pGLO PRELAB QUESTIONS

1. On which of the plates would you expect to find bacteria most like the original non-transformed *E. Coli* colonies? Explain your answer.

2. If there are any genetically transformed bacterial cells, on which plate(s) would they most likely be located? Explain your predictions.

3. Draw a picture of a transformed bacterial cell with the pGLO plasmid inside it. Include the substances that are in the surrounding agar plate.

4. Why do scientists prefer to do transformation on a simple organism like bacteria?

5. What does transformation mean?

6. How is transformation used in agriculture?

7. How is transformation used in medicine?

8. Why do plasmids make good vectors (something that transfers DNA from one place to another)?

9. Describe how a strain of bacteria could develop antibiotic resistance. Why is this a problem?

10. What genes does the pGLO plasmid carry?

11. What other molecule is required for expression of the GFP gene?