Animal Research

Bioengineering 100 Fall 2016

If there was ONE cockroach left on earth, and it was on the floor right in front of you, would you step on it?



Animal research provides valuable contributions to biology and science that we would not otherwise be able to test.

Agree or Disagree?

1966 Animal Welfare Act

"Set the standards for humane care and treatment for certain animals that are exhibited to the public, bred for commercial sale, used in medical research, or transported commercially.

Facilities... must provide their animals with adequate housing, sanitation, nutrition, water and veterinary care, and they must protect their animals from extreme weather and temperatures." – USDA APHIS

AWA (continued)

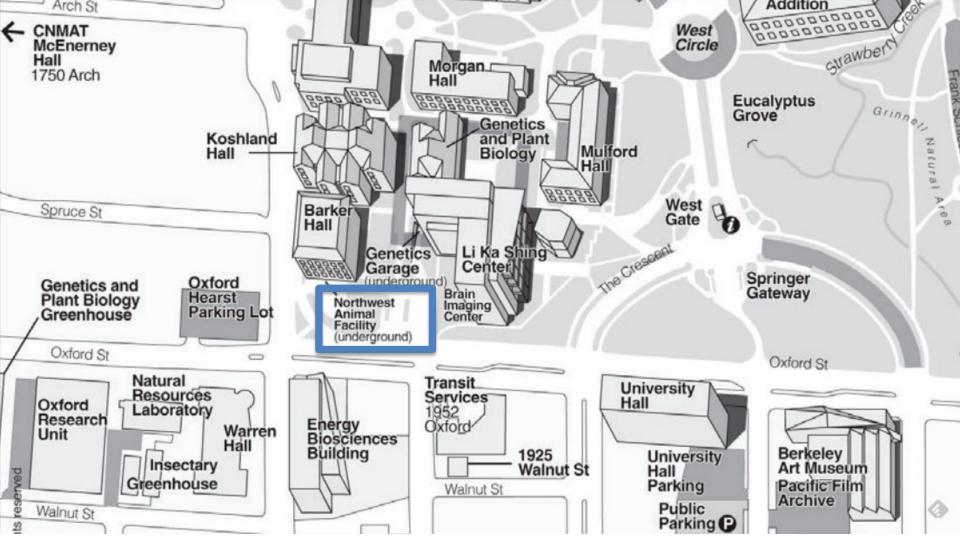
- USDA division Animal and Plant Health Inspection Services (APHIS) inspects and enforces AWA
- Excludes: farm animals for food/fiber, cold blooded species, fish, invertebrates, horses not used for research, rats and mouse bred for research

Institutional Animal Care and Use Committees (IACUCs)

- At least three members:
 - One veterinarian with lab animal science experience
 - One outside member not affiliated with the facility
- Reviews/approves animal use protocols
- Inspects facilities every 6 months (minimum)
- Submits reports to institutional officials, reviews concerns

Do you know where the UC Berkeley Animal Facility is

located?



February 1989

"Six protesters scaled a construction crane – and refused to leave their perch – in an effort to halt construction of a new animal research building at UC Berkeley. But the crane had nothing to do with construction of the \$14-million Northwest Animal Facility, which began Dec. 1. The demonstration did, however, disrupt an adjacent project, the building of a \$42-million genetics and plant biology facility. The protesters went 150 feet up the crane and hung banners protesting germ warfare and "toxics." A state Court of Appeal has refused to block the construction while In Defense of Animals and Berkeley Citizens for a Toxic Free Environment appeal an Alameda County Superior Court ruling that the environmental impact report for the project was satisfactory."

The State; LA Times; February 22, 1989

One week protest: ~\$30,000/day cost to university and construction companies because of delay.

Free Speech? Or Domestic Terrorism?

- Activists held protests outside UC Berkeley professors' homes
- Researchers (graduate students, post docs) harassed with threatening phone calls
- Bombs planted in cars.

Activists stage 'die-in' to protest animal testing in UC Berkeley labs

"Protesters began their demonstration in front of the Valley Life Sciences Building but moved to Sproul Hall to attract a larger audience" Daily Cal; June 19, 2014



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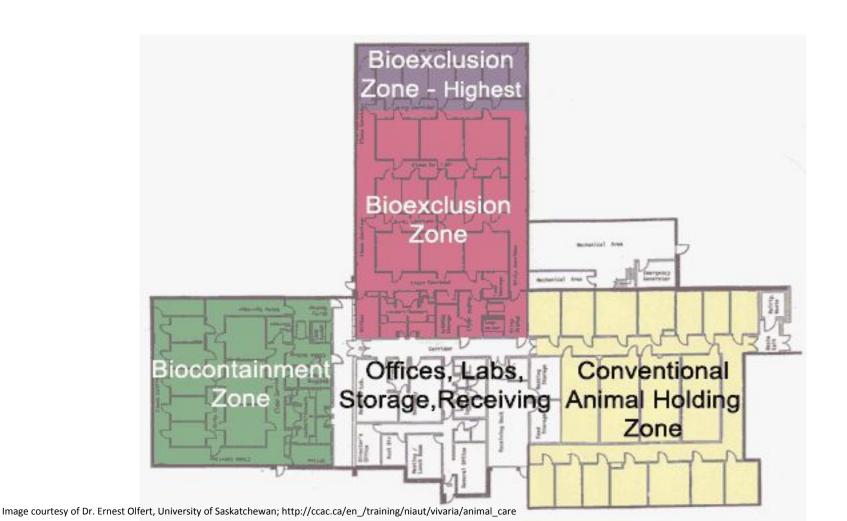
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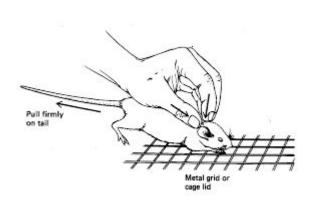


Surgery



How are small animals sacrificed?





Silver Springs Monkeys

Case Study

Discussion Questions

- "Researchers see hope; animal rights groups see cruelty" (NYT article) Where do you stand? Do you see hope? Cruelty? Somewhere in the middle?
- Would you conduct animal research? What kinds would you feel comfortable with and why?
 - animal experiments for basic research
 - pre-clinical animal studies for safety/efficacy testing of drugs or medical devices
 - behavioral studies (grape and cucumber video)
 - field animal studies (in natural environment)

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Agree or Disagree?







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