**Lesson Nine: Gene Study of Assigned Bacteria**

Your group will be assigned a bacterial disease to research. Also each member in your group received a specific protein to research dealing with your group disease. If the protein is only studied for other bacterium, it should slightly reduce your confidence in its function for your bacterium.

1. On a separate sheet of paper, NOT in your composition book.
2. Research information on your Bacterial disease:
   * 1. Cause
     2. Treatment
     3. Incidence rate
     4. History
     5. Identification (Gram + or -, Acid-Fast, Endospore, ideal growth medium, etc.)
     6. Describe the bacterium (shape, cluster, staining, etc.)
     7. General information
     8. Classification
3. Research your individual protein and put information on a separate sheet of paper, NOT in your composition book.

* + 1. Protein function must be addressed, include confidence in function and explain.
    2. What is the relationship between any of the proteins?
    3. Identify the gene position/direction
    4. Reference list: create a list of resource sites by name and URL.

Possible resources for information (use several resources):

\* PubMed \* IMG/EDU Gene Finder

\* NIH \* NCBI

\* PDB (Protein Data Bank) \* Kyoto Encyclopedia of Genes and Genomes

\* Microbewiki