

NORTHERN CALIFORNIA WESTERN NEVADA REGION
NATIONAL JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM

**SCIENTIFIC REVIEW COMMITTEE
SCIENCE REVIEW FORM**

This document is to be completed by any student whose project involves (even if only observing) human, non-human vertebrate animals, invertebrate animals or bacteria, recombinant DNA, tissues, pathogenic agents, or controlled substances.

The form is to be completed with all necessary signatures and filed not later than Friday, December 10, 2010. If you have any questions, please contact Roger Martin at (510) 642-4155.

When completed you may submit the form in any of the following formats:

Email attachment – rmartin@berkeley.edu Fax – (510) 642-4156

Mail – Roger Martin, Director, JSHS,
Lawrence Hall of Science,
University of California at Berkeley,
Berkeley, CA 94720-5200

Student Name _____ Grade _____

Name of School/Adult Sponsor _____

School/Sponsor Address _____

School/Sponsor Phone _____ Email _____

Home Phone _____ Email _____

Where will you conduct your research? (Please check all that apply)

At school _____ At home _____ In the field _____ At a research institution _____

Medical setting _____ University _____ Industrial/Commercial Lab _____ Government Lab _____

(If you performed your work at any of the research institution settings, you must complete Section 6.)

Check here if your work involves humans _____ Complete Sections 1, 7, 8 and the Human Consent Form

Check here if your work involves invertebrates, bacteria or non-human vertebrates _____

Complete Sections 1, 4, 7, and 8 **Please be sure to read Section 2 before starting.**

Check here if your work involves recombinant DNA, pathogenic agents, or controlled substances _____

Complete Sections 1, 4, 7, and 8 **Please be sure to read Section 3 before starting.**

Check here if your work involves human or animal tissues _____ Complete Sections 1, 4, 5, 7, and 8

Please be sure to read Section 5 before starting.

SECTION 1: To be completed by all students filing this Proposal Form.

A. What is the purpose of your study?

B. Describe your experimental procedures with as much detail as possible. Use and attach additional page(s) as necessary. If your study involves a survey of humans, please attach a copy of the survey questions. For any project dealing with humans, please be sure to keep a file of all completed Human Consent Forms.

SECTION 2: To be completed by all students whose research involves, non-human vertebrate animals, bacteria or invertebrate animals.

- A. Are there any alternatives to the use of live animals or cultures in your research? If not, why did you not find those alternatives acceptable for your study?
- B. Describe in detail how the animals or cultures will be used. Identify (where appropriate) the species, strain, source, sex, age, and number of subjects proposed for use. It will be important for you to use the minimum number of animals deemed necessary for your study.
- C. Explain the potential impact or contribution this research may have on the fields of biology, medicine, or bio-technology.
- D. Provide detailed information on the housing, care, and environment of your subjects. If you are working with non-human vertebrate animals, provide information on the veterinary medical care in case of illness or injury and the name of the veterinarian supervising the project.
- E. Explain how your subjects will be handled or disposed of at the end of your project. If euthanasia is to be used, provide the name of the qualified scientist and describe the method in detail.

SECTION 3: To be completed by all students using recombinant DNA, any pathogenic or controlled substance.

A. Specify what substance will be used.

B. What is the source of your material?

SECTION 4: To be completed for all students by the appropriate supervisor(s): A person with an earned doctoral degree in science or medicine or a person with a master's degree with equivalent experience and/or expertise. The person should be one who is appropriate to the field of research being done by the student.

"I certify that I have reviewed and approved the research proposal prior to the start of the study. If the supervising teacher is not trained in the necessary procedures, I will provide the necessary advice and supervision during the course of the study. I hereby accept responsibility for the condition and humane treatment of all living animals used in the project, both during and after its completion. I am a qualified scientist with a working knowledge of the techniques to be used by the student in this research plan."

Name of supervising teacher or scientist _____

Address _____

Phone _____ Email _____

Title or degree _____

Signature _____ Date _____

SECTION 5: To be completed by all students using human or animal tissues.

In your Section 1 description, be sure to include responses to the following:

- a. What is the tissue and/or organ to be used?
- b. What is the source of your material?

To be completed by the provider of your material when obtained from a non-commercial source.

Provider's Name _____ Title _____

Institution _____

Address _____ Phone _____

Signature _____ Date _____

SECTION 6: To be completed by all students whose research is carried out in a research facility.

- a. Where do you plan to do your research?
- b. How did you get the idea for your work?
- c. Will your work be a part of a team or group?
- d. What, specifically, will be your work and responsibilities?

“I certify that I have reviewed and approved the research proposal prior to the start of the study. If the student is not trained in the necessary procedures, I will ensure the training is done prior to starting the study, and that I will provide advice and supervision during the course of the study.”

Name of Supervising Scientist _____

Institution _____

Phone _____ Email _____

Signature _____ Date _____

SECTION 7: To be completed by the supervising teacher.

“I have read all the rules and regulations of the Junior Science and Humanities Symposium regarding projects involving humans, non-human vertebrates, invertebrates and bacteria, recombinant DNA, and pathogenic and controlled substances, and I have discussed these with my student. The student has read and understands the guidelines and requirements and rules for this project and I will be responsible for the compliance of the student with them. I have checked and assured myself that the student has collected and has on file the signed consent/waiver forms for any human subjects involved in the research.”

Name of Sponsoring Teacher _____

Signature _____ Date _____

SECTION 8: To be completed by all students.

_____ Yes _____ No I have read and understand the guidelines, rules and regulations regarding the use of humans, non-human vertebrates, invertebrate animals and bacteria, recombinant DNA, and pathogenic and controlled substances in a research project.

_____ Yes _____ No My sponsoring teacher has reviewed the guidelines, rules and regulations with me.

_____ Yes _____ No _____ N/A I have a file of the signed consent/waiver forms for each human subject involved in my research.

Student Signature _____ Date _____

PARENT/GUARDIAN APPROVAL

I have read and understand the risks and possible dangers in this research plan. I consent to my Child participating in this research project.

Parent/Guardian Signature _____ Date _____

Phone _____ Email _____

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HUMAN INFORMED CONSENT FORM

This form is required to be completed and kept for each human subject involved in a student science research project. These forms are to be held by the student researcher and not to be submitted to the JSHS office.

TO BE COMPLETED BY THE STUDENT RESEARCHER

Be sure to complete this section BEFORE making copies for your human subjects. They are not to sign a blank consent form.

Name of Student Researcher: _____

Title of Research Project: _____

1. What are the research procedures in which your subjects will be involved?

2. What are any possible discomforts or risks that may be reasonably expected by persons participating in this research?

3. What procedures will be used to minimize the risks described above?

4. If this is a "Survey" project, has your sponsoring teacher or mentor reviewed the questions with you prior to distribution of the survey? Yes _____ No _____

TO BE COMPLETED BY THE HUMAN SUBJECT PRIOR TO EXPERIMENTATION

I have read and understand the conditions stated above, and I consent to participate in this research. I realize that I am free to withdraw my consent and to withdraw from this activity at any time without prejudice toward me.

Participant Signature: _____ Date: _____

If the participant is under the age of 18 years, a parent or guardian signature is required.

Parent/Guardian Signature: _____ Date: _____