CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 REGULATIONS FOR RESEARCH INVOLVING HUMAN SUBJECTS,
TISSUE SAMPLE SOURCES (INCLUDING DNA SOURCE MATERIALS),
AND HUMANE TREATMENT OF LIVE VERTEBRATE ANIMALS

The following codes apply to all student research projects. Project advisors must acknowledge on the
certification forms that the student has complied with all research regulations.

FOR ALL PROJECTS INVOLVING HUMANS AS THE SUBJECT OF RESEARCH:

The Code of Federal Regulations 45 CFR 46
§46.102 defines
"Human Subject" means a living individual about
whom an investigator (whether professional or
student) conducting research obtains (1) data
through intervention or interaction with the
individual, or (2) identifiable private
information. In order for the obtaining of
private information to constitute research
involving human subjects, the identity of the
subject must be readily associated with the
information.
"Minimal Risk" means that the risks of harm
anticipated in the research are not greater,
considering probability and magnitude, than
those ordinarily encountered in daily life or
during the performance of routine physical or
psychological examinations or tests.

Examples of unacceptable risk include: (1) ingestion
or physical contact with any potentially hazardous
materials including toxic chemicals, known or
suspected pathogens or carcinogens, or exposure to
ionizing radiation; (2) intentionally inducing
emotional stress through questioning or invasion of
privacy; (3) physical stress to pregnant women or
anyone suffering debilitating physical illness; and
(4) psychological stress to the mentally handicapped
or those suffering psychiatric disorders. This list is
intended to be illustrative, not exhaustive.

The regulations of the Fair are intended to
protect human subjects, both physically and
psychologically. The regulations supplement, and
do not supplant, relevant State and Federal
regulations dealing with such protection.

FOR ALL PROJECTS INVOLVING TISSUE SAMPLES:

Live tissue samples must be taken either from a
continuously maintained tissue culture line already
available to institutional researchers, or from animals
already being used in an on-going institutional
research project.

Students may not be involved in the direct
acquisition of these samples from living human or
vertebrate animals.

FOR ALL PROJECTS USING ANY LIVE VERTEBRATE ANIMAL, EXCLUDING HUMANS:

The State of California Education Code §51540:
In the public elementary and high schools or in
public elementary and high school 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.

(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 practices of
animal husbandry.
### 2018 CERTIFICATION OF COMPLIANCE FOR RESEARCH INVOLVING HUMAN SUBJECTS, TISSUE SAMPLE SOURCES, AND HUMANE TREATMENT OF LIVE VERTEBRATE ANIMALS

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**PROJECT TITLE**

This form is for:

- Compliance for Research Involving Human Subjects
- Tissue Sample Source Verification
- Humane Treatment of Animals

We certify that the experimental procedure used in this science fair project complies with State and Federal regulations including, but not limited to, 45 CFR 46 §46.102 and California Education Code §51540:

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**PROJECT ADVISOR**

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