BE BOLD. Shape the Future.
College of Agricultural, Consumer and Environmental Sciences

Agricultural Science Fair Contest
Hazardous Materials Waiver Form

Please list below all of the hazardous substances used in this research. Include all safety precautions to be taken and the proper disposal procedures:

The applicant, by signing below, agrees to the regulations included regarding the use of hazardous materials. I certify that I will follow the above listed safety precautions and disposal procedures.

_____ _____

Student Signature Date

_____ _____

Supervising Adult Signature Date

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Agricultural Science Fair Contest
Human Vertebrate Form

Exhibitor Legal Name:

First: _____ MI: _____ Last: _____ .

Recognizing that human beings are vertebrate animals and yet need different criteria than nonhuman vertebrates, the following policies will govern the use of human beings:

1. No projects involving human cultures of any type (mouth, throat, skin, or otherwise) are allowed. However, tissue cultures purchased from reputable biological supply houses or research facilities are suitable for student researcher(s) use.
2. Projects that involve taste, color, texture or any other choice are allowed, but are limited to preference only. Quantities of normal food and non-alcoholic beverages are limited to normal serving amounts or less. No project may use drugs, food or beverages in order to measure their effect on a person.
3. The only human blood that may be used must be obtained from either a blood bank, hospital, or laboratory. No blood may be drawn by any person or from any person specifically for an Agricultural Science project. This rule does not preclude student researcher making use of the data collected from blood tests not made exclusively for an Agricultural Science project.
4. Psychological, educational, and opinion studies are allowed. Projects that involve learning, ESP, motivation, hearing and vision are also permitted (examples might include surveys, questionnaires, tests, etc.)
5. Data/record review studies in which the data is taken from preexisting data sets that are publically available and/or published and do not involve any interaction with humans or the collection of any data from a human participant for the purpose of the research project are allowed.
6. No project will be allowed that is in violation of these rules. No person may perform any experiment for student researcher that violates any of the rules.

In the space below, briefly describe the use of humans in your project.

The signatures of the student and the CEA/AST/Supervisory Adult indicate this project conforms to the above rules.

STUDENT NAME (printed): _____

STUDENT'S SIGNATURE: _____

SUPERVISING ADULT: _____

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Agricultural Science Fair Contest
Non-Human Vertebrate Form

Exhibitor Legal Name:

First: _____ MI: _____ Last: _____ .

These rules are strictly enforced. Students and advisors using non-human vertebrates in their project must complete this form. The signature of the student and the advisor indicate the project was done within the rules and regulations of the New Mexico State Fair Agricultural Science (AgriScience) rules and guidelines in accordance with the use of non-human vertebrate.

1. The use of vertebrate animals in AgriScience projects is allowable under the conditions and rules below. Vertebrate animals are defined as:
   a. Live, nonhuman vertebrate mammalian embryos or fetuses.
   b. Tadpoles.
   c. Bird and reptile eggs within three days (72 hours) of hatching.
   d. All other non-human vertebrates (including fish) at hatching or birth.
2. Vertebrate animal studies may be conducted at a home, school, farm, ranch, in the field, etc. This includes:
   a. Studies of animals in their natural environment.
   b. Studies of animals in zoological parks.
   c. Studies of livestock that use standard agricultural practices.
   d. Studies of fish that use standard aquaculture practices.
3. Intrusive techniques used cannot exceed momentary pain and must comply with commonly accepted agriculture and livestock management procedures.
4. Student researcher(s) are prohibited from designing or participating in an experiment associated with the following types of studies on vertebrate animals:
   a. Induced toxicity studies with known toxic substances that could cause pain, distress or death, including but not limited to alcohol, acid rain, harmful chemicals or heavy metals.
   b. Behavioral experiments using conditioning with aversive stimuli, mother/infant separation or induced helplessness.
   c. Studies of pain.
   d. Predator/vertebrate prey experiments.
5. Food and water cannot be used or withheld for more than 24 hours for maze running and other learning or conditioning activities.
6. The student researcher(s) and advisor have the responsibility to see that animals are properly cared for in a well-ventilated, lighted and warm location with adequate food, water and sanitary conditions. Care must be taken to see that organisms are properly cared for during weekends and vacation periods.
7. Livestock or fish raised for food using standard agricultural/aquacultural production practices may be euthanized by a qualified adult for carcass evaluation.
8. No vertebrate animal deaths due to the experimental procedures are permitted in any group or subgroup.
   a. Studies that are designed or anticipated to cause vertebrate animal death are prohibited.
   b. Any death that occurs must be investigated by a veterinarian or another professional qualified to determine if the cause of death was incidental or due to the experimental procedures. The project must be suspended until the cause is determined and then the results must be documented in writing. c. If death was the result of the experimental procedure, the study must be terminated, and the study will not qualify for the New Mexico State Fair AgriScience Fair.
9. Projects that involve behavioral studies or newly hatched chickens or other birds will be allowed, provided no change has been made in the normal incubation and hatching of the organism and all vertebrate rules are followed.

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Agricultural Science Fair Contest
Non-Human Vertebrate Form

Exhibitor Legal Name:

First: _____ MI: _____ Last: _____ .

The student and supervising adult must make sure that research project complies with all of the rules of the New Mexico State Fair AgriScience contest as well as all applicable State and Federal regulations on the humane treatment of non-human vertebrates. Potential resources include but are not limited to:

- **Federal Animal Welfare Regulation** (https://www.govinfo.gov/content/pkg/CFR-2013-title9-vol1/xml/CFR-2013-title9-vol1-chapI-subchapA.xml)
- **Guide for the Care and Use of Laboratory Animals** (https://grants.nih.gov/grants/olaw/Guide-for-the-Care-and-use-of-laboratory-animals.pdf)
- **Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching** (https://www.asas.org/docs/default-source/default-document-library/ag_guide_3rded.pdf?sfvrsn=4)
- **Quality Assurance Manuals for appropriate species**

In the space below, briefly describe the use of vertebrate animals in your project and provide validation for ethical treatment. Use the back of the page if additional space is needed.

The signatures of the student and the CEA/AST/Supervisory Adult indicate this project conforms to the above rules.

STUDENT NAME (printed): _____

STUDENT'S SIGNATURE: _____

SUPERVISING ADULT: _____

BE BOLD. Shape the Future.
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Agricultural Science Fair Contest
Adult Sponsor Checklist

On behalf of the exhibitor listed below:

Exhibitor Legal Name:

First: _____ MI: _____ Last: _____.

_____ 1) I have reviewed the research plan.

_____ 2) The student and a parent/guardian have reviewed the Research Plan Approval Form.

_____ 3) This project involves the following area(s) and had prior approval before experimentation.

a. Human Subjects
b. Non-human Vertebrate Animals
c. Pathogenic Agents
d. Controlled Substances
e. Recombinant DNA
f. Human or Animal Tissue

_____ 4) This project does not involve any of the research areas listed in #3.

_____ 5) This project involves the hazardous substances or devices checked below. Prior approval by the adult sponsor and a designated supervisor was obtained.

a. Chemicals (i.e. hazardous, flammable, explosive or highly toxic: carcinogens; mutagens and all pesticides). I have reviewed with the student the Safety Sheet for each chemical that was used. I also reviewed the proper safety standard for each chemical including toxicity data, proper handling techniques and disposal methods.
b. Equipment (i.e. welders; voltage greater than 220 volts). I have reviewed with the student proper operational procedures and safety precautions for the equipment.
c. Firearms I have reviewed with the student the proper safety standards for firearms use.
d. Radioactive Substances I have reviewed the proper safety standards for each radioactive substance with the student prior to experimentation.
e. Radiation (i.e. x-ray or nuclear; unshielded ionizing radiation of 100-400 nm wavelength) I have reviewed with the student the proper safety methods concerning the type of radiation the student used prior to experimentation.

ADULT SPONSOR NAME (printed): _____

ADULT SPONSOR SIGNATURE: _____

DATE: _____ *NOTE: Adult review should occur before the first date in experiment log

A complete entry MUST INCLUDE: Online Entry Submittal, Hazardous Material Waiver, Adult Sponsor Checklist, Human Vertebrate Form, and Non-Human Vertebrate Form. All forms MUST be complete.