**Research Proposal for Bio113 DNA Control Element**

3-4 pages maximum, 1.5 spacing, including all figures

Title: (summarize research goal) 20 word maximum

Authors: listed in order of birth month and date (non-alphabetical order)

Abstract: 100 word maximum to summarize project proposal, no in-text citations

Introduction: summarize the promoter you are working with, and how *E. coli* cells might process the information you will transform into them. 200 word maximum

Prior Results: must include the name of your promoter, at least one figure. All figures must have figure legends. Summarize your results and interpretations of these data. 250 words maximum, not counting figure legends.

Specific Aim: Explain in detail the particular goal of your next experiment. What changes have you made from the prior research, and why? 150 words

Methods

* Receiving plasmid (J119137, pClone Red)
* Both oligos you want to have synthesized (listed 5’ on the left side) with 4 base sticky ends included. Use this format:

Namegroup\_v2\_top;NNNNNNNNNNNN

Namegroup\_v2\_bot;NNNNNNNNNNNN

* Growth conditions:
* How will you clone new DNA:
* What color colonies will you pick:
* What will you measure:

Possible Outcomes: Sketch a graph of what you hypothesize might happen with v2. Include v1 in your sketch for comparison.

Confirmation: How could you confirm you have cloned the right sequence?

References: cite lab manual, textbook, and any papers you used