BIOL 121 Research Proposal: Unit 2

# Section 1. Research Question

## 1.1 What is your primary research question?

# Section 2. Research/Literature Review

## 2.1 List five key concepts that are instrumental in understanding your research questions.

1.

2.

3.

4.

5.

# Section 3. Your Study & Hypothesis

## 3.1 How does your study connect with your larger research question?

## 3.2 What is your hypothesis and potential mechanism (i.e., because)? Be sure to include a null hypothesis as well.

## 3.3 What is the prediction (based on your hypothesis) to be tested?

# Section 4. Experimental Design

## 4.1 Provide a brief description of your proposed experiment.

## 4.2 Use the table below to identify the variables in your experiment.

|  |  |
| --- | --- |
| Dependent Variable (DV) |  |
| Method of Measurement of DV |  |
| Independent Variable (IV) |  |
| Method of Measurement of IV |  |
| List all potential confounding variables and methods of control |  |

## 4.3 Draw a figure representing your experiment design. It can be a flow chart or other type of diagram.

## 4.4 List any drawbacks or issues that may affect the validity or reliability of your experiment. Also include the mechanism you will put in place to negate these effects.