**Name**: Enter your name here.

**Grade**: Enter your grade here.

**Category**: Enter your proposed ISEF category here. More information available at <http://www.societyforscience.org/isef/project_categories>.

**Project Title**: Enter your proposed project title here. This cannot exceed 65 characters including spaces. Please put the character count after your title in parentheses.

**Will this be an individual or team project?** Team or Individual (select one and delete extra text)

*Team Member Name and Grade***:** Type the name of your team members

**Project Summary:** Provide a brief summary of you’re the actual work you did as a part of your research project. Detail how your methods evolved and were modified from the original plan. Also, briefly discuss the findings of your work.

1. **Research Question or Problem being addressed.**

State your research question or problem here. Include a rationale statement afterward that specifies why this project is meaningful. Please note that you must you complete sentences throughout this document. Please refer to the Research Plan Instructions from ISEF (<http://www.societyforscience.org/document.doc?id=14>) for further clarification.

1. **Hypothesis or Engineering Goals**

Enter you hypotheses, sub hypothesis, and/or engineering goals here.

1. **Detailed Description of Procedures**

***Experimental Design*:**

Enter your experimental design here. This should include information about your independent and dependent variables, the values of each variable, measurements, trials, constants, and controls.

***Procedure*:**

Enter your procedure description here. This should include the identification of the important major sections of the procedure and a description of each section.

***Data Analysis:***

Describe the procedures you will use to analyze the data that answer your research question or hypothesis. This should include your graphs, descriptive, and inferential statistics.

1. **Bibliography**

List a minimum of five major references in APA format. At least two of these should be from published books and at least three of these should be journal articles on prior research in this field. At least one of your references must be related to the procedures you plan to use in this study.

**Subject-Specific Guidelines-** Delete sections that do not apply to your project but answer those that do completely

Enter any additional items that are required by ISEF for your research plan based on the elements it includes. If you have questions about one of these areas apply to you, please refer to the rules website for each.

1. **Human subjects research**- <http://www.societyforscience.org/page.aspx?pid=317>

Sample Selection

* Participants. Describe who will participate in your study (age range, gender, racial/ethnic composition). Identify any vulnerable populations (minors, pregnant women, prisoners, mentally disabled or economically disadvantaged).
* Recruitment. Where will you find your participants? How will they be invited to participate?
* Methods. What will participants be asked to do? Will you use any surveys, questionnaires or tests? What is thefrequency and length of time involved for each subject?

Risk Assessment

* Risks. What are the risks or potential discomforts (physical, psychological, time involved, social, legal etc) to

participants? How will you minimize the risks?

* Benefits. List any benefits to society or each participant.
* Protection of Privacy. Will any identifiable information (e.g., names, telephone numbers, birthdates, email addresses) be collected? Will data be confidential or anonymous? If anonymous, describe how the data will be collected anonymously. If not anonymous, what procedures are in place for safeguarding confidentiality? Where will the data be stored? Who will have access to the data? What will you do with the data at the end of the study?
* Informed Consent Process. Describe how you will inform participants about the purpose of the study, what theywill be asked to do, that their participation is voluntary and they have the right to stop at any time.

1. **Vertebrate animal research** - <http://www.societyforscience.org/page.aspx?pid=318>

* Briefly discuss potential ALTERNATIVES to vertebrate animal use and present a detailed justification for use of vertebrate animals
* Explain potential impact or contribution this research may have
* Detail all procedures to be used
* Include methods used to minimize potential discomfort, distress, pain and injury to the animals during the

course of experimentation

* Detailed chemical concentrations and drug dosages
* Detail animal numbers, species, strain, sex, age, source, etc.
* Include justification of the numbers planned for the research
* Describe housing and oversight of daily care
* Discuss disposition of the animals at the termination of the study

1. **Potentially hazardous biological agents**- <http://www.societyforscience.org/page.aspx?pid=319>

* Describe Biosafety Level Assessment process and resultant BSL determination
* Give specific source of agent, source of specific cell line, etc. Identify it as specifically as possible.
* Detail safety precautions
* Discuss methods of disposal

1. **Hazardous chemicals, activities, and devices**- <http://www.societyforscience.org/page.aspx?pid=320>

* Describe Risk Assessment process and results
* Detail chemical concentrations and drug dosages
* Describe safety precautions and procedures to minimize risk
* Discuss methods of disposal