CERTIFICATION OF HUMANE TREATMENT OF LIVE VERTEBRATE ANIMALS

(Both sides of this form, properly completed, must be part of the carefully planned procedures for experiments with live vertebrate animals or animal parts and must accompany any such project when exhibited).

SCIENCE FAIR REGULATIONS FOR EXPERIMENTS WITH ANIMALS

1. The basic aims of experiments involving animals are to achieve an understanding of life processes and to further knowledge. They do not include the development of new or refinement of existing surgical techniques or experiments in toxicological studies. Experiments involving animals (live or preserved, vertebrate or invertebrate excluding **Homo sapiens)**, vertebrated embryos and fetuses, and embryos of fowl within three days of hatching, must have clearly defined objectives requiring the use of animals to demonstrate a biological principle or answer scientific propositions. Such experiments must be conducted with a respect for life and an appreciation of humane considerations.

2. The use of protista and other invertebrates is to be encouraged for most research involving animals. Their wide variety and the feasibility of using larger numbers than is usually possible with vertebrates makes them especially suitable.

3. To provide for humane treatment of animals, an animal care supervisor knowledgeable in the proper care and handling of experimental animals must assume primary responsibility for the conditions under which the animals are maintained. If the school facility includes no one with adequate training in this area, the services of a qualified consultant **must** be obtained.

4. All live or preserved animals or animal parts **must** be lawfully acquired from an approved source and their care and use **must** be in compliance with local, state and federal laws. *

5. The comfort of the animals shall be a prime concern. No research using live vertebrate animals shall be attempted unless the animals are obtained from a reliable source and the following conditions can be assured: appropriate, comfortable quarters; adequate food and water; humane treatment and gentle handling. Care must be provided at all times, including weekends and vacation periods.

6. No experiment involving anesthetics, drugs, thermal procedures, physical stress, organisms pathogenic to humans or other vertebrates, ionizing radiation, carcinogens or surgical procedures may be undertaken except under the direct supervision of an experienced and qualified biomedical scientist or designated adult supervisor. Surgical procedures may only be conducted in approved clinical facilities. A biomedical scientist is defined as someone who possesses an earned doctoral degree in science or medicine and who has current working knowledge of the techniques to be used in the research under consideration. A designated adult supervisor is defined as an individual who has been properly trained in the techniques and procedures to be used in the investigation. The biomedical scientist must certify that the designated adult supervisor has been so trained.

RESEARCH PLAN

Name of Entrant: _____

Project Title: _____

Purpose of Project: _____ Starting Date: _____

Name and address of site at which investigation will take place: _____

Number, species and source of animals (or if animal parts please specify) to be used: _____

_____

List objectives of the experiment and describe fully the methods and techniques involved (including planned use of anesthetics, drugs, thermal procedures, physical stress, organisms pathogenic to humans or other vertebrates, radiation, carcinogens or surgical procedures). When the use of electrical current, laser beams, sound stimuli or other artificial stimuli are an integral part of the Research Plan, they must not exceed the normal tissue tolerances for the species concerned (as indicated in the **Biology Data Handbook**, 2nd Edition, editors, P.O. Altman and D.S. Dittmer; publisher, Federation of American Societies for Experimental Biology).

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Described proposed methods of animal care (i.e. cage dimensions, type of bedding used, temperature range of cage room, and frequency of feeding, watering and cage cleaning).

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_____

Where will animals be returned when research is complete? _____

Name of Animal Care Supervisor _____ Name of Biomedical Scientist _____

Name of Designated Adult Supervisor _____Signature of Student _____

* Local, state and federal laws including the Comprehensive Drug Abuse Prevention and Control Act of 1970, Public Law 91-513, 91st Congress, HR18533, October 27, 1970, as amended (available at federal depository libraries or other large libraries).

CERTIFICATIONS

MUST BE COMPLETED FOR ALL PROJECTS INVOLVING LIVE VERTEBRATE ANIMALS,

CERTIFICATION BY TEACHER/ADVISOR: I agree to sponsor the student named above and assume responsibility for compliance with the existing rules and regulations pertaining to experiments with animals.

Signature_____

Name (type/print) _____

Date _____

Institution _____

Institution Address _____

CERTIFICATION BY ANIMAL CARE SUPERVISOR of compliance with Paragraph 3 of the ISEF Regulations for Experiments with Animals. (Must be completed prior to receipt of animals by student.)

> I certify that I have reviewed and approved the Research Plan and will supervise and accept primary responsibility for the quality of care and handling of the live vertebrate animals used by the designated student. I further certify that I am knowledgeable in the proper care and handling of experiment animals and meet prevailing animal care supervisory requirements.

Signature_____

Name (type/print) _____

Date _____

Institution _____

Institution Address _____

Title _____ Phone _____