

GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR

**Certification of Humane Treatment of Live Vertebrate Animals —
(GSDSEF-2, 2009)**

Student research involving vertebrate animals or animal parts **MUST COMPLY** with the requirements of the *California Education Code*, the *GSDSEF*, and the *Intel International Science and Engineering Fair (Intel ISEF)*. **See Page 4.**

This form must:

- Be completed and signed before starting the project
- Be in the student notebook at screening, along with form *GSDSEF – 1, 2009*
- Be included with the *2009 Application for Entrance* if the student is invited to apply to the GSDSEF

Box 1 — Basic Information

1. **STUDENT'S NAME (Last, First, M.)** _____

- A. Phone _____
- B. Address _____
- C. School _____
- D. Teacher _____
- E. Grade _____

(Question 2 for Senior Division, 2-Person Projects ONLY)

2. **PARTNER'S NAME (Last, First, M.)** _____

- A. Phone _____
- B. Address _____
- C. School _____
- D. Teacher _____
- E. Grade _____

3. **PROJECT TITLE** _____

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Box 2 — Animals to be Used

- 1. Type _____
- 2. Number _____
- 3. Where Obtained _____

BOX 3 — Statement of Compliance and Signatures

With the understanding that failure to comply will result in disqualification, we CERTIFY THAT:

- The rules of the *GSDSEF* and the *Intel ISEF* will be followed
- No animal will be harmed or endangered in any way
- All animals will receive adequate nutritional food and water, comfortable living quarters, humane treatment and gentle handling at all times (including weekends, holidays, and vacations)
- Experiments will NOT involve surgery, toxicity, nutritional deficiency, physical or psychological stress, injury or the sacrifice of any animal

In projects other than observational studies of animals in their natural habitats, a biomedical scientist with an earned doctoral degree AND specific knowledge of the procedures involved will assume responsibility for the design

In addition we AGREE that should this student (**9th – 12th grade only**) be selected to compete at the *2009 Intel International Science and Engineering Fair (Intel ISEF)*, each person signing below will complete, pre-date to the date on this form and sign any *Intel ISEF* forms required for this project. *Intel ISEF* forms can be viewed on the *GSDSEF* website at www.gsdsef.org.

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Required Signatures

_____/_____
Student's Signature **Date**

_____/_____
2nd Student's Signature *(Senior Division 2-person projects only)* **Date**

_____/_____
Parent/Guardian's Signature **Date**

_____/_____
2nd Student's Parent/Guardian's Signature **Date**

_____/_____
Teacher's Signature **Date**

_____/_____
Animal Care Supervisor's Signature **Date**
(may be parent or teacher see ISEF Rules, Item 4 on Page 4)

_____/_____
Biomedical Scientist's Signature **Date**
(see GSDSEF Rules, Item 1 on Page 4)

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SPECIAL CONSIDERATIONS FOR VERTEBRATE ANIMALS

Student research involving animals/animal parts **MUST COMPLY** with the requirements of the *California Education Code*, the *GSDSEF* and the *Intel International Science and Engineering Fair (Intel ISEF)*. In case of conflict, the provisions of the *California Education Code* take precedence. The *State of California Education Code (Title 2, Division 2, Part 28, Chapter 4, Article 5 (51540))* states that:

“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 whatever: a. be experimentally medicated or drugged in a manner to cause painful reactions or induce painful or lethal pathological conditions, ‘or’ (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. These provisions are not intended to prohibit or constrain vocational instruction in the normal practice of animal husbandry.”

Excerpts, Intel ISEF Regulations for Experiments with Animals -- Prepared by Society for Science and the Public for exhibitors at the Intel ISEF and Affiliated Fairs:

- 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 make them especially suitable.
- 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), vertebrate embryos and fetuses and chicken embryos prior to three days (72 hours) before 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.
- **Animal Defined:** The International Rules define an animal as any live, nonhuman vertebrate, mammalian embryo or fetus, bird eggs within three days (72 hours) of hatching, and all other vertebrates at hatching or birth.
- 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 faculty includes no one with adequate training in this area, the services of a qualified consultant must be obtained.

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- 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.
- 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.

Excerpts, GSDSEF Rules and Regulations for Experiments with Animals

- The biomedical scientist (with an earned doctoral degree in the science of medicine and who has current working knowledge of the techniques to be used in the research under consideration) must provide continuing supervision to assure compliance with the experimental protocol and any major deviations from the approved protocol may be implemented only with the written approval of the biomedical scientist. The biomedical scientist must be in the same locality as the student for the duration of the experimental work (except for short durations).
- Experiments involving procedures not in violation of the “painful reaction” or “injured” restrictions of the *California Education Code* are permitted if certified by a qualified biomedical scientist PRIOR TO the beginning of the investigation. NOTE: GSDSEF rules do not permit students OR their adult supervisors, as part of a student-planned/conducted project, to 1) perform surgery; 2) conduct experiments involving toxicity, nutritional deficiency, or harmful physical or psychological stress or 3) perform the sacrifice of live vertebrate animals. Projects designed with the intent to harm or kill ANY animal are prohibited.

Please contact Philip D. Gay – (619) 697-2024 or phil@gsdsef.org or src@gsdsef.org -- regarding questions or concerns related to using vertebrate animals in a project.

GSDSEF USE: SRC APPROVAL

