresses

74 NAL Call No: SF601.J6 no.21-3  
Guidelines for zoo and aquarium veterinary medical programs and veterinary hospitals.  
American Association of Zoo Veterinarians.  
Veterinary Standards Committee  
S.l. : s.n. : ;  
i, 10, [1] : 1 form ; 26 cm. (Journal of zoo and wildlife medicine ; v.21 no. 3 1990 suppl.). Cover title. Includes bibliographical references (p. [117]).

*Language:* English

75 NAL Call No: HV4943.G7H25 1991  
Handbook for the animal licence holder guidance for those seeking authority under the animals (scientific procedures) Act 1986., 2nd ed. rev.  
Bunyan, J.  
Institute of Biology  
London : Institute of Biology,  
iv, 62 p. ; 24 cm. Includes bibliographical references (p. 53-57).

*Language:* English

*Descriptors:* Laboratory animals

76 NAL Call No: Q180.57.H36  
Handbook of facilities planning. (Facilities planning.)  
Ruys, Theodorus,  
New York : Van Nostrand Reinhold, c1990-c1991.  
2 v. : ill. ; 26 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Physical laboratories; Laboratory animals

77 NAL Call No: SF406.W64 1994  
Handbook of laboratory animal management and welfare.  
Wolfensohn, Sarah; Lloyd, Maggie  
Oxford ; New York : Oxford University Press,  
xi, 304 p. : ill. ; 24 cm. Includes bibliographical references (p. [281]-293) and index.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare; Animal experimentation

78 NAL Call No: QL55.H36 1994  
Handbook of laboratory animal science.  
Svendsen, Per; Hau, Jann  
Boca Raton, Fla. : CRC Press,  
2 v. : ill. ; 27 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Laboratory animals; Animal experimentation; Animal models in research

79 NAL Call No: RL79.H36 1994  
Handbook of mouse mutations with skin and hair abnormalities animal models and biomedical tools. (Mouse mutations with skin and hair abnormalities.)

## Quick Bibliography Series

Sundberg, John P.  
Boca Raton : CRC Press,  
544 p. : ill. ; 27 cm. (CRC series in dermatology).  
Includes bibliographical references and index.

*Language:* English

*Descriptors:* Skin; Hair; Mice as laboratory animals; Mice

80 NAL Call No: SF407.M5H35 1991  
**Handbook on genetically standardized JAX mice.**  
(Genetically standardized JAX mice JAX mice.),  
4th ed.

Green, Margaret C.; Witham, Barbara A.  
Jackson Laboratory (Bar Harbor, Me.)  
Bar Harbor, ME : Jackson Laboratory,  
96 p. : ill. ; 28 cm. Includes bibliographical refer-  
ences and index.

*Language:* English

*Descriptors:* Mice as laboratory animals; Inbreed-  
ing; Mice, Inbred Strains

81 NAL Call No: HV4761.A5  
**Harming animals as part of biology education.**  
Orlans, F.B.  
Washington, D.C. : The Institute.  
The Animal Welfare Institute quarterly v. 41 (3):  
p. 9; 1992.

*Language:* English

*Descriptors:* Laboratory animals; Science education

82 NAL Call No: 275.29 F66  
**Hatchery manual for grass carp and other  
riverine cyprinids.**  
Rottmann, R.W.; Shireman, J.V.  
Gainesville, Fla. : The Service.  
Bulletin - Florida Cooperative Extension Service,  
University of Florida (244): 28 p.; 1990. Includes  
references.

*Language:* English

*Descriptors:* Florida; Cyprinidae; Aquaculture; Fish  
culture; Fish farming; Fish farms; Water supply;  
Fish ponds; Fishery management; Spawning; Hor-  
mones; Farm equipment

83 NAL Call No: SF428.H85 1991  
**Humane care guidelines.**  
American Professional Pet Distributors, Inc  
St. Paul, MN : American Professional Pet Distrib-  
utors, [1991?].  
96 p. : ill. ; 23 x 11 cm. Cover title.

*Language:* English

*Descriptors:* Kennel management; Kennels; Pets

84 NAL Call No: HV4701.A45  
**The importance of access to animal care commit-  
tees: a primer for activists.**  
Francione, G.L.  
Monroe, Conn. : Animal Rights Network.  
The Animals' agenda v. 10 (7): p. 44-47. ill; 1990  
Sep. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare;  
Committees; Access; Information

85 NAL Call No: SF428.I57 1991  
**Improved healthcare in kennels and catteries  
proceedings of a symposium held by the BSAVA  
at the University of Loughborough on June 9th  
1991. (Proceeding of a symposium on improved  
healthcare in kennels and catteries.)**  
Beynon, Peter H.  
British Small Animal Veterinary Association  
Symposium on Improved Healthcare in Kennels  
and Catteries 1991 : University of Loughborough.  
Cheltenham : British Small Animal Veterinary As-  
sociation.,  
63 p. : ill. ; 30 cm. Cover title: Proceedings of a  
Symposium on 'Improved Healthcare in Kennels  
and Catteries' held at University of Loughborough  
- 9th June 1991. Includes bibliographical refer-  
ences.

*Language:* English

*Descriptors:* Kennels; Pets; Pet boarding facilities

86 NAL Call No: HV4764.I58 1992  
**Institutional Animal Care and Use Committee  
guidebook.**  
National Institutes of Health (U.S.)  
Bethesda, Md. : U.S. Dept. of Health and Human  
Services, Public Health Service, National Institutes  
of Health ; [Washington, D.C. : Supt. of Docs, U.S.  
G.P.O., distributor, 1992-]; HE 20.3008:An 5/5.  
1 v. (loose-leaf) ; 28 cm. (NIH publication ; no.  
92-3415). Includes bibliographical references.

*Language:* English

*Descriptors:* Laboratory animals; Animal ex-  
perimentation; Animal welfare

87 NAL Call No: S494.5.D3C652  
**An integrated computer instructional approach to**

## Training Materials for Animal Personnel

improve dairy cattle estrus detection.

Johnson, P.J.; Oltenacu, P.A.; Ferguson, J.D.  
Amsterdam : Elsevier Science Publishers, B.V.  
Computers and electronics in agriculture v. 7 (1):  
p. 61-70; 1992 Apr. Includes references.

*Language:* English

*Descriptors:* Dairy cattle; Estrus; Computer simulation;  
Computer assisted instruction; Learning ability;  
Computer software; Flow charts; Animal husbandry;  
Farm management

88 NAL Call No: SF780.3.I57 1991  
Interlaboratory Bacteriology Workshop Regional  
Veterinary Laboratory, Orange, June 4th and 5th  
1991.

Carrigan, Mark  
Regional Veterinary Laboratory, Orange, NSW  
Agriculture, Veterinary Laboratory Service  
Interlaboratory Bacteriology Workshop 1991 :  
Regional Veterinary Laboratory, Orange.  
Orange, N.S.W.? : The Laboratory?, 1991?  
iv, 78 leaves : ill. ; 30 cm. "New South Wales  
Agriculture, Veterinary Laboratory Service",  
Prelim. Spiral bound volume. Includes  
bibliographical references.

*Language:* English

*Descriptors:* Veterinary bacteriology; Veterinary  
laboratories; Veterinary clinical pathology

89 NAL Call No: QL364.2.A27 1990  
Invertebrate learning a laboratory manual and  
source book.

Abramson, Charles I.  
Washington, D.C. : American Psychological Association,  
viii, 100 p. : ill. ; 28 cm. Includes bibliographical  
references (p. 93-100).

*Language:* English

*Descriptors:* Invertebrates; Learning in animals

90 NAL Call No: QL55.A1143  
IRAC recommendation on LD50 testing.

Washington, Institute of Laboratory Animal Resources,  
National Research Council.  
ILAR news v. 35 (3/4): p. 56-58; 1993. Includes  
references.

*Language:* English

*Descriptors:* Laboratory animals; Lethal dose; Testing;  
Committees; Guidelines; Policy; International  
organizations

91 NAL Call No: SF428.M25 1994  
Kennels and kenneling a guide for professionals  
and hobbyists.

McMains, Joel M.  
New York : Howell Book House ; Toronto : Maxwell  
Macmillan Canada ; New York : Maxwell  
Macmillan International,  
xv, 205 p. : ill. ; 25 cm. Includes index.

*Language:* English

*Descriptors:* Kennels; Kennel management

92 NAL Call No: SF406.L33 1993  
Lab animal care and use handbook.

University of Tennessee, Memphis, Dept. of Comparative  
Medicine  
Memphis, Tenn. : The Dept., [1993?].  
1 v. (loose-leaf) ; 30 cm. Includes index.

*Language:* English

*Descriptors:* Laboratory animals

93 NAL Call No: QL813.L3M3 1990  
Laboratory anatomy of the rabbit., 3rd ed.

McLaughlin, Charles Albert; Chiasson, Robert B.  
Dubuque, Iowa : Wm. C. Brown,  
ix, 112 p. : ill. (some col.) ; 28 cm. (Laboratory  
anatomy series). Includes bibliographical references  
and index.

*Language:* English

*Descriptors:* Rabbits; Anatomy; Laboratory  
manuals; Dissection; Mammals; Anatomy; Laboratory  
manuals

94 NAL Call No: QL55.A1L33  
Laboratory animal science in Italy: legislation,  
education, and training programs.

Guaitani, A.  
New York, N.Y. : Nature Publishing Company.  
Lab animal v. 21 (8): p. 39-40, 42, 44; 1992 Sep.  
Includes references.

*Language:* English

*Descriptors:* Italy; Animal experiments; Legislation;  
Educational programs

95 NAL Call No: SF406.N92 1994  
Laboratory animal welfare a guide to reference  
tools, legal materials, organizations, federal  
agencies.

Nyberg, Cheryl; Porta, Maria A.; Boast, Carol  
Twin Falls, ID : BN Books,

## Quick Bibliography Series

xii, 389 p. ; 29 cm. "... partially supported by the U.S. Department of Agriculture, National Agricultural Library, Agreement No. 58-32U4-7-031, and by the University of Illinois at Urbana-Champaign", T.p. verso. Includes index.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare; Animal experimentation

96 NAL Call No: QL55.A1L3  
Laboratory animals: buyers' guide 1993.  
London : Royal Society of Medicine Services.  
Laboratory animals. 88 p.; 1993.

*Language:* English

*Descriptors:* Laboratory animals; Buyers' guides; Laboratory equipment

97 NAL Call No: 472 N42  
The laboratory rat's guide to Europe.  
MacKenzie, D.  
London, Eng. : New Science Publications.  
New scientist v. 134 (1821): p. 29-31; 1992 May16.

*Language:* English

*Descriptors:* Europe; Animal experiments; Regulations; Animal welfare; European communities; Animal testing alternatives

98 NAL Call No: QL55.A1L3  
LASA recommendations on education and training for licence holders under the UK Animals (Scientific Procedures) Act 1986, FELASA Categories B and C. Report of a committee accepted by LASA Council June 1992.  
O'Donoghue, P.N.; Bunyan, J.; Buckwell, A.C.; Gregory, J.A.; Griffiths, P.H.M.; Howard, B.R.; Jones, H.; Millican, K.G.; Wilson, M.S.; Brouwer, G.  
London : Royal Society of Medicine Services.  
Laboratory animals v. 27 (3): p. 189-205; 1993 Jul.

*Language:* English

*Descriptors:* Uk; Laboratory animals; Animal welfare; Guidelines

99 NAL Call No: 44.8 J822  
LEARNREPRO: a computer-assisted training program for teaching dairy reproduction management.  
Johnson, P.J.; Oltenacu, P.A.; Blake, R.W.

Champaign, Ill. : American Dairy Science Association.  
Journal of dairy science v. 75 (8): p. 2288-2293; 1992 Aug. Includes references.

*Language:* English

*Descriptors:* Dairy herds; Dairy education; Reproductive performance; Records; Computer assisted instruction

*Abstract:* LEARNREPRO consists of three computer software packages that were developed to improve dairy reproductive problem-solving skills by college students, professionals, and farmers. Tutorial drill and practice, and simulation approaches are utilized. The module REPRO-MEASURES covers six common DHI measures of herd reproductive performance. The USE-OF-RECORDS module integrates information from the previous module while presenting additional problem-solving strategies needed to analyze DHI reproductive records. The ESTRUS-DETECTION module addresses effective estrus detection strategies. User surveys have demonstrated the need for more use of this instructional approach. Educators are encouraged to use these modules and also to develop additional computer teaching programs to facilitate the development of problem-solving skills.

100 NAL Call No: 41.8 V641  
Legal cases involving birds: the role of the veterinary surgeon.  
Cooper, J.E.; Cooper, M.E.  
London : The Association.  
The Veterinary record : journal of the British Veterinary Association v. 129 (23): p. 505-507; 1991 Dec07. Includes references.

*Language:* English

*Descriptors:* Uk; Wild birds; Veterinarians; Law; Guidelines; Clinical examination; Postmortem examinations

101 NAL Call No: 1 AG84PRO  
Licensing and registration under the animal welfare act: guidelines for dealers, exhibitors, transporters, and researchers.  
Washington, D.C. : The Department.  
Program aid PA - U.S. Department of Agriculture v.): 20 p.; 1992 Apr.

*Language:* English

*Descriptors:* U.S.A.; Animal welfare; Law;



## Training Materials for Animal Personnel

Licenses; Usda; Regulation; Laboratory animals;  
Zoo animals

102 NAL Call No: SF89.G73 1992  
Livestock trucking guide livestock management  
practices that reduce injuries to livestock during  
transport.

Grandin, Temple

Livestock Conservation Institute

Madison, WI : Livestock Conservation Institute,  
16 p. : ill. ; 23 x 10 cm. Cover title. "By Temple  
Grandin", P. 3. Includes bibliographical references  
(p. 16).

*Language:* English

*Descriptors:* Livestock; Swine; Cattle; Sheep

103 NAL Call No: 275.29 G29L  
Management guide for the backyard flock.

Sander, J.E.; Lacy, M.P.

Athens, Ga. : The Service.

Leaflet - Cooperative Extension Service, University  
of Georgia (429): 12 p. ill; 1991 Aug.

*Language:* English

*Descriptors:* Georgia; Chicken meat; Poultry  
housing; Poultry diseases; Poultry feeding; Resi-  
dential areas

104 NAL Call No: SF408.M362 1992  
Management guidelines for bears and raccoons.

Partridge, John

Association of British Wild Animal Keepers

Eastville, Bristol U.K. : Association of British Wild  
Animal Keepers.

174 p. : ill. ; 21 cm. Editor: John Partridge. Includes  
bibliographical references (p. 170-171) and index.

*Language:* English

*Descriptors:* Bears; Raccoons; Zoo animals

105 NAL Call No: SF408.M36 1991  
Management guidelines for exotic cats.

Partridge, John

Association of British Wild Animal Keepers

Eastville, Bristol, UK : Association of British Wild  
Animal Keepers.

153 p. : ill. ; 21 cm. Editor: John Partridge. Bibli-  
ography: p. 150.

*Language:* English

*Descriptors:* Felidae; Zoo animals

106 NAL Call No: SF1.F64 no.104

The Management of global animal genetic re-  
sources proceedings of an FAO expert consulta-  
tion, Rome, Italy, April 1992. (Global animal  
genetic resources.)

Hodges, John

Rome : Food and Agriculture Organization of the  
United Nations.

vi, 309 p. : ill. ; 30 cm. (FAO animal production  
and health paper ; 104). Includes bibliographical  
references.

*Language:* English

*Descriptors:* Germplasm resources, Animal; Lives-  
tock; Animal genetics

107 NAL Call No: SF895.P76  
Management of spinal cord trauma.

Rucker, N.C.

Washington, D.C. : Fidja Research Foundation.

Progress in veterinary neurology v. 1 (4): p. 397-  
412; 1990. Includes references.

*Language:* English

*Descriptors:* Spinal cord; Trauma; Clinical examin-  
ation; Drug therapy; Medical treatment; Profes-  
sional continuing education; Prognosis;  
Physiopathology; Surgery

108 NAL Call No: SF401.E3R66 1994  
Managing elephants an introduction to the train-  
ing and management of elephants.

Roocroft, Alan; Zoll, Donald Atwell

Ramona, CA : Fever Tree Press.

198 p. : ill. ; 23 cm.

*Language:* English

*Descriptors:* Elephants

109 NAL Call No: HV4708.O56 1992  
A manual of standard operating procedures for  
animal facilities.

Olson, Merle E.; Morck, Douglas W.; Nabrotzky,  
Viola C. A.

Calgary, Alta. : Dept. of Animal Care Services,  
University of Calgary.

1 computer disk ; 3 1/2 in. + 1 sheet. Title from  
disk label.

*Language:* English

*Descriptors:* Animal welfare; Veterinary surgery;  
Laboratory animals

110 NAL Call No: KKH3122.V36 1990  
Manuale di polizia veterinaria e igiene degli

## Quick Bibliography Series

alimenti con prontuario sanzionatorio e modullistica aggiornati in base alla legge di depenalizzazione [A manual of veterinary policy and food hygiene]., 4. ed., aggiornata ed ampliata.

Vannucci, Velio; Silvestri, A.

Rimini : Maggioli,

479 p. : forms ; 24 cm. (Pratica professionale ; 5).

Includes index.

*Language:* Italian

*Descriptors:* Veterinarians; Legal status, laws, etc; Italy; Veterinary hygiene; Law and legislation; Italy

111 NAL Call No: 275.9 N213  
Meeting general education requirements for computing skills by revamping a science-based dairy management course.

Kazmer, G.W.

Urbana, Ill. : National Association of Colleges and Teachers of Agriculture.

NACTA journal v. 35 (4): p. 41-43; 1991 Dec. Includes references.

*Language:* English

*Descriptors:* Connecticut; Dairy education; Dairy science; Educational courses; Computer assisted instruction

112 NAL Call No: SF745.M4 1991  
The Merck veterinary manual a handbook of diagnosis, therapy, and disease prevention and control for the veterinarian., 7th ed.

Fraser, Clarence M.

Rahway, N.J. : Merck & Co.,

xxii, 1832 p. ; 19 cm. Includes index.

*Language:* English

*Descriptors:* Veterinary medicine

113 NAL Call No: SF781.C365 1993  
Microbial diseases a veterinarian's guide to laboratory diagnosis., 1st ed.

Carter, G. R.; Chengappa, M. M.

Ames, Iowa : Iowa State University Press,

xiv, 304 p. ; 22 cm. Includes index.

*Language:* English

*Descriptors:* Communicable diseases in animals; Veterinary clinical pathology

114 NAL Call No: HV4765.M4M7 1991  
MSPCA canister caretaker volunteer training manual., Rev. 5/91.

Massachusetts Society for the Prevention of

Cruelty to Animals

Boston, Mass. : Massachusetts Society for the Prevention of Cruelty to Animals,

1 v. (unpaged) : ill. ; 30 cm. Accompanied by 4 sheets and 2 journal articles.

*Language:* English

*Descriptors:* Volunteers

115 NAL Call No: 41.8 Am3  
New technique and management guidelines for percutaneous nonendoscopic tube gastrostomy.

Mauterer, J.V. Jr; Adood, S.K.; Buffington, C.A.; Smeak, D.D.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 205 (4): p. 574-579; 1994 Aug15. Includes references.

*Language:* English

*Descriptors:* Cats; Dogs; Tube feeding; Methodology; Veterinary equipment; Surgical operations; Guidelines; Postoperative complications

116 NAL Call No: SF401.C2O53 1992  
The One-humped camel (Camelus dromedarius) in eastern Africa a pictorial guide to diseases, health care and management.

Schwartz, H. J.; Dioli, M.

Weikersheim, FR Germany : J. Margraf,

282 p. : ill. (some col.) ; 31 cm. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Camels; Camels

117 NAL Call No: 275.29 G29B  
Ostrich management guide.

Bastien, R.W.

Athens, Ga. : The Service.

Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture (1048): 8 p. ill; 1991 Feb. Includes references.

*Language:* English

*Descriptors:* Ostriches; Animal breeding; Incubation; Animal feeding

118 NAL Call No: 41.8 AM3  
An overview of new guidelines on the use and dispensing of veterinary drugs.

Sterner, K.E.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical As-

## Training Materials for Animal Personnel

sociation v. 198 (5): p. 825-826; 1991 Mar01. Paper presented at the "Symposium on Prevention of Unwanted Drug Residues," 1989, Orlando, Florida.

*Language:* English

*Descriptors:* Drugs; Guidelines; Veterinarians

119 NAL Call No: aSF601.U5  
Peace Corps veterinarians in Morocco.

Prouty, C.

Hyattsville, Md. : The Programs.

Foreign animal disease report - U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Veterinary Services, Emergency Programs (19-1): p. 7-8; 1991.

*Language:* English

*Descriptors:* Morocco; U.S.A.; Animal diseases; Disease control; Educational programs; Public agencies; Volunteers; Veterinarians; Federal programs; Technical aid; Cooperative activities; Veterinary services

120 NAL Call No: SF459.S9W35 1992  
Pet pigs advice on management, training and health care.

Walton, J. R.; Carr, John; Duran, Oliver  
Liverpool : Liverpool University Press.,  
viii, 30 p. : ill. ; 24 cm. Includes bibliographical references (p. 27) and index.

*Language:* English

*Descriptors:* Swine; Pets

121 NAL Call No: SF395.B42  
Pigs a guide to management.

Beynon, Neville

Wiltshire : Crowood.

175 p. : ill. ; 22 cm. Includes bibliographical references (p. 167-168) and index.

*Language:* English

*Descriptors:* Swine

122 NAL Call No: SF493.M54 1992  
Poultry breeders directory a resource guide for backyard poultry keepers and pure breed fanciers., 2nd ed.

Miller, Megg

Euroa, Vic. : Night Owl Publishers.,

72 p. : ill. ; 21 cm.

*Language:* English

*Descriptors:* Poultry

123 NAL Call No: SF995.84.P76 1992  
Proceedings American Association of Zoo Veterinarians and American Association of Wildlife Veterinarians, joint conference November 15-19, 1992, [Oakland, California]. (Joint conference American Association of Zoo Veterinarians and American Association of Wildlife Veterinarians AAZV/AAWV annual proceedings 1992.)

Junge, Randall E.

American Association of Zoo Veterinarians, American Association of Wildlife Veterinarians  
S.l. : s.n.,

404 p. : ill. ; 28 cm. Cover title: Proceedings joint conference American Association of Zoo Veterinarians and the American Association of Wildlife Veterinarians. Spine title: AAZV/AAWV annual proceedings 1992. Includes bibliographies and index.

*Language:* English

*Descriptors:* Zoo animals; Veterinary medicine; Wildlife diseases

124 NAL Call No: SF771.P76 1990  
Proceedings of commercial diagnostic technology in animal health monitoring May 3-4, 1990, Scheman Building, Iowa State University, Ames, Iowa.

Bunn, Thomas; Hoffman, Lorraine

Iowa State University, Veterinary Diagnostic Laboratory, National Veterinary Services Laboratories (U.S.)

Ames, Iowa : Iowa State University.,

iv, 241 p. : ill. ; 28 cm. Prepared by Mary Holz-Clause, Kerry Gibson and Valerie King and assisted by Teri Manley and Michelle Gaertner. Includes bibliographical references.

*Language:* English

*Descriptors:* Veterinary medicine; Animal health technology

125 NAL Call No: SF994.A87 1990  
Proceedings of the 1990 Annual Conference of the Association of Avian Veterinarians Phoenix, Arizona, September 10-15, 1990.

Association of Avian Veterinarians. Conference (1990 : Phoenix, Ariz.)

Lake Worth, FL : The Association.,

538 p. : ill. ; 28 cm. Includes bibliographical refer-

## Quick Bibliography Series

ences and index.

*Language:* English

*Descriptors:* Birds; Cage birds

126 NAL Call No: 41.8 Am3  
Putting "essence" into veterinary continuing education: facilitation skills for continuing education program presenters to accommodate adult learning styles.

Fassig, S.M.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 209 (9): p. 1326-1328; 1994 May01. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Continuing education; Adult learning; Teaching skills

127 NAL Call No: 41.8 Am3  
Putting "essence" into veterinary continuing education: making a presentation session a positive learning experience for the facilitator.

Fassig, S.M.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 204 (10): p. 1548-1550; 1994 May15. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Continuing education; Learning experiences; Teachers

128 NAL Call No: Z7994.L3A5  
Reduction of animal experiments in education in the Netherlands.

Nab, J.

Nottingham : Fund for the Replacement of Animals in Medical Experiments.

Alternatives to laboratory animals : ATLA v. 18: p. 57-63; 1990 Nov. Includes references.

*Language:* English

*Descriptors:* Netherlands; Cabt; Laboratory animals; Education

*Abstract:* From an academic point of view the use of animals in education is primarily as tools to achieve learning objectives. The introduction of alternatives in education requires an appreciation of both the learning objectives of these animal experiments and the possibilities and limitations of alternatives. In the Netherlands, a government-funded

project is in progress, with the aim of developing the use of alternatives to animal experiments in education. The numbers of animals used for educational purposes was reduced by 40%, in the period 1978-1988. This paper presents an overview of the objectives of the use of animals for experiments in education and of the alternatives currently available to academia.

129 NAL Call No: QL55.R44 1993  
Refinement and reduction in animal testing proceedings of a conference held in Philadelphia, Pennsylvania, September 17-18, 1992.

Niemi, Steven M.; Willson, John E.

Scientists Center for Animal Welfare (Bethesda, Md.)

Bethesda, Md. : Scientists Center for Animal Welfare,.

iv, 138 p. : ill. ; 23 cm. June 1993. Cover title: Proceedings of a conference held by the Scientists Center for Animal Welfare on September 17-18, 1992 in Philadelphia, Pennsylvania. Page 109 omitted from original published volume, distributed later as erratum. Includes bibliographical references.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare

130 NAL Call No: QL55.H8  
Replacement of laboratory animals in an introductory-level psychology laboratory.

Cohen, P.S.; Block, M.

Washington Grove, MD : Psychologists for the Ethical Treatment of Animals.

Humane innovations and alternatives v. 5: p. 221-225; 1991. Includes references.

*Language:* English

*Descriptors:* Laboratory animals; Animal testing alternatives; Teaching materials; Psychology; Educational courses

131 NAL Call No: SF407.P7R86 1992  
Research protocol & technician's manual a guide to the care, feeding, & evaluation of infant monkeys. (Research protocol and technician's manual.), 2nd ed.

Ruppenthal, Gerald C.; Sackett, Gene P.

University of Washington, Infant Primate Research Laboratory

Seattle, Wash. : Infant Primate Research Laboratory at the University of Washington,.

83, [60] p. : ill. ; 28 cm. Includes bibliographical

## Training Materials for Animal Personnel

references.

*Language:* English

*Descriptors:* Primates; Primates as laboratory animals

132 NAL Call No: 41.8 AM3  
Research training for veterinarians and graduate education in veterinary medical colleges.

Cornelius, C.E.; Biery, D.N.; Easterday, B.C.; McGuire, T.C. Jr; Pedersen, N.C.; Phemister, R.D.; Pritchard, W.R.

Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 202 (9): p. 1368-1372; 1993 May01. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Veterinary education; Animal experiments; Veterinarians; Graduate study; Veterinary schools

133 NAL Call No: HV4933.T4U5  
Responsible care and use of animals in research and training institutional animal care training program. (Institutional animal care training program.)

University of Texas Health Science Center at San Antonio

San Antonio, Tex. : University of Texas Health Science Center at San Antonio, [1990?].

36 p. : ill. ; 30 cm.

*Language:* English

*Descriptors:* Laboratory animals; Animal welfare; Animal models in research; Bioethics

134 NAL Call No: SF407.R6R63 1994  
Rodents and rabbits current research issues : proceedings of a conference sponsored by SCAW and WARDS held in Washington, D.C. on May 21, 1993.

Niemi, Steven M.; Venable, Joseph S.; Guttman, Helene N.

Scientists Center for Animal Welfare, Working with Animals Used in Research, Drugs, and Surgery

Greenbelt, MD (7833 Walker Dr., Suite 340, Greenbelt 20770) : Scientists Center for Animal Welfare ; Washington, DC (1660 L St. N.W., #612, Washington 20036) : WARDS,

iii, 81 p. : ill. ; 28 cm. Includes bibliographical references.

*Language:* English

*Descriptors:* Rodents as laboratory animals; Rabbits as laboratory animals; Animal experimentation; Animal welfare

135 NAL Call No: SF601.J62  
Strategic positioning of the veterinary profession for the needs of the 1990s and beyond.

Pritchard, W.R.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.

Journal of veterinary medical education v. 18 (1): p. 6-10; 1991. Includes references.

*Language:* English

*Descriptors:* Veterinary profession; Veterinary medicine; Veterinarians; Veterinary education; Veterinary schools; Research

136 NAL Call No: HV4704.S85 1990  
Summary proceedings of a workshop on the care and husbandry of captive chimpanzees.

Rowan, Andrew N.; Moore, Deborah E.

Tufts University, Center for Animals and Public Policy

N. Grafton, MA : Tufts Center for Animals and Public Policy, Tufts School of Veterinary Medicine,

v, 40 p. ; 28 cm. (Report (Tufts University. Center for Animals and Public Policy) ; no. 6). May 1990. Cover title. Workshop held at Tufts University School of Veterinary Medicine on May 10 and 11, 1989. Includes bibliographical references.

*Language:* English

*Descriptors:* Chimpanzees as laboratory animals

137 NAL Call No: SF601.J62  
Survey of the surgical curricula of veterinary colleges.

Hartmann, E.P.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.

Journal of veterinary medical education v. 17 (1): p. 8-10; 1990. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Veterinary education; Surgery; College curriculum; Surveys; Laboratory animals; Teaching methods; Animal testing alternatives; Animal welfare

138

NAL Call No: SF601.J62

## Quick Bibliography Series

**Survival vs. terminal animal laboratories to teach small animal surgery.**

Bauer, M.S.; Glickman, N.; Salisbury, S.K.; Toombs, J.P.; Prostedny, J.M.

Blacksburg, Va. : The Association of American Veterinary Medical Colleges.

Journal of veterinary medical education v. 19 (2): p. 54-58; 1992. Includes references.

*Language:* English

*Descriptors:* Dogs; Cats; Surgery; Teaching methods; Animal experiments; Cadavers; Euthanasia; Survival; Veterinary education; College students; Attitudes; Beliefs; Learning experiences; Academic achievement; Animal welfare

139 NAL Call No: QL55.I5

**The symbiosis of legislation and of voluntary control, the Canadian experience.**

Rowsell, H.C.

Sussex : The Institute.

Animal technology : journal of the Institute of Animal Technology v. 42 (1): p. 1-10; 1991 Apr. Includes references.

*Language:* English

*Descriptors:* Canada; Animal experiments; Laboratory animals; Teaching; Training; Testing; Legislation; Regulations; Animal welfare

140 NAL Call No: SF604.P82 no.132  
**Symposium on Tuberculosis Palmerston North, April 1991.**

Jackson, Ron

New Zealand Veterinary Association, Foundation for Continuing Education, New Zealand Veterinary Association, Epidemiology and Animal Health Management Branch, New Zealand Veterinary Association, State Veterinarians Branch  
Symposium on Tuberculosis 1991 : Palmerston North, N.Z.

Palmerston North [N.Z.] : Veterinary Continuing Education, Massey University, [1991?].

293 p. : ill., maps ; 29 cm. (Publication (Massey University. Veterinary Continuing Education) ; no. 132.). Includes bibliographical references and index.

*Language:* English

*Descriptors:* Tuberculosis in animals

141 NAL Call No: QL55.I5  
**Technicians and the use of animals for teaching purposes.**

Close, B.S.

Sussex : The Institute.

Animal technology : journal of the Institute of Animal Technology v. 41 (3): p. 223-228; 1990 Dec. Includes references.

*Language:* English

*Descriptors:* Technicians; European communities; Education; Animals; Animal welfare

142 NAL Call No: DISS F1992272

**Die tierärztliche Ausbildung im Urteil von Examenskandidaten (1984/1985) und approbierten Tierärzten (1990) eine vergleichende Untersuchung bei Absolventen der Tierärztlichen Hochschule Hannover vor dem Hintergrund der Entwicklung des tierärztlichen Berufes und der Ausbildung [An assessment of veterinary medical training based on doctoral candidates (1984/1985) and licensed veterinarians (1990)].**

Witthoft, Sibylle

Hannover : [s.n.].

285 p. : ill. ; 21 cm. Summary in English. Includes bibliographical references (p. 230-250).

*Language:* German

143 NAL Call No: SF601.V523

**Trainers and chokers: how dog trainers affect behavior problems in dogs.**

Myles, S.

Philadelphia, Pa. : W.B. Saunders Company.

The Veterinary clinics of North America : Small animal practice v. 21 (2): p. 239-246; 1991 Mar. In the series analytic: Advances in companion animal behavior /-edited by A.R. Marder and V. Voith.

*Language:* English

*Descriptors:* Dogs; Behavior problems; Training of animals; Training officers; Veterinarians

144 NAL Call No: QL55.A1L33

**Training by microchip in the animal facility.**

Miller, L.

New York, N.Y. : Nature Publishing Company.

Lab animal v. 21 (2): p. 37-41; 1992 Feb.

*Language:* English

*Descriptors:* Technicians; Training; Computer techniques

145 NAL Call No: Videocassette no.1315  
**Training corral-living rhesus monkeys for fecal and blood sample collection Jeff Falkenstein Pro-**

## Training Materials for Animal Personnel

ductions ; M.R. Clarke ... [et al.].

Clarke, M. R.

Delta Regional Primate Research Center, Jeff  
Falkenstein Productions

Covington, LA : Falkenstein Productions : Delta  
Regional Primate Research Center.,

1 videocassette (27 min.) : sd., col. ; 1/2 in. + 1  
article reprint (3 p.).

*Language:* English

*Descriptors:* Blood; Feces; Rhesus monkey; Animal  
welfare; Laboratory animals; Primates

*Abstract:* This videotape shows the acclimation techniques to reduce stress for corral-living rhesus monkeys (*Macaca mulatta*) when collecting fecal and blood samples. The monkeys are given food rewards in return for defecation in single holding cages. They also are trained to extend their leg through a modified squeeze cage for unanesthetized bleeding from the saphenous vein. Once the acclimation is completed, the animals are shown to be relaxed during the procedure. One adult female continued to nurse her neonate infant through the venipuncture. This behavior modification is intended to reduce stress and increase safety for the animals and the technicians. This tape also provides a look at the corral facility at the Delta Regional Primate Research Center at Tulane University.

146

NAL Call No: QL55.I5

Training in laboratory animal medicine and science: the Canadian situation.

McLaughlin, S.

Sussex : The Institute.

Animal technology : journal of the Institute of  
Animal Technology v. 41 (3): p. 181-190; 1990 Dec.  
Includes references.

*Language:* English

*Descriptors:* Canada; Technical training; Veterinary  
education; Technicians; Veterinarians; Research  
workers; Laboratory animals

*Abstract:* Education of technicians, investigators and laboratory animal veterinarians is a matter of increasing concern in Canada. Three basic training models exist for technicians: full-time college programs, in-house courses and a cooperative venture involving a community college (St. Lawrence, Kingston) and participating laboratory animal facilities coast-to-coast across Canada. CALAS/ACTAL maintains a technician registry. Training of investigators is all done currently in-

house. In some universities, this training is mandatory. The CCAC syllabus provides guidelines for such training courses. Currently there is not a registry for investigators. There are limited opportunities in Canada for postdoctoral training in laboratory animal medicine for veterinarians. The situation is under review by CALAM which is conducting a needs assessment. Canadian laboratory animal veterinarians seeking recognition for specialised training must do so currently by writing to the Board examination of the American College of Laboratory Animal Medicine (ACLAM).

147

NAL Call No: aZ5071.N3

Training material for animal facility personnel,  
January 1989-January 1994.

Allen, T.

Beltsville, Md., National Agricultural Library.

Quick bibliography series - National Agricultural  
Library (94-17): 60 p.; 1994 Mar. Updates QB 91-  
107.07.

*Language:* English

*Descriptors:* Animals; Laboratories; Research;  
Careproviders; Workers; Training; Teaching materials;  
Bibliographies

148

NAL Call No: aZ5071.N3

Training materials for animal facility, personnel  
January 1979 - August 1990.

Clingerman, K.J.

Beltsville, Md. : The Library.

Quick bibliography series - U.S. Department of  
Agriculture, National Agricultural Library (U.S.).  
(91-07): 18 p.; 1990 Oct. Bibliography.

*Language:* English

*Descriptors:* Animal husbandry; Farm workers

149

NAL Call No: SF914.A53 1990

Training of animal care and use personnel: principles  
and program implementation.

Anderson, L.C.; Brown, M.J.

Columbia, Md. : American College of Laboratory  
Animal Medicine, 1990? .:

Anesthesia and analgesia in laboratory animals :  
proceedings , 1990 Forum, American College of  
Laboratory Animal Medicine, Columbia Inn, Co-  
lumbia, Maryland, May 3-6, 1990. p. 113-115; 1990.

*Language:* English

*Descriptors:* Training; Technicians; Animal hus-  
bandry

## Quick Bibliography Series

150 NAL Call No: SF407.M37B68  
The UFAW handbook on the care and management of cephalopods in the laboratory. (Care and management of cephalopods in the laboratory Care & management of cephalopods in the laboratory.)  
Boyle, P. R.  
Universities Federation for Animal Welfare  
Potters Bar, Herts. [England] : Universities Federation for Animal Welfare.,  
63 p. : ill. ; 25 cm. Includes bibliographical references (p. 53-58).

*Language:* English

*Descriptors:* Marine invertebrates as laboratory animals; Cephalopoda

151 NAL Call No: HV4959.N45U83 1990  
The Use and welfare of experimental animals proceedings of the symposium held at the Royal Society of New Zealand, May 1989.  
Royal Society of New Zealand  
Wellington, N.Z. : The Society.,  
85 p. : 1 ill. ; 30 cm. (Miscellaneous series (Royal Society of New Zealand) ; 22.). Includes bibliographical references.

*Language:* English

*Descriptors:* Animal experimentation; Laboratory animals

152 NAL Call No: SF406.U84  
The Use of animals at Cornell University a policies and procedures manual.  
Cornell University, Center for Research Animal Resources  
Ithaca, N.Y.? : Cornell University, [1990?]-.  
1 v. (loose-leaf) : ill. ; 30 cm. "Center for Research Animal Resources is responsible for developing this manual, updating and supplementing it as necessary, ...", P. [5]. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Laboratory animals; Animal experimentation; Animal welfare; Animal models in research

153 NAL Call No: Z7994.L3A5  
The use of animals in behavioural science education in the USA: finding alternatives that address personal concerns and ethical dilemmas.  
Cohen, P.S.; Block, M.L.

Nottingham : Fund for the Replacement of Animals in Medical Experiments.  
Alternatives to laboratory animals : ATLA v. 18: p. 51-56; 1990 Nov. Includes references.

*Language:* English

*Descriptors:* U.S.A.; Cabt; Laboratory animals; Bioethics; Science education

*Abstract:* In this paper, we describe our efforts to develop a humanitarian approach to the teaching of behavioural science using animals. Reduction, replacement and refinement of animal use in education are most useful if they help reconnect students and teachers with their underlying feelings, attitudes and ethical values related to animal usage. In order to initiate this reconnection process, we established the Northeastern University Center for Science Education (NUCASE) to encourage the dissemination of information and the development of projects that address ethical issues in college science curricula. Two directions that NUCASE has piloted using a humanitarian approach are outlined: an alternative to the traditional animal laboratory course in learning that uses student-run field experiments with feral pigeons in a park; and a conference designed to promote open interchange about personal concerns and ethical dilemmas in the use of animals in education.

154 NAL Call No: SF601J62  
Use of the laboratory rabbit in the small animal student surgery laboratory.  
Boothe, H.W.; Hartsfield, S.M.  
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.  
Journal of veterinary medical education v. 17 (1): p. 16-18; 1990. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Surgery; Rabbits; Anesthesia; Surgical operations; Learning experiences; Animal anatomy; Animal testing alternatives

155 NAL Call No: SF601.V523  
A user's guide to veterinary surgical pathology laboratories or, why do I still get a diagnosis of chronic dermatitis even when I take a perfect biopsy?  
Dunstan, R.W.  
Philadelphia, Pa. : W.B. Saunders Company.  
The Veterinary clinics of North America : Small



## Training Materials for Animal Personnel

animal practice v. 20 (6): p. 1397-1417; 1990 Nov. In the series analytic: Advances in Clinical dermatology / edited by D.J. DeBoer. Includes references.

*Language:* English

*Descriptors:* Small animal practice; Dogs; Dermatology; Pathology; Skin; Biopsy; Laboratory methods; Skin diseases; Diagnosis; Tissues; Animal tissues; Histopathology; Fixation; History

**156** NAL Call No: HV4928.U84 1992  
**Using animals in intramural research guidelines for investigators.**

NIH Animal Care and Use Committee, NIH Training Center (U.S.)  
Bethesda, Md. : NIH Animal Care and Use Committee : NIH Training Center; HE 20.3008:AN 5/3/92.

1 v. (various pagings) : ill. ; 28 cm. Cover title. Shipping list no.: 92-0682-P. Includes bibliographical references.

*Language:* English

*Descriptors:* Laboratory animals; Animal experimentation; Animal welfare

**157** NAL Call No: 41.8 Am3  
**Veterinarians as animal advocates during disasters: The California Veterinary Medical Association's disaster response program.**

Marshall, K.; Norman, B.B.; Schumacher, R.; Sahara, R.; Robertson, V.  
Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 203 (7): p. 1002-1005; 1993 Oct01. Paper presented at the "Symposium on Disaster Medicine", Minneapolis, Minnesota. Includes references.

*Language:* English

*Descriptors:* California; Cabt; Veterinarians; Disasters; Fires; Planning; Guidelines

**158** NAL Call No: 41.8 Am3  
**The veterinarian's role in the AIDS crisis.**

Gill, D.M.; Stone, D.M.  
Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 201 (11): p. 1683-1684; 1992 Dec01. Includes references.

*Language:* English

*Descriptors:* Pets; Zoonoses; Acquired immune

deficiency syndrome; Disease prevention; Guidelines; Veterinarians

**159** NAL Call No: 41.8 R3224  
**A veterinarians's guide to the correction of dominance aggression.**

Landsberg, G.

Ottawa : Canadian Veterinary Medical Association.

The Canadian veterinary journal v. 31 (2): p. 121-124. ill; 1990 Feb. Includes references.

*Language:* English

*Descriptors:* Dogs; Aggressive behavior; Social dominance; Behavior modification; Guidelines; Behavior problems

**160** NAL Call No: SF1.F64 no.81  
**Veterinary diagnostic bacteriology a manual of laboratory procedures for selected diseases of livestock.**

Alton, G. G.

Food and Agriculture Organization of the United Nations

Rome : Food and Agriculture Organization of the United Nations,.

ix, 200 p. ; 21 cm. (FAO animal production and health paper ; 81). Includes bibliographical references.

*Language:* English

*Descriptors:* Veterinary medicine; Veterinary clinical pathology; Livestock

**161** NAL Call No: 41.8 AM3  
**The veterinary medical/health sciences library as a continuing education opportunity for veterinarians.**

Lee, T.P.

Schaumburg, Ill. : The Association.

Journal of the American Veterinary Medical Association v. 202 (3): p. 381-383; 1993 Feb01. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Continuing education

**162** NAL Call No: 41.8 J8292  
**Veterinary pathology, the benefits and the cost.**

Kelly, D.F.

London : British Veterinary Association.

The Journal of small animal practice v. 35 (2): p. 65-67; 1994 Feb.

## Quick Bibliography Series

*Language:* English

*Descriptors:* Veterinary medicine; Pathology; Training; Veterinarians

163 NAL Call No: HV4704.W38 1990  
**The Well-being of agricultural animals in biomedical and agricultural research proceedings from a SCAW-sponsored conference, Agricultural Animals in Research, held September 6-7, 1990 in Washington, D.C., with additional material provided by the authors. (Well being of agricultural animals in biomedical and agricultural research.)** Mench, Joy A.; Mayer, Stephen J.; Krulisch, Lee  
Scientists Center for Animal Welfare (Washington, D.C.), Animal Welfare Information Center (U.S.) Bethesda, MD : Scientists Center for Animal Welfare,  
viii, 112 p. : ill. ; 28 cm. February 1992. The National Agricultural Library's Animal Welfare Information Center through Specific Cooperative agreement no. 58-32U4-0-36 helped make this publication possible. Includes bibliographical references and index.

*Language:* English

*Descriptors:* Laboratory animals; Livestock; Animal experimentation; Animal welfare

164 NAL Call No: 41.8 AM3  
**What industry needs: a broad, problem-solving education in animal health.** Welser, J.R.  
Schaumburg, Ill. : The Association.  
Journal of the American Veterinary Medical Association v. 200 (3): p. 298-301; 1992 Feb01. Paper presented at the " Public and Corporate Veterinary Practice Symposium, Sept. 15-17, 1991, College Park, Maryland. Includes references.

*Language:* English

*Descriptors:* Veterinary education; Veterinary profession; Veterinarians; Animal health

165 NAL Call No: SF601.J62  
**The Wisconsin senior rotation in ambulatory service: a new approach to on-farm instruction in large animal medicine, surgery, and herd health management.** MacWilliams, P.S.; Easterday, B.C.; McGuirk, S.M.  
Blacksburg, Va. : The Association of American Veterinary Medical Colleges.

Journal of veterinary medical education v. 19 (1): p. 15-18; 1992. Includes references.

*Language:* English

*Descriptors:* Wisconsin; Veterinary education; On-farm training; Veterinary medicine; College curriculum; Large animal practice; Clinical experience; Practical education; Livestock; Teaching methods

166 NAL Call No: 41.8 V643  
**Working within the law: guidelines for veterinary surgeons and wildlife rehabilitators on the rehabilitation of wild mammals.** Harris, S.; Jefferies, D.J.  
London : Bailliere Tindall.  
British veterinary journal v. 47 (1): p. 1-17; 1991 Jan. Includes references.

*Language:* English

*Descriptors:* Uk; Wild animals; Wildlife management; Rehabilitation; Veterinary jurisprudence

*Abstract:* In recent years there has been a considerable increase in the numbers of both veterinary surgeons and wildlife rehabilitators involved in the care and rescue of wildlife. Several publications are available offering practical advice on what to do, but many of the people working in this field are unclear as to which laws apply to wildlife rehabilitation. This paper provides a summary of the legal position as it relates to the rehabilitation of wild mammals in Britain. The present review updates and summarizes current information on the sources, solubility and toxicity of lead and its compounds, their concentration in blood, milk and various tissues and organs of the body and finally their excretion. Areas requiring further studies are also identified.

167 NAL Call No: SF406.3.W67 1993  
**Workshop proceedings approaches to the design and development of cost-effective laboratory animal facilities : a workshop sponsored by the Canadian Council on Animal Care, Ottawa, Ontario, June 9-11, 1993. (Approaches to the design and development of cost-effective laboratory animal facilities.)** McKay, Donald G.; Neil, David H.  
Canadian Council on Animal Care  
Ottawa, Ont. : Canadian Council on Animal Care, [1993?].  
xvi, 274, [31] p. : ill. ; 28 cm. Includes bibliographical references.

## Training Materials for Animal Personnel

*Language:* English

*Descriptors:* Laboratory animals

## Author Index

- Abramson, Charles I. 89  
Adams, M. 63  
Adood, S.K. 115  
Adsit, K.I. 59  
Albin, R. C. 23  
Allen, T. 147  
Alton, G. G. 160  
American Association of Swine Practitioners 19  
American Association of Zoo Veterinarians,  
American Association of Wildlife  
Veterinarians 123  
American Association of Zoo Veterinarians.  
Veterinary Standards Committee 74  
American College of Laboratory Animal  
Medicine, Abbott Laboratories 2  
American College of Laboratory Animal  
Medicine. Forum (1990 : Columbia, Md.) 2  
American Professional Pet Distributors, Inc 83  
Anderson, L.C. 149  
Association for the Study of Animal Behaviour,  
Animal Behavior Society 58  
Association of Avian Veterinarians. Conference  
(1990 : Phoenix, Ariz.) 125  
Association of British Wild Animal Keepers 104,  
105  
Australian Association of Cattle Veterinarians,  
University of Sydney, Post-Graduate Commit-  
tee in Veterinary Science 48  
Bader, J.D. 10  
Barnes, Charles D., 40  
Barnes, Charles D., 1935- 40  
Bastien, R.W. 117  
Bauer, M.S. 138  
Beasley, V. 44  
Becker, H. Neil 19  
Beckett, S.D. 27  
Bennett, B. T. 57  
Bennett, P.M. 72  
Berg, J. 9  
Beynon, Neville 121  
Beynon, Peter H. 85  
Biery, D.N. 132  
Blake, R.W. 99  
Block, M. 130  
Block, M.L. 153  
Bloomsmith, M.A. 70  
Boast, Carol 95  
Bonnett, B. 47  
Boothe, H.W. 154  
Borchard, Ronald E. 40  
Boyle, P. R. 150  
Branch, C.E. 27  
Brent, L.Y. 70  
British Small Animal Veterinary Association 85  
Brouwer, G. 98  
Brown, M. J. 57  
Brown, M.J. 69, 149  
Brown, Robert D. 14  
Buckwell, A.C. 98  
Buffington, C.A. 115  
Bundesinstitut fur Berufsbildung 56  
Bunn, Thomas 124  
Bunyan, J. 75, 98  
Canadian Council on Animal Care 67, 167  
Carr, John 120  
Carrigan, Mark 88  
Carter, G. R. 113  
Chengappa, M. M. 113  
Chiasson, Robert B. 93  
Clarke, M. R. 145  
Clifton, M. 37  
Clingerman, K.J. 148  
Close, B.S. 141  
Cohen, P.S. 130, 153  
Cooper, J.E. 100  
Cooper, M.E. 100  
Cornelius, C.E. 132  
Cornell University, Center for Research Animal  
Resources 152  
Cross, Brenda M. 67  
Curtis, John L. 22  
Davidson, C.J. 54  
Dawkins, Marian Stamp 58  
Delta Regional Primate Research Center, Jeff  
Falkenstein Productions 145  
Dioli, M. 116  
Dowling, Kim 15  
Dunstan, R.W. 155  
Duran, Oliver 120  
Dye, L. 29  
Dyer, K.R. 8  
Easterday, B.C. 132, 165  
Edwards, N. Joel 43  
Eller, A.L. Jr 11  
Eltherington, L. G. 40  
Environmental Research Laboratory (Athens,  
Ga.) 61  
Fassig, S.M. 126, 127  
Fawver, A.L. 27  
Ferguson, J.D. 87  
Fitzgerald, A.L. 36  
Food and Agriculture Organization of the United  
Nations 160  
Francione, G.L. 84  
Fraser, Clarence M. 112  
Frye, Fredric L. 18

## Quick Bibliography Series

- Gascoyne, S.C. 72  
 Gill, D.M. 158  
 Glickman, N. 138  
 Gloyd, J.S. 41  
 Gosling, Morris 58  
 Grandin, Temple 102  
 Gray, K.N. 59  
 Green, Margaret C. 80  
 Greene, S.A. 32  
 Gregory, J.A. 98  
 Griffiths, P.H.M. 98  
 Guitani, A. 94  
 Guttman, Helene N. 73, 134  
 Harris, S. 166  
 Harris, T. 29  
 Hartmann, E.P. 137  
 Hartsfield, S.M. 154  
 Hau, Jann 78  
 Hawkey, C.M. 72  
 Hedrich, Hans J. 63  
 Herrick, J.B. 21  
 Hibbert, Chris 48  
 Hodges, John 106  
 Hoffman, Lorraine 124  
 Hoover, T.S. 54  
 Howard, B.R. 98  
 Hughes, K.L. 42  
 Institute of Biology 75  
 Institute of Laboratory Animal Resources (U.S.),  
 Committee on Care and Use of Laboratory  
 Animals 65  
 Institute of Laboratory Animal Resources (U.S.),  
 Committee on Educational Programs in Lab-  
 oratory Animal Science 46  
 Institute of Laboratory Animal Resources (U.S.),  
 Committee on Infectious Diseases of Mice and  
 Rats 26  
 International Council for Laboratory Animal  
 Science 63  
 Iowa State University, Veterinary Diagnostic Lab-  
 oratory, National Veterinary Services Labora-  
 tories (U.S.) 124  
 Jackson Laboratory (Bar Harbor, Me.) 80  
 Jackson, Ron 140  
 Jefferies, D.J. 166  
 Jenkins, W.L. 45  
 Jevring, C. 39  
 Johns Hopkins University, School of Hygiene and  
 Public Health 3  
 Johnson, P.J. 87, 99  
 Jones, H. 98  
 Jones, William Elvin 25  
 Junge, Randall E. 123  
 Kazmer, G.W. 111  
 Kelly, D.F. 162  
 Kiley-Worthington, M. 12  
 Kirkwood, J.K. 72  
 Knapp, D. 9  
 Kosanke, S.D. 28  
 Krulisch, Lee 163  
 Laboratory Animal Training Association 31  
 Lacy, M.P. 103  
 Landsberg, G. 159  
 LeBlanc, Michelle 55  
 Lee, T.P. 161  
 Lesile, K. 35  
 Livestock Conservation Institute 102  
 Lloyd, Maggie 77  
 MacKenzie, D. 97  
 MacWilliams, P.S. 165  
 Maikel, R.P. 36  
 Marshall, K. 16, 157  
 Marshall, Rob 66  
 Massachusetts Society for the Prevention of  
 Cruelty to Animals 114  
 Massey University, New Zealand Veterinary As-  
 sociation, State Veterinarians Branch, New  
 Zealand Veterinary Association, Foundation  
 for Continuing Education 7  
 Mastromarino, A.J. 59  
 Mauterer, J.V. Jr 115  
 Maxie, G. 47  
 Mayer, Stephen J. 163  
 McGuire, T.C. Jr 132  
 McGuirk, S.M. 165  
 McKay, Donald G. 167  
 McKinnon, A. O. 55  
 McLaughlin, Charles Albert, 93  
 McLaughlin, S. 146  
 McMains, Joel M. 91  
 McWilliam, A. Ann 67  
 Mench, Joy A. 163  
 Meuten, D.J. 34  
 Miller, L. 144  
 Miller, Megg 122  
 Millican, K.G. 98  
 Milne, I. 42  
 Mississippi State University, Dept. of Wildlife and  
 Fisheries 14  
 Monroe, A.C. 60  
 Moore, Deborah E. 136  
 Morck, Douglas W. 109  
 Myles, S. 143  
 Nab, J. 128  
 Nabrotzky, Viola C. A. 109  
 National Agricultural Library (U.S.), University of  
 Illinois at Chicago 57

## Author Index

- National Buffalo Association 15  
National Institutes of Health (U.S.) 86  
Neil, David H. 167  
New Zealand Veterinary Association, Foundation for Continuing Education, New Zealand Veterinary Association, Epidemiology and Animal Health Management Branch, New Zealand Veterinary Association, State Veterinarians Branch 140  
Niekraz, M.A. 28  
Niemi, Steven M. 129, 134  
NIH Animal Care and Use Committee, NIH Training Center (U.S.) 156  
Nolt, B.H. 54  
Norman, B. 16  
Norman, B.B. 157  
Nyberg, Cheryl 95  
O'Donoghue, P.N. 98  
O'Neil, E.H. 10  
Olfert, Ernest D. 67  
Olson, Merle E. 109  
Oltenacu, P.A. 87, 99  
Orlans, F.B. 81  
Partridge, John 104, 105  
Pavletic, M.M. 9  
Pearson, P.T. 69  
Pedersen, N.C. 132  
Perry, M.A. 28  
Petersen, Gunner V. 7  
Phatak, A.P. 64  
Phemister, R.D. 132  
Plumb, D.C. 38  
PMI Feeds, Inc 5  
Porta, Maria A. 95  
Porter, R.I. 33  
Pritchard, W.R. 132, 135  
Prostredny, J.M. 138  
Prouty, C. 119  
Public Responsibility in Medicine and Research (Association), Tufts University, School of Medicine, Tufts University, School of Veterinary Medicine 4  
Randolph, M.M. 28  
Ray, C.M. 29  
Reeves, David E. 19  
Regional Veterinary Laboratory, Orange, NSW Agriculture, Veterinary Laboratory Service 88  
Robertson, B.T. 27  
Robertson, V. 157  
Rohrbach, B.W. 60  
Rollin, B.E. 24  
Roocroft, Alan 108  
Rosenzweig, Lionel J. 1  
Rottmann, R.W. 82  
Rowan, Andrew N. 136  
Rowell, H.C. 17, 62, 139  
Royal Society of New Zealand 151  
Rucker, N.C. 107  
Ruppenthal, Gerald C. 131  
Ruys, Theodorus, 76  
Ryans, Robert C. 61  
Sackett, Gene P. 131  
Sahara, R. 16, 157  
Salisbury, S.K. 138  
Sammut, John 66  
Samuels, J. 16  
Sander, J.E. 103  
Schapiro, S.J. 70  
Schofield, J. C. 57  
Schoonover, C. O. 13  
Schumacher, R. 16, 157  
Schwartz, A. 9  
Schwartz, H. J. 116  
Scientists Center for Animal Welfare (Bethesda, Md.) 129  
Scientists Center for Animal Welfare (Washington, D.C.) 73  
Scientists Center for Animal Welfare (Washington, D.C.), Animal Welfare Information Center (U.S.) 163  
Scientists Center for Animal Welfare, Working with Animals Used in Research, Drugs, and Surgery 134  
Shell, L.G. 8  
Shireman, J.V. 82  
Short, Charles E. 6  
Shugars, D.A. 10  
Silvestri, A. 110  
Simpson, R.M. 34  
Smallwood, James E. 68  
Smeak, D.D. 115  
Sternner, K.E. 118  
Stone, D.M. 158  
Stone, E.A. 10  
Stowe, J. 47  
Sundberg, John P. 79  
Svendsen, Per 78  
Thompson, G. B. 23  
Tomasovic, S.P. 59  
Tomson, F.N. 69  
Toombs, J.P. 138  
Trentham, L. 27  
Tufts University, Center for Animals and Public Policy 136  
United States, Armed Forces Pest Management Board 30

## Quick Bibliography Series

- United States, Food Safety and Inspection Service 20  
Universities Federation for Animal Welfare 150  
University of Sydney, Post Graduate Committee in Veterinary Science 53, 55  
University of Tennessee, Memphis, Dept. of Comparative Medicine 92  
University of Texas Health Science Center at San Antonio 133  
University of Washington, Infant Primate Research Laboratory 131  
University of Wyoming, Cooperative Extension Service 13  
Van Poznak, Allan 6  
Vannucci, Velio 110  
Venable, Joseph S. 134  
Waldhalm, S. 29  
Walton, J. R., 120  
Warner, S. 60  
Weigel, J.P. 60  
Welser, J.R. 164  
Wheaton, L.G. 32  
White, G.L. 28  
White, K.K. 32  
Whitmore, H.L. 64  
Wilson, John E. 129  
Wilson, M.S. 98  
Wise, J.K. 49, 50, 51  
Witham, Barbara A. 80  
Witthoft, Sibylle 142  
Wolfensohn, Sarah 77  
Yang, J.J. 51  
Zoll, Donald Atwell 108

## Subject Index

- Academic achievement 138  
Access 84  
Acquired immune deficiency syndrome 158  
Adult learning 126  
Aggressive behavior 159  
Anatomy 1, 93, 93  
Anesthesia 69, 154  
Animal anatomy 154  
Animal behavior 12  
Animal breeding 117  
Animal diseases 119  
Animal experimentation 4, 57, 58, 77, 78, 86, 95, 134, 151, 152, 156, 163  
Animal experiments 17, 24, 36, 62, 69, 94, 97, 132, 138, 139  
Animal feeding 117  
Animal genetics 106  
Animal health 164  
Animal health technicians 56  
Animal health technology 124  
Animal husbandry 28, 87, 148, 149  
Animal models 17  
Animal models in research 78, 133, 152  
Animal physiology 27  
Animal testing alternatives 9, 24, 32, 97, 130, 137, 154  
Animal tissues 155  
Animal welfare 3, 4  
Animal Welfare 7  
Animal welfare 12, 17, 24, 31, 32, 46, 57, 62, 69, 70, 73, 77, 84, 86, 95, 97, 98, 101, 109, 129, 133, 134, 137, 138, 139, 141, 145, 152, 156, 163  
Animals 141, 147  
Animals, laboratory 4  
Anticonvulsants 8  
Aquaculture 82  
Artificial insemination 64  
Attitudes 10, 29, 138  
  
Bears 104  
Beef cattle 11, 13  
Beef herds 11  
Behavior modification 159  
Behavior problems 12, 143, 159  
Beliefs 138  
Bibliographies 147  
Bioethics 133, 153  
Biopsy 155  
Birds 72, 125  
Bison, American 15, 15  
Blood 145  
Blood chemistry 72  
Breeding programs 64  
Buyers' guides 96  
  
Cabt 9, 29, 52, 128, 153, 157  
Cadavers 138  
Cage birds 125  
California 16, 157  
Camels 116, 116  
Canada 47, 54, 139, 146  
Captive wild animals 18  
Careproviders 147  
Cats 1, 8, 53, 115, 138  
Cattle 22, 23, 48, 102  
Cattle diseases 21  
Cattle husbandry 11  
Cephalopoda 150  
Chicken meat 103  
Chimpanzees as laboratory animals 136  
Clinical examination 100, 107  
Clinical experience 165  
College curriculum 32, 137, 165  
College students 138  
Committees 84, 90  
Communicable diseases in animals 113  
Computer assisted instruction 27, 87, 99, 111  
Computer hardware 29  
Computer simulation 87  
Computer software 29, 87  
Computer techniques 144  
Computers 29  
Congresses 48, 61, 61, 61, 61, 73, 73  
Connecticut 111  
Continuing education 35, 47, 126, 127, 161  
Convulsions 8  
Cooperative activities 119  
Costs 70  
  
Cyprinidae 82  
Cytology 34  
Dairy cattle 35, 64, 87  
Dairy education 99, 111  
Dairy herds 99  
Dairy science 111  
Debt 49, 50, 51, 52  
Deer 14  
Deer farming 14  
Dermatology 155  
Detection 64  
Diagnosis 155  
Diffusion of information 47  
Disasters 157  
Disease control 119  
Disease prevention 21, 158  
Diseases 25  
Dissection 1, 93  
Dogs 8, 53, 115, 138, 143, 155, 159  
Drug combinations 38



## Quick Bibliography Series

- Drug effects 8  
Drug formulations 38  
Drug therapy 8, 107  
Drugs 40, 41, 45, 118  
Ecosystems 44  
Education 33, 54, 62, 128, 141  
Educational courses 111, 130  
Educational objectives 32  
Educational programs 9, 28, 44, 64, 94, 119  
Educational reform 32  
Effect of water pollution on 61  
Effect of water quality on 61  
Elephants 108  
Embryos 48  
Emergencies 16  
Employment 50, 51, 52  
Employment opportunities 49  
Enrichment 70  
Environment 70  
Environmental impact 44  
Equipment 69  
Estrus 64, 87  
Ethics 24  
Europe 97  
European communities 97, 141  
Euthanasia 138  
Evaluation 60  
Farm equipment 82  
Farm management 87  
Farm workers 148  
Feces 145  
Federal programs 119  
Feeding behavior 12  
Felidae 105  
Fine needle aspiration 34  
Fires 157  
Fish culture 82  
Fish farming 82  
Fish farms 82  
Fish ponds 82  
Fishery management 82  
Fishes 61, 61, 61, 61  
Fixation 155  
Florida 82  
Flow charts 87  
Georgia 103  
Germplasm resources, Animal 106  
Gouldian finch 66  
Government organizations 45  
Graduate study 132  
Graduates 49, 50, 51, 52, 60  
Great Britain 33  
Group interaction 12  
Growth 61  
Guidelines 11, 41, 69, 70, 90, 98, 100, 115, 118, 157, 158, 159  
Hair 79  
Handicapped persons 54  
Histopathology 155  
History 42, 155  
Hormones 82  
Horse riding 54  
Horses 12, 25, 54, 55  
Inbreeding 63, 80  
Incubation 117  
Indiana 36  
Information 84  
Insecticides 30  
Interactions 8  
International organizations 90  
Invertebrates 89  
Invertebrates as laboratory animals 18  
Invertebrates as pets 18  
Italy 94, 110, 110  
Job performance 60  
Kennel management 83, 91  
Kennels 83, 85, 91  
Laboratories 147  
Laboratory animal technicians 31  
Laboratory animals 3, 4, 5, 6, 17, 24, 26, 27, 28, 31, 32, 36, 37, 40, 46, 57, 58, 59, 62, 65, 67, 68, 69, 71, 75, 76, 77, 78, 81, 84, 86, 90, 92, 95, 96, 98, 101, 109, 128, 129, 130, 133, 137, 139, 145, 146, 151, 152, 153, 156, 163, 167  
Laboratory equipment 96  
Laboratory manuals 1, 1, 93, 93  
Laboratory methods 155  
Large animal practice 165  
Law 100, 101  
Law and legislation 110  
Learning ability 87  
Learning experiences 127, 138, 154  
Learning in animals 89  
Legal status, laws, etc 110  
Legislation 62, 94, 139  
Lethal dose 90  
Licenses 101  
Livestock 102, 106, 160, 163, 165  
Mammals 72, 93  
Marine invertebrates as laboratory animals 150  
Massachusetts 9  
Mating behavior 12  
Meat and livestock industry 21  
Medical treatment 8, 107  
Methodology 115  
Mice 26, 79

## Subject Index

- Mice as laboratory animals 26, 79, 80  
Mice, Inbred Strains 80  
Miniature pigs 19  
Miniature pigs as pets 19  
Moral values 24  
Morocco 119  
Netherlands 128  
On-farm training 165  
Organizations 16  
Orthopedics 60  
Ostriches 117  
Pain 17, 62  
Pain in animals 6  
Pathology 155, 162  
Personnel 29, 39, 69  
Personnel management 39  
Pests 30  
Pet boarding facilities 85  
Pets 83, 85, 120, 158  
Pharmacology, Experimental 40  
Physical laboratories 76  
Physiology 61  
Physiopathology 107  
Plan implementation and evaluation 70  
Planning 16, 157  
Policy 90  
Postmortem examinations 100  
Postoperative care 69  
Postoperative complications 115  
Poultry 122  
Poultry diseases 103  
Poultry feeding 103  
Poultry housing 103
- Practical education 165  
Pregnancy rate 64  
Preoperative care 69  
Prescriptions 45  
Primates 70, 131, 145  
Primates as laboratory animals 131  
Professional continuing education 107  
Prognosis 107  
Program evaluation 59  
Psychology 130  
Public agencies 119  
Rabbits 93, 154  
Rabbits as laboratory animals 134  
Raccoons 104  
Rats 26, 63  
Rats as laboratory animals 26, 63  
Record keeping 70  
Records 99  
Regulation 101  
Regulations 45, 97, 139
- Rehabilitation 166  
Reproductive performance 99  
Research 62, 135, 147  
Research workers 146  
Residential areas 103  
Resource management 21  
Rhesus monkey 145  
Rodents as laboratory animals 73, 134  
Salaries 49, 50, 51, 52  
Science education 37, 81, 153  
Sheep 102  
Skills 60  
Skin 79, 155  
Skin diseases 155  
Small animal practice 155  
Social dominance 159  
Spawning 82  
Spinal cord 107  
Sport 54  
Surgery 32, 60, 69, 107, 137, 138, 154  
Surgical operations 115, 154  
Surveys 9, 29, 60, 137  
Survival 138  
Swine 102, 120, 121  
Teachers 127  
Teaching 62, 139  
Teaching materials 34, 69, 130, 147  
Teaching methods 24, 27, 32, 137, 138, 165  
Teaching skills 126  
Technical aid 119  
Technical training 146  
Technicians 33, 36, 141, 144, 146, 149  
Telecommunications 47
- Tennessee 60  
Testing 90, 139  
Therapy 54  
Time allocation 12  
Tissues 155  
Toxicology 44  
Tractability 12  
Training 29, 33, 39, 59, 60, 139, 144, 147, 149, 162  
Training courses 36  
Training of animals 143  
Training officers 143  
Transplantation 48  
Transport of animals 71  
Trauma 107  
Tube feeding 115  
Tuberculosis in animals 140  
U.S.A. 24, 29, 41, 45, 49, 50, 52, 54, 101, 119,  
132, 137, 153  
Uk 98, 100, 166  
United States 25, 25, 25