

Name: \_\_\_\_\_ Dr. Reichler's Bio 325 TTh 7:30-9pm Fall 2007 Quiz 9/13

- 1) Why is positive proof often misleading?
  
- 2) How would not following rule three of Strong Inference affect the outcome of your research?
  
- 3) Using rules one and two of Strong Inference answer the following question: What is the function of DNA in a cell?
  
- 4) We looked at an experiment where mice were injected with heat killed fatal bacteria and live non-fatal bacteria. How could you modify this experiment to demonstrate what the transforming material is?
  
- 5) Would double-stranded RNA be as stable as double-stranded DNA?
  
- 6) How is the definition that genes code for proteins related to two other gene definitions?
  
- 7) How could you stop a transposon from moving?
  
- 8) If a muscle cell is responding to epinephrine (a hormone involved in the fight or flight response), and the response will involve a change in gene expression, where will the three steps in signal transduction occur?
  
- 9) What are two reasons for the seemingly complex nature of signal transduction?
  
- 10) What is role of calcium in the two reasons that you gave in #9?