**Week 12: Draft Lab Report**

Learning Objectives for Promoter Discovery

*Skills*

* Write a lab report summarizing your semester-long research project.

*Cognitive*

* Employ a scientific approach to answering biological questions and test hypotheses.
* Analyze experimental data and reach logical conclusions.
* Describe the big idea of information based on lab experiences.
* Review the information contained within promoters.
* Use protocols for molecular biology to clone DNA.
* Interpret Synergy data for fluorescence and optical density.
* Summarize the results from two rounds of experimentation with DNA control elements.

**Pre-Lab**

1) Download the Final lab report template (Word file)

2) Answer each of these four questions in two sentences or less.

A) Your target audience for your final lab report is a college student who has completed introductory biology. How much jargon do you think is appropriate for your report?

B) What value does your ongoing PPT file provide to you now that you have to write the final lab report?

C) Because this is a solo-project, which shared information can you use and which information should be completely your own work?

D) How would you characterize the PCR vs sequencing genotype confirmation used in this project?

Challenge to be discussed in lab groups: Using the information in the 4 questions above, discuss how you are going to have to work on your own to produce your final lab report. You may use your personal PPT file, but not your labmates’ PPT files. What information should be included in this report and what parts are not, based on the final report template.

**Information: Synthesize Extended Project**

In Lab

1) The entire lab will be spent discussing your data and you writing the first draft. You can share figures, data and methods, but the writing should be a solo experience. Each person should be listed as first author, with lab group members as additional authors.

2) You may continue to work on this report after lab which must be emailed to your instructor before the final lab meeting.

3) Complete CATME.