**Zach Sergi, Genetics Honors Section**

Incorrect biobrick analysis

1. 13i 2014 kit plate 3

This biobrick is classified as a “project” and contains a promoter, site specific recombination cassette, and two terminators. The sequencing is confirmed on the igem website for the 2014 kit. This biobrick works with the antibiotic marked pSB1C3, the same used for the other 3 promoters. However the promoters for this brick remains on until repressed by the presence of tetracycline. This is not useful for our experiment and therefore cannot be used.

2. 10i 2014 kit plate 1

This biobrick is contains only a coding sequence and no promoter, needed for the experiment. The sequencing is confirmed on the igem website for the 2014 kit. The coding sequence is used for a certain protein expression in magnetic bacteria, which after further research could possibly be used for metal detection from magnetic attraction. This biobrick works with the same antibiotic (pSB1C3) as the other biobricks.

3. 1O 2014 kit plate 3

This biobrick is a composite part of a promoter, ribosomal binding site, and coding sequence. The sequencing is inconsistent on the igem website, making it not reliable for the experiment. The promoter in the composite part is always on except when repressed from the presence of TetR, making it not useful for the experiment.