Name _____ Per ____ Date _____

National Center for Biotechnology Information (NCBI) Web Hunt Activity

Be sure to follow instructions carefully and to answer all questions asked.

1. Go to the NCBI website www.ncbi.nlm.nih.gov
2. Locate the Search box. Change the search window from Entrez to Gene.
3. In the 2nd box, type in CCR5
4. Hit the Go button.
5. There will be a list of CCR5 genes.
6. Click on the CCR5 gene for humans. (Hint: look for the scientific name)
7. There will now be a page full of information on the CCR5 gene.
8. Answer the following questions using the information.
    a. Which chromosome is the CCR5 gene located on?

    b. What is the location (**maps**) of the CCR5 gene on that chromosome?

    c. What is the gene description?

    d. In your own words summarize the function of the gene in connection to what we have been discussing in class.

9. Scroll down the page to the section labeled **NCBI Reference Sequences**.
10. Click on the link to the **mRNA Sequence**.
11. This will bring up information about the mRNA sequence of the gene.
12. Answer the following questions using the information.
    a. How many base pairs are there in the CCR5 gene?

    b. What are the 1st 10 bases of the CCR5 gene?

13. Hit the Back button on your browser to go to the Gene description page.
14. In the same section, **NCBI Reference Sequences**, click on the link to the **Product.**
15. This will bring up information about the Protein product of the gene.
16. Answer the following questions using the information.
    a. How many amino acids in the CCR5 gene?

    b. What are the first 10 amino acids in the CCR5 gene? (Use the amino acid chart provided by your teacher.)