

**SIM Science & Engineering Fair**  
**CERTIFICATION OF HUMANE TREATMENT OF LIVE VERTEBRATE ANIMALS**

<b>Name of Student:</b>	
<b>Project Title:</b>	

Any student research involving animals MUST COMPLY with the requirements of the California Education Code stated below and Regulation #8, page 7 of the Safety Rules of the Science & Engineering Fair.

HUMANE TREATMENT OF ANIMALS, State of California Education Code Title 2, Division 2, Part 28, Chapter 4, Article S (51540). In the public elementary and high schools or in public elementary and high school sponsored activities and classes held elsewhere than on school premises, live vertebrate animals shall not, as part of a scientific experiment or any purpose whatsoever:

- a) Be experimentally medicated or drugged in a manner to cause painful reactions or induce painful or lethal pathological conditions.
- b) Be injured through any other treatments, including, but not limited to, anesthetization or electric shock. Live animals on the premises of a public elementary or high school shall be housed and cared for in a humane and safe manner. The provisions of this section are not intended to prohibit or constrain vocational instruction in the normal practice of animal husbandry.

Experiments involving any procedures which are not in violation of the "painful reaction "or "injured" restrictions of the California Education Code and are not in violation of the Science & Engineering Fair rules are permitted If certified by a qualified biomedical scientist prior to the beginning of the investigation. It is permissible for the student and designated adult supervisor to consult with a biomedical scientist to obtain detailed instructions and guidance in the techniques to be used by the student under the direct, continuous supervision of the designated adult supervisor (for research not conducted in the biomedical scientist's lab). In this instance, the designated adult supervisor will be required to certify in writing jointly with the biomedical scientist. Either the biomedical scientist or adult supervisor must provide continuing supervision to assure compliance with the protocol. Major deviations from the approved protocol may be implemented only with the written approval of the biomedical scientist. The biomedical scientist or designated adult supervisor must be in the same locality as the student for the duration of the experimental work except for short trips. This means that a project started in one city may not be continued in another unless an alternate designated adult supervisor, approved by the biomedical scientist prior to the continuation of the experimental work, agrees to supervise the project. A biomedical scientist is defined as one 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 FOR HUMAN TREATMENT OF LIVE VERTEBRATE ANIMALS**

Purpose of Project: \_\_\_\_\_

Starting Date: \_\_\_\_\_

Site at which investigation will take place: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

# SIM Science & Engineering Fair

## RESEARCH PLAN FOR HUMAN TREATMENT OF LIVE VERTEBRATE ANIMALS (CONTINUED)

Live vertebrate animals to be used:

- a) Genus, species and common name: \_\_\_\_\_
- b) Number of animals: \_\_\_\_\_
- c) Animal(s) obtained from: \_\_\_\_\_

List objectives of the experiment and describe fully the methods and techniques involved. When the use of electrical current, laser beams, sound stimuli or other artificial stimuli is 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 S.S. Dittmer; publisher, Federation of American Societies for Experimental Biology).


Describe proposed methods of animal care:

- a) Cage size: \_\_\_\_\_
- b) Number of animals per cage: \_\_\_\_\_
- c) Temperature range (maximum and minimum) degree Celsius of room where animals are to be kept: \_\_\_\_\_
- d) Frequency of feeding and watering: \_\_\_\_\_
- e) Frequency of cleaning cage: \_\_\_\_\_
- f) Type of bedding to be used: \_\_\_\_\_
- g) Where will animal(s) be housed: \_\_\_\_\_
- h) Where will animal(s) be returned when research is complete: \_\_\_\_\_

Name of animal care supervisor: \_\_\_\_\_

Name of biomedical scientist: \_\_\_\_\_

Name of designated adult supervisor: \_\_\_\_\_

Signature of student: \_\_\_\_\_

**SIM Science & Engineering Fair**  
**THE FIRST TWO CERTIFICATIONS MUST BE COMPLETED FOR ALL**  
**PROJECTS INVOLVING LIVE VERTEBRATE ANIMALS**

**CERTIFICATIONS**

CERTIFICATIONS 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 or print): \_\_\_\_\_ Date: \_\_\_\_\_  
Institution: \_\_\_\_\_ Title: \_\_\_\_\_  
Institution Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Home Address: \_\_\_\_\_ Home Phone: \_\_\_\_\_

**CERTIFICATION BY ANIMAL CARE SUPERVISOR** of compliance with California Education Code (must be completed prior to receipt of animal(s) by the 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 animal(s) used by the designated student. I further certify that I am knowledgeable in the proper care and handling of experimental animals and meet prevailing animal supervisory requirements.

Signature: \_\_\_\_\_  
Name (type or print): \_\_\_\_\_ Date: \_\_\_\_\_  
Institution: \_\_\_\_\_ Title: \_\_\_\_\_  
Institution Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Home Address: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
Source of Authority/Expertise: \_\_\_\_\_

**NOTE:** Complete this page if your project involves experimentation with live vertebrate animals or animal parts in a research or clinical facility where the use of anesthetics, drugs or euthanasia becomes necessary.

**CERTIFICATION BY BIOMEDICAL SCIENTIST** (if required) of compliance with California Education Code and the Regulations for SIM Science & Engineering Fair (must be completed prior to the start of the project).

I certify that I have read the *DISPLAY AND SAFETY REGULATIONS* for the SIM Science & Engineering Fair, that I have reviewed and approved the Research Plan; that if the student or designated adult supervisor is not trained in the necessary procedures, I will ensure his/her training; that I will assure that the requirements of the California Education Code are fully met; that I will provide advice and supervision personally or through a designated adult supervisor throughout the project; and that I am a qualified scientist with an earned doctoral degree (Ph.D., M.D., D.V.M.) and a working knowledge of the techniques to be used by the students in this research.

Signature: \_\_\_\_\_  
Name (type or print): \_\_\_\_\_ Date: \_\_\_\_\_  
Institution: \_\_\_\_\_ Title: \_\_\_\_\_  
Institution Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Home Address: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
Source of Authority/Expertise: \_\_\_\_\_

**CERTIFICATION BY DESIGNATED ADULT SUPERVISOR** (if required).

I certify that I have been trained in the techniques to be used by this student; that I have read the General Regulations for the SIM Science & Engineering Fair; and that I will provide direct supervision for the research.

Signature: \_\_\_\_\_  
Name (type or print): \_\_\_\_\_ Date: \_\_\_\_\_  
Institution: \_\_\_\_\_ Title: \_\_\_\_\_  
Institution Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
Home Address: \_\_\_\_\_ Home Phone: \_\_\_\_\_  
Source of Authority/Expertise: \_\_\_\_\_