



**Research Administration 101**  
**Use of Animals in Research**

Research and Graduate Studies  
 Fall 2007

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**Animal Care**


- “Ouch” said the doggy
- “Meow” said the cat,
- “Damn” said Sir Rattus,
- “I’m a goner,” said the mouse.
- “Where’s my consent form?” asked the rabbit.
- “I never agreed to this.”

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**Purpose of Animal Use in Experimentation**

- To advance medicine and science when there are no non-animal alternatives, and when it is done in an ethical and humane way.
- Work must offer immediate and potential benefits to both humans and other species
- Applies to research and classroom instruction



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**GOALS**

- **Reduction**
  - » Appropriate species, quality, and minimum number required to obtain valid results
- **Refinement**
  - » Avoid or minimize discomfort, distress and pain
- **Replacement**
  - » Mathematical models, computer simulation, in vitro biological systems, use of videotapes



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**Regulations**

- **IRAC** - Interagency Research Animal Committee  
 “U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research and Education”
- **OLAW** – Office of Laboratory Animal Welfare  
 “Policy on Humane Care and Use of Laboratory Animals”  
 Public Health Service Act as published by OLAW
- **ILAR** - National Academy of Sciences Institute for Laboratory Resources  
 THE GUIDE: “Guide for the Care and Use of Laboratory Animals”
- **AVMA** - American Veterinary Medical Association  
 1993 Panel Report on Euthanasia
- **Public Law** - Animal Welfare Act



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**OLAW Institutional Assurance Number**

- **A3339-01**
- **Assures that organization meets Public Law**
  - provides proper care and treatment of animals;
  - has an animal care committee; and
  - provides instruction or training in humane practice of animal use
- **No PHS funded activity involving animals permitted without approved Assurance**
- **Assurance resubmitted every 5 years**




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### AAALAC

Association for Assessment and Accreditation of Laboratory Animal Care International

- Private nonprofit organization promoting the humane treatment of animals in science
- Offers voluntary accreditation for program and facilities
- Accreditation is part of OLAW assurance

<http://www.aaalac.org>



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### Animals That Make The List . . .

Does it have a backbone?

- » Any live, vertebrate animal used or intended for use in research, research training, experimentation, or biological testing or for related purposes.
  - Dogs, cats, rabbits, guinea pigs, hamsters, rats, mice, frogs, turtles, snakes, birds, fish
- » LABORATORY USE
- » FIELD USE- study conducted on free-living wild animals in natural habitat




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### . . .And Those That Don't

- Worms, insects
- Animal tissue obtained off campus
  - » The animal was not specifically killed for the tissue, or
  - » The tissue was obtained commercially




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### Animal Care at KU




- Animal Care Unit (ACU)
  - James F. Bresnahan, D.V.M., Director
  - Jodi Wente, Administrative Officer, 864-5587 [acu@ku.edu](mailto:acu@ku.edu)
  - <http://www2.ku.edu/~acu/>
- ACU provides
  - » program management;
  - » animal research support services;
  - » advising, assistance, and training for research personnel
  - » occupational health assessment is required for all participants on an active animal use statement (AUS)



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### IACUC - Institutional Animal Care and Use Committee



- Comprised of representatives from
  - faculty
  - graduate student population
  - Office of Research and Graduate Studies
  - Animal Care Unit
  - community
- Reviews the propriety of each AUS
  - number of animals used
  - adequacy of pain and distress reduction
  - acceptability of euthanasia methods
- Does not make or dictate policy of ACU

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### Animal Use Statement Review

- IACUC meets monthly
  - » the third Tuesday of each month
- AUS due 3 weeks prior to IACUC meeting
  - » Pre-review by ACU staff recommended
  - » Approved or Disapproved – No contingencies

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### AUS Review Frequency

Review Cycle	Annual	2 ½ Years
Covered Species	X	
Non-Covered Species		X
Field Research		X
Collaborative Research		X
Blanket proposals		X

- ### Whose Responsibility?
- **Principal Investigator**
    - » Prepares and submits Animal Use Statements (AUS)
      - Lab or Field Research involving live vertebrates
      - Before obtaining animals or beginning a study
      - Revisions submitted for any major change
    - » Ensures qualification of all persons involved in care and use of animals on the project

- ### IACUC Approval and Proposals
- IACUC approval takes time
    - » Avoid delays: apply before award is received
  - IACUC protocol number and date of approval submitted as part of proposal
    - » If approval is pending Proposal Services may obtain and submit certification letter
  - NIH "IACUC Just-in-Time": IACUC approval after submission but prior to award
    - » Protocol for NIH is specific to project
    - » PI applies within 3 weeks of submitting proposal

### Animal Use Grant Comparison Certification Form

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    graph LR
      AUS[AUS] <--> Project[Project]
      
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- Links IACUC protocol(s) with sponsored project
- NIH projects require 1-to-1 protocol-project
- Now prints out with Proposal Review Sheet
- PI must submit before award funds are spent

[http://www.rcr.ku.edu/animal\\_use/index.shtml](http://www.rcr.ku.edu/animal_use/index.shtml)  
<http://www2.ku.edu/~acu/Formspage.shtml>

- ### Collaborative Research – Whose IACUC? Whose protocol?
- For animal research done at another institution
    - » Subcontractors or collaborating institutions
    - » Funded by KU grants, contracts, internal funds
  - PI submits to KU ACU
    - » Questions 1 - 5 of KU AUS form
    - » Copies of collaborating Institution's AUS, signed assurance letter and assurance number
  - Streamlined approval process
    - » Administrative approval by ACU Director or IACUC Chair, if no concerns
    - » Full review by IACUC, if concerns found

- ### Animal Care Unit Website
- <http://www2.ku.edu/~acu/>
  - Forms
  - Per diem rates
  - Handbook
  - List of training videos
  - Related links
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