

GREATER SAN DIEGO SCIENCE & ENGINEERING FAIR

**Certification of Vertebrate Tissue Source and Safety —
(GSDSEF- 5, 2009)**

Student research **MUST COMPLY** with the requirements of the *GSDSEF* and the *Intel International Science and Engineering Fair (Intel ISEF)*.

THIS FORM MUST:

- BE COMPLETED AND SIGNED PRIOR TO STARTING THE EXPERIMENT
- BE IN THE STUDENT'S NOTEBOOK AT THE SCREENING FAIR ALONG WITH THE FORM *GSDSEF – 1, 2009*
- BE INCLUDED WITH THE *2009 Application for Entrance* IF THE STUDENT IS INVITED 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 — Complete ALL Sections

Read Page 6 first!

List tissue(s) to be used in experiments (See items 1 – 5 on Page 4)

Where will the tissue(s) be obtained? (read item 4 on Page 4)

Provide the following Information

Name of Adult Supervisor _____

Supervisor's Organization _____

Supervisor's Title _____

Supervisor's Phone Number _____

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Describe IN DETAIL the procedures, safety precautions and disposal methods to be followed by the STUDENT.

Describe IN DETAIL the procedures, safety precautions and disposal methods to be followed by the AUDLT SUPERVISOR.

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BOX 3 — Statement of Compliance and Signatures

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

- The rules and regulations of the GSDSEF and the Intel ISEF will be followed
- The procedures to be followed will ensure that neither they nor the materials employed will constitute any known danger to persons or the environment
- Vertebrate animal tissue provided is from (1) a continually maintained tissue culture or (2) from animals already being used in ongoing institutional research (NOTE: in the case of 2, the student(s) must indicate in the procedures section of his/her report that materials were by-products from another procedure and animals were not sacrificed (a.k.a. euthanized) for the student's project)
- Any human tissue, body fluids, blood and blood products are in compliance with my organization's blood-borne pathogens exposure control plan and have been tested and certified free of human – immunodeficiency virus (HIV) as well as hepatitis B and C antibodies and antigens
- Human teeth to be used are certified free of blood and blood products and/or have been processed to assure no hazard from HIV or hepatitis B or C virus remains (see items 1 and 2 on Page 6)
- 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.
- In addition to complying and/or confirming the truth of the above certifications, **THE ADULT SUPERVISOR CERTIFIES** that he/she will supervise the student, that any of the materials listed and used will be provided by him/her or his/her institution, that the student will NOT be involved in the direct acquisition of tissue samples and that he/she will assume responsibility for the proper disposal of any chemicals or tissues to be used in the student's project.

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_____/_____
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

_____/_____
Adult Supervisor's Signature

Date

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SPECIAL CONSIDERATIONS FOR PROJECTS INVOLVING VERTEBRATE TISSUES

The following are examples of precautions that must be taken to prevent inappropriate use of, or injury from, human or other vertebrate tissue to persons or the environment. No list could possibly foresee all possible situations, so teachers, parents and students must carefully plan and follow safe procedures specific for each study. Include all related concerns you anticipate or encounter and necessary precautions on *GSDSEF-5, 2009*.

1. If human blood, blood products, body fluid or tissue (including hair roots) are used, the student must obtain (in addition to the completed forms *GSDSEF-1, 2009* and *GSDSEF-3, 2009*) a signed statement, on laboratory letterhead, that any human tissue (including hair roots), body fluids, and blood and blood products have been tested and certified free of human immunodeficiency virus (HIV) and hepatitis B and C antibodies and antigens prior to the student receiving the material.
2. If human teeth are used the student must, before receiving them, obtain (in addition to the completed forms *GSDSEF-1, 2009* and *GSDSEF-3, 2009*) a signed statement, on organizational letterhead, that any human teeth provided are certified free of blood and blood products or specifying approved procedures that have been followed to assure no hazard from HIV or Hepatitis B and C remains.
3. Tissues from vertebrate animals must be acquired from institutional researchers and be from either a continuously maintained tissue cell culture line or from animals already being used in an on-going institutional research project. In either case, a clear statement including the phrase "from a continuously maintained tissue (or cell) culture from ____ "lab" or "tissue was obtained as a by-product of ongoing research in a laboratory at ____."
4. Arrangements must be made to ensure that any proposed procedure is safe before any project proposal is approved. Whenever specialized safety equipment and/or facilities (e.g., fume hoods, clinical laboratory) are necessary for a procedure, arrangements must be made in advance.
5. Other vertebrate tissue concerns not listed above should be addressed on a separate sheet attached to this form.

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

GSDSEF USE: SRC APPROVAL