

GOALS: TAKE HOME MESSAGES

- Three major participants
 - Scientists
 - Government
 - Public
- Debunk myth of rules, regs, policies. primarily driven by animal rights
- People care about humane use of animals

PARTICIPANTS IN THE PROCESS Government Congress USDA—USDA enforces • HHS: PHS (NIH, FDA, CDC)—OLAW enforces Scientists Animal Care Panel - AAALAC International - ILAR Public - Animal-centric organizations Health care consumers

Setting the Stage:

- Mid 1800s on, increase use of animals in medical education
- Claude Bernard, "Introduction to the Study of Experimental Medicine" 1865
- Increase use of rats and mice in early 1900s
- British Cruelty to Animals Act of 1876
- **Establishment of several Antivivisection** Societies:
 - 1867 Pennsylvania Society for the Prevention of Cruelty to
 - 1883 American Antivivisection Society

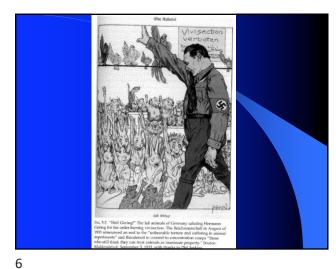
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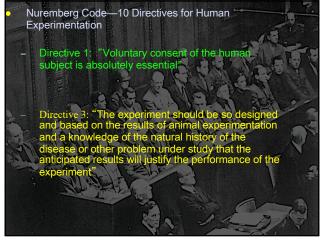


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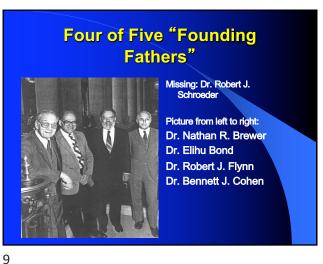


- Nazi Germany
 - Focus on natural healing, organic living
 - Adoption of eugenics ("good birth")
 - Sterilization clinics
 - Mass murder of handicapped, mentally ill,
 - Banned vivisection on animals, but experiments on Jews OK





Setting the Stage Evolution of National Institutes of Health • 1887 Hygienic Lab created within MHS (Marine Hospital Service) • 1930 Ransdell Act Hygienic Lab •National Institute of Health • Following World War II Economic Boom Large increase in scientific research 1948 National Heart Act •National Institutes of Health Taxpayer based funding of health related research Huge increase in NIH budget



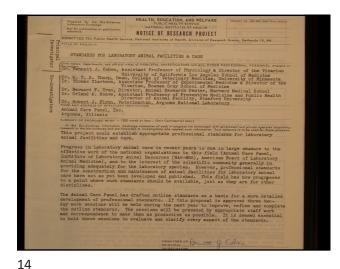
SCIENTISTS' INVOLVEMENT 1950 Animal Care Panel (ACP) **1951** Proceedings of the Animal Care Panel 1953 Animal Care Panel incorporated 1952 Institute of Laboratory Animal Resources under National Research Council **1960** Animal Facilities Certification Committee (Board) **1963** Guide for Laboratory Animal Facilities and Care AFCB ⇒ AAALAC incorporated 1965 1965 2nd edition of *Guide* (1968, 1972, 1978, 1985, 1996 8th edition 2011) 1967 ACP - AAI AS

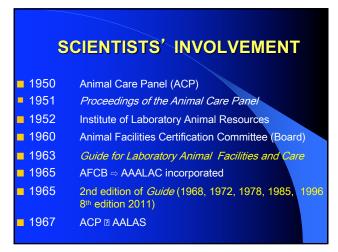
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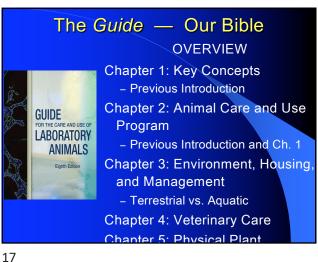




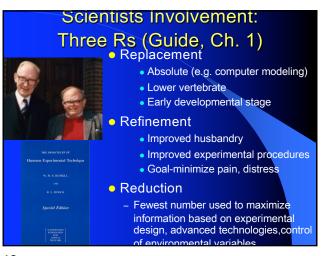








S	CIENTISTS' INVOLVEMENT
1950	Animal Care Panel (ACP)
1951	Proceedings of the Animal Care Panel
1952	Institute of Laboratory Animal Resources
1959	The Principles of Humane Experimental Technique by W.M.S. Russell and R.L. Burch
1 960	Animal Facilities Certification Committee (Board)
1963	Guide for Laboratory Animal Facilities and Care
1965	AFCB ⇒ AAALAC incorporated
1965	2nd edition of <i>Guide</i> (1968, 1972, 1978, 1985, 8th edition 2011)
1967	ACP 2 AALAS



GOVERNMENT'S INVOLVEMENT 1962 NIH Contract - first Guide Laboratory Animal Welfare Act **1966** LAWA Animal Welfare Act **1970** (1976, 1985, 1990, 2002, 2007) **1971** NIH Policy Public Health Service Policy (1979, 1986, **1973** 2002 and 2015 revised) 1985 PHS Act (Health Research Extension Act)

1966 Laboratory Animal Welfare Act

- Focus on preventing theft of dogs and cats
- Registration limited facilities with dogs/cats
- Holding areas only
- Only records of acquisition required
- Developed 8 areas of minimum standards:
 - Housing
 - Feeding
- -Shelter
- -Separation of species
- Watering
- Sanitation
- -Ventilation
- -Adequate vet care

1970 Animal Welfare Act

- LAWA changed to AWA
- Extension into the laboratory
- Report number of animals by pain category
- Require appropriate use of anesthetics
- Include all warm blooded species except...

22 21

1985 Animal Welfare Act Amendments

- Establishment of IACUC
- Assign responsibility to Institutional Official
- Review of protocols (USDA "activity")
- Semiannual program review & inspections
- Search for alternatives to painful procedures
- Personnel qualifications
- Environmental enrichment for NHPs
- Exercise for dogs

FARM SECURITY AND RURAL INVESTMENT **ACT OF 2002**

Title X Miscellaneous Subtitle D—Animal Welfare

• SEC. 10301. DEFINITION OF ANIMAL UNDER THE ANIMAL WELFARE ACT, Section 2(g) of the Animal Welfare Act (7 U.S.C. 2132(g)) is amended in the first sentence by striking 'excludes horses not used for research purposes and' and inserting the following: 'excludes (1)birds, rats of the genus Rattus, and mice of the genus Mus, bred for use in research, (2) horses not used for research purposes, and (3)'

1971 NIH Policy

- Institution had to have Assurance
 - AAALAC
 - Local Committee
- Annual Inspections
- Compliance with AWA
- Follow Guide

1973 Public Health Service (PHS) Policy

- Include animals for research, teaching, education, demonstration
- Continue accept AAALAC instead of **IACUC**
- Still no requirement for protocol review

25

1979 PHS Policy Highlights

- A"Committee" now required for program oversight
- Assurance required before funding received
- All live vertebrates
- Annual reports required
 - Recommend protocol review

1985/86 PHS Policy

- Health Research Extension Act-Nov. 20,1985
- More detailed Assurance
- IO ultimately responsible
- CEO appoints IACUC members
- Minimum of 5 IACUC members:

 - DVM program authority One practicing scientist One NAM

26

- Protocol Review
- Semiannual reports of program review
- Detailed training program description

U.S. Government Principles

- U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training
- Developed in 1983 by Interagency Research Animal Committee (IRAC)
- Incorporated into PHS Policy in 1986; endorsed by Guide
- Nine basic and elegant principles
- PHS Policy—p.4-5; Guide—App. B p.199-200



29

Research, and Training

The development of knowledge necessary for the improvement of the health and well-being of humans as well as other animals requires in vivo experimentation with a wide variety of animal species. Whenever U.S. Government agencies develop requirements for testing, research, or training procedures involving the use of vertebrate animals, the following principles hall be considered; and whenever these agencies actually perform or sponsor such procedures, the responsible institutional Official shall ensure that these principles are adhered to:

1. The transportation, care, and use of animals should be in accordance with the Animal Welfare Act (7 U.S.C. 2131 et seq.) and other applicable Federal laws, guidelines, and policies.

1. Procedures involving animals should be in accordance with the Animal Welfare Act (7 U.S.C. 2131 et seq.) and other applicable Federal laws, guidelines, and policies.

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1. Proport use of animals, including the avoidance or minimization of discomfort, distress, and pain when consistent with sound scientific practices, is importative. Unless the contrary is established, investigators should consider that procedures with animals that may cause more than momentary or slight pain or distress should be performed with appropriate sedation, analgeais, or anesthesia. Surgical or other painful procedures should not be performed on unanesthetized animals paralyzed by chemical agents.

1. Animals that would otherwise suffer severe or chronic pain or distress that cannot be relieved should be painlessly killed at the end of the p

31

Principle IV: Questions for Discussion

• What is the impact of this principle?

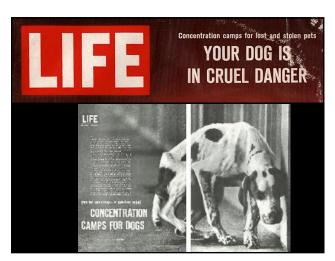
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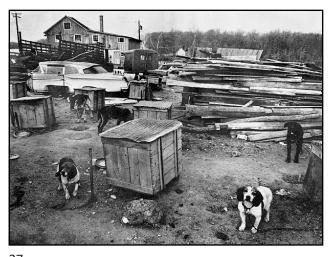
 Share examples of the utilization of this principle.





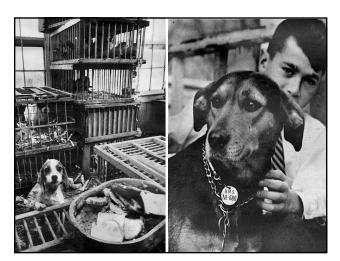


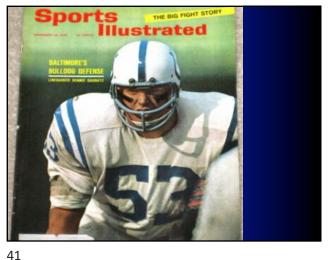






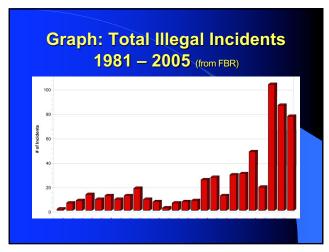


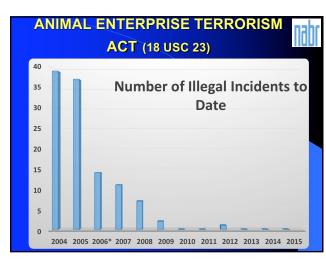


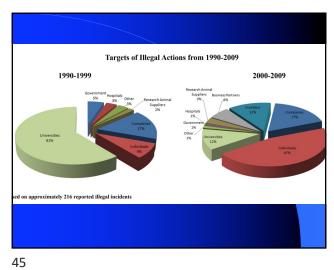


PUBLIC'S INVOLVEMENT Silent Spring, by Rachel Carson **1962 1966** LIFE magazine article **1969** Greenpeace founded **1975** Animal Liberation, by Peter Singer The "Silver Spring Monkeys" **1981 1983** University of Pennsylvania head injury, "whiplash" studies

42



















Federal Legislation			
S 2952/HR 2565	FDA Modernization Act of 2021	This bill allows an applicant for market approval for a new drug to use methods other than animal testing to establish the drug's safety and effectiveness.	
H.R.3277	Arimal Welfire Enforcement Improvement	Revises the licensing process of the Department of Agriculture (USDA) for animal dealers and exhibitors to expand USDA's oversight and enforcement of azimal welfare requirements. The bill also authorizes citizen suits to enforce the Arimal Welfare Act.	
S.760	COST Act	Funding transparency bill (Wuhan). Charmioned by White Coat Waste Project.	
H.R.1442	PREPARED Act	Bill to require enemoney preparedness plans for animal research facilities.	
HR 1908	AARF Act of 2021	Amends the Food, Dog and Cosmets. Act to allow the spensor of a drug to be a non-majoral test as an alternative to an animal test for purpose of domestiming the safety and effectiveness of a drug under this bettern if such approach animfers the requirements of the applicable statutes and regulations.	
S.1385/HR 2840	Purny Protection Act	Amends the AWA to require a one-size-fits-all series of requirements, adding to regularize and legislative binder on the American biomedical research community by targeting breeding operations.	
HR 1744	Hamane Research and Testing Act,	This bit will publicly provide arimal nights groups with information on the number of arimals, agained bred, and used as falceally founded research and testing facilities. This will create an already-made targeting list for learning bit companies by animal rights groups.	
HR.197	FACT Act	Transparency bill to increase reporting requirements on facilities using research animals and alternatives for toxicology.	
H.R.4101	HEARTS Act	Amends the Public Health Service Act to ensure that non-mirral methods are prioritized, where applicable and feasible, in proposals for all research to be conducted or supported by the National Institutes of Health.	
S.1378	AFTER Act	Federal mandatory adoption bill. Write Cost Waste Project backed bill to amend AWA to require research laboratories to have a written adoption policy.	
HR.5726	CARE Act	To require research facilities that use companion dogs, cuts, or rabbits for research purposes and receive funding from the National Institutes of Health to offer such animals for adoption after completion of such research	
HR.1016	Animal Cruelty Enforcement Act	Biblildes a new section in the Environmental and Natural Resources Division of the Department of Justice to enforce federal law concerning animal encody. This could be used by the wrong Administration to appoint animal nights activist and shart down records alongwishes.	
S3613	Chimp Sanctuary Act	To probabit the housing of chimpanazes at installations of the Department of the Air Force and relocate current chimpanazes to Chimp Haven in Louissiana.	
H.R.3187	Pet Safety and Protection Act	This bill revises requirements concerning the sources of does and cuts used by research facilities.	



