**Bio111 Week 7**

Before you come to lab

1) Predict what you will see on your plate with the experimental treatment.

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

A) How will you know when to test your bacteria for antibiotic resistance? (evolution)

B) What could you do to sped up the evolution? (evolution)

C) Should *Dictyostelium* be classified as unicellular or multicellular? Support your answer with data. (emergent property)

D) Are slime mold spores the product of mitosis, meiosis, or sexual reproduction? (emergent property)

**Week 7 (October 6th)**

This week will be a very short lab.

Emergent Properties In Lab

1) Observe your slime mold slugs to see if you were able to alter the life cycle. Look at your slime mold slugs from last week, too. Write down what variable you used including concentration.

2) Each person will be responsible for independently writing up a report. Due to the less rigorous nature of this lab, you will not be writing a traditional lab report. Furthermore, I have pushed back by one week when the written report is due (now due November 3). The report will be short answers to four questions that resemble the four parts of a lab report or scientific paper (Introduction, Materials and Methods, Results, Discussion).

Evolution In Lab

1) Test cells for the first time, or perform a round of natural selection.