RDM Day 6 + 7 Interpretation Questions (to be handed in on DEV Day 2)

1. Interpret your results from Days 6 and 7. You should be sure to talk about:
    a. What you saw on your transformation plates on Day 7?
    b. The transformation efficiency of BL21 cells vs. AG1111 cells?

2. The BL21 cells have been engineered for use in research.

    a. Describe the regulatory system in BL21 cells that allows the experimenter to control the production of "their mRNA" (and therefore "their protein") in these bacteria.

    b. Although we didn't employ the regulatory system described in a) to induce GFP mRNA expression during RDM, in what experiment in GEN **did** we use this system? What protein were we trying to make using this system, and why was it helpful during that experiment?

3. Name a feature of BL21 cells that allows us to produce foreign proteins (like jellyfish GFP) in the bacteria. Why don't naturally occurring bacteria (i.e. "non lab" strains) have this feature?