



# COC Biotechnology Program

## Transformation Post Lab

1. After inoculating the agar plates, the plates are placed upside down before being incubated. Why is this necessary?
2. What effect does the calcium chloride solution have on the cells? (Specifically the cell walls).
3. Why was the number of colonies of transformed bacteria lower on the (+) amp plate than on the (-) amp plate?
4. Was transformation in this lab efficient? Does transformation need to be an efficient process? Explain.
5. Describe at least two ways biologists have used transformation in science.
6. Why would plant and animal cells not be as useful as bacterial cells for transformation of some medicines?