

Biochemistry 462
Spring 2000
Final Exam

Name:

1. (30 points) Compare and contrast the control of the *lac* operon in *e coli* with the *Gal* genes in yeast

2. (20 points) Describe how the expression of the *trp* operon is modulated by levels of tyrophan in the cell.

3. (30 points) Compare and contrast a prokaryotic helix-loop-helix binding domain from a prokaryotic DNA binding protein with a zinc finger binding domain from a eukaryotic DNA binding protein.

4. (20 points) Name several different ways in which the chromosome structure of a gene is changed when a eukaryotic gene is turned on and off.

