

Calvin College  
Institutional Animal Care and Use Committee

**REQUESTS FOR USE OF ANIMALS  
IN EDUCATION OR RESEARCH**

Calvin College policy requires that the Institutional Animal Care and Use Committee (IACUC) review each educational or research project using live vertebrate animals to assure humane treatment of these animals. This review is necessary for compliance with the Animal Welfare Act, and to meet the standards, guidelines, and policies of the Michigan Department of Public Health, United States Department of Agriculture, and federal granting agencies such as the National Science Foundation and the National Institutes of Health.

The IACUC needs specific information to make reasonable judgments about the humane treatment of animals. The areas of concern are housing, educational or research procedures using animals, appropriate use of anesthetics, analgesics, tranquilizers and other measures which will minimize discomfort or pain in surgical and nonsurgical aspects of the education or research, and the use of appropriate euthanasia measures when a study is completed. Much of this information is mandated by federal law as codified in Code of Federal Regulations (CFR) 9 Ch.1 (or, vol.1), Part 2, pp.22-23 of the 1991 edition.

A separate, completed "Request for Use of Animals in Education or Research" is required for each project to be reviewed by the IACUC. Supporting documents may be submitted if appropriate (e.g. laboratory exercises or grant applications). Additional information (e.g. drug toxicity information) may be requested by the IACUC if it is necessary for evaluating the project request. Failure to complete this form adequately or a discrepancy between protocol statements and the actual use of animals may result in delay or withdrawal of approval by the IACUC.

Approved requests must be reviewed at least once per year to allow continuation of the activity. Requests for continuation of a previously approved project may be made using the abbreviated form, "Request for Continuation of the Use of Animals in Education or Research."

The principal investigator must sign all requests for use of animals indicating that he/she has read the Calvin College Policies Regarding the Use of Animals in Education or Research agrees that all research will be conducted in compliance with these policies and the guidelines of the State and Federal Animal Welfare Acts.

If you have any questions about completing these forms, contact the chair of the IACUC. Submit the original typewritten form to the chair of the IACUC. Your request will be forwarded to the IACUC for approval. Ordinarily, you should allow at least two weeks for approval. You will be notified upon completion of the approval process. (Note: Many agencies require institutional approval of research protocols before submitting a grant application. Please plan ahead.)

More detailed instructions for completing the request forms is given on the back of this page.

## Policies Regarding the Use of Animals in Education or Research

Calvin College policy regarding the use of animals in experimentation is based upon the principles cited in:

- **U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training**, Public Health Service Policy on Humane Care and Use of Laboratory Animals, Office for Protection from Research Risks (OPRR), National Institutes of Health, 9000 Rockville Pike, Building 31, Room 4B09, Bethesda, Maryland, 20892.
- **Guide for the Care and Use of Laboratory Animals**, U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, NIH Publication No. 86-23, Revised 1985.
- **Animal Diet Reference Guide**. Purina Mills, Inc.:Richmond, IN. 1987.
- **Animals, Science, and Ethics**. S. Donnelley and K. Nolan, eds. Hastings Center Report, Special Supplement, May/June 1990.
- **Panel on Euthanasia**. 1987 Report of the AVMA Panel on Euthanasia. *JAVMA* 188(3):252-268. 1986.

1. Experiments involving live vertebrate animals and the procurement of tissues from living animals for education or research must be performed by, or under the immediate supervision of a biological, behavioral, or medical scientist with research experience.
2. The education or research should reasonably assure fruitful results which benefit society, not be feasible by other methods or means of study, and not be random or unnecessary in nature.
3. The experiment must be conducted so as to avoid all unnecessary suffering and injury to the animals.
4. The scientist in charge of the experiment(s) must be prepared to terminate experimentation whenever it is believed that its continuation may result in unnecessary injury or suffering to the animals.
5. Anesthetic, analgesic, and tranquilizer agents must be used to alleviate pain or distress in animals except in rare circumstances where their use would defeat the purpose of the experiment, and where data cannot be obtained by any other more humane procedure. Such procedures must be carefully supervised by the principal investigator.
6. Post-experiment care of animals must be such that it minimizes the discomfort of animals in accordance with acceptable practices in veterinary medicine.
7. If it is necessary to sacrifice an experimental animal, it must be done in a humane manner to ensure immediate death. Death must be assured by means other than overdose of drug alone, e.g., bilateral pneumothorax, transection of the aorta, cervical dislocation, etc.

8. Projects should utilize the minimum number of animals necessary for valid data. Wherever feasible, animal experiments should be accompanied by complementary methods of study such as statistical analysis, mathematical models, or in vitro systems when appropriate.
9. All education and research involving animal models must be approved by the Institutional Animal Care and Use Committee prior to initiation of the project. Approvals are granted for one year. If continuation of a project is desired beyond the approval period, the investigator may request continuation using the abbreviated form entitled "Request for Continuation of the Use of Animals in Education or Research." Continuation may be granted for a maximum period of one year at a time.
10. Any changes in the education or research protocol with reference to the utilization of the animals, including methods or species employed, must be submitted to the Institutional Animal Care and Use Committee for approval using the abbreviated form entitled "Request for Continuation of the Use of Animals in Education or Research."
11. Any discrepancy between protocol statements and the actual use of animals, or any violations of these policies may result in the withdrawal of approval by the Institutional Animal Care and Use Committee and termination of the project.