**Bio324/BEGR 424**- **Molecular Biology Resources and Policies - Spring 2019**

**Office:** CSC228

**Phone:** (570) 408-4762

**EMAIL:** terzaghi@wilkes.edu

**WEBPAGE:** http://staffweb.wilkes.edu/william.terzaghi/BIO324.html

**Office hours:** MWF 12-1, TR 2-3 in CSC228 or by appointment

**General Overview**

We will pick a problem in molecularbiology and see where it takes us.

Some suggestions

1. Trying to find another way to remove oxalate
2. Making a probiotic bacterium that removes oxalate
3. Engineering magnetosomes to express novel proteins
4. Studying ncRNA
5. Studying sugar signaling
6. Bioremediation
7. Making plants/algae that bypass Rubisco to fix CO2
8. Making novel biofuels
9. Making vectors for Dr. Harms
10. Something else?

**Course of events**

1. We will start by identifying a good problem
2. We will then decide which plants to test, and what we’ll look for
3. We will then just see where it leads us
4. Each of you will make presentations and write a paper about something to do with the project.

**Grading Proposal:**

1. First presentation:10 points
2. Research presentation: 10 points
3. Final presentation: 15 points
4. Assignments: 5 points each
5. Poster: 10 points
6. Intermediate report 10 points
7. Final report: 30 points

**Alternatives**

1. Paper(s) instead of 1 or two presentations
2. Research proposal instead of a presentation
3. One or two exams?

**SCALE:         4.0 =** 90-100

**3.5 =** 85-89

**3.0 =** 80-84

**2.5 =** 75-79

**2.0 =** 70-74

**1.5 =** 65-69

**1.0 =** 60-64

**0 =** <60