

## **LB145 F14**

### **Avida-ED Project Proposal and Proposal Presentation Guidelines and Expectations (20 points Total)**

#### **Proposal (15 points)**

Write up a *brief* summarizing your team's proposed research project. The following sections must be included:

**Question.** Describe the evolutionary question that your team has. Why is it interesting and cool?

**Hypothesis.** Frame and present a hypothesis that will allow you to test your evolutionary question using Avida-ED.

**Experimental Design.** Develop an experimental plan that your team will follow to test your hypothesis. Describe relevant variables, what data you intend to collect, and how many replicates you will carry out.

**Predict:** Indicate what experimental outcomes you would expect to find if indeed your hypothesis is true.

#### **Rubric for Grading the Proposal**

##### ***Three points each awarded for:***

1. The question your team is asking and why your team chose it.
2. Your team's hypothesis, stated formally.
3. The description of the experimental methods to be employed in your study.
4. How you will analyze and interpret your results, depending upon what they are. In other words, what conclusions will be drawn, depending on the outcomes of your experiments?
5. Overall structure and presentation of the written document. Is it logical and clear, etc.

Points will be awarded in each area based on the quality and the completeness of the write-up.

## **Avida-ED Proposal Presentation (5 points)**

**Teams should create a set of 6 pptx slides.**

### ***1. Title slide (Student “A”)***

- Introduces the team and its members; shows project title

### ***2. Introduction (Student “A”)***

- Describes the team’s original question and their study system
- Tells audience why it’s interesting (why do I care?)
- Provides some of background (from the literature?)

### ***3. Hypothesis (Student “B”)***

- Shows and explains the team’s Experimental Hypothesis and why it is a high quality hypothesis

### ***4. Experimental Methods (Student “C”)***

- Describes the experimental methods to be employed in the study

### ***5. Predictions (Student “B”)***

- Describes what you predict you will see if your hypothesis is correct

### ***6. Data Analysis (Student “D”)***

- Shows what data resulting from the experiment might look like, and how the team will interpret them in the light of their hypothesis

**LB145 F14  
Avida-ED Proposal Presentation  
Grading Rubric**

**Team Name** \_\_\_\_\_

**Teams Points (3)**

***Overall Team Preparedness (1)***

- Team is on time and ready to roll
- Transitions between presenters is smooth
- All have good grasp of project and its components

***Presentation Effectiveness (1)***

- How good is the slide set (as a whole)?

***Content/Information Completeness (1)***

- All slides present
- Succinct
- Succulent

**Individual Points (2)**

Student "A"
-------------

***Individual slide presentation (1)***

- Delivery (0.5)
- Knowledge of content (0.5)

Student "B"
-------------

***Knowledge of overall project (1)***

- Response to question from the panel (1)

Student "C"
-------------

Student "D"
-------------