

Unit 3 C21 Worksheet 8
Cells of the Immune System

1. What WBC are part of the innate immune system?
2. What WBC are part of the adaptive Immune system?
3. What WBC play an important part in both the adaptive and innate immune systems?
4. What is special about vertebrates (animals with a spine)?
5. How do B cells react to foreign antigens? They make what?
6. How do the antigen binding site of antibodies know how to recognize foreign antigen so antibodies may neutralize the foreign antigen?
7. What are the steps taken between a virus entering your body and the production of antibodies to neutralize the virus? (In this example, what is the antigen presenting cell?)
8. What is the function of antigen presenting cells?
9. What are "TCR"? What type of immune cell(s) have TCR?
10. What do helper-T-cells have on their surface? What do these molecules recognize?
11. The antigen presenting cell does not display the entire foreign antigen. What is the part of the foreign antigen displayed on the APC membrane called? What holds the fragment of the foreign antigen?
12. After the H-T-cell is activated by the APC, what will the H-T-cell secrete? What is this molecules function?
13. What is the target cell for HIV? (not in this video but what is the target tissue for the SARS-CoVID19?)
14. Cytotoxic-T-cells have surface receptors with similar spacial recognition for the epitope (like the h-T-cell), however. The cytotoxic TCR may only recognize foreign antigen displayed in MHC-I . What companion molecule allows the c-T-cell to make a lock and key type attachment to the APC?
15. After a c-T-cell docks onto an infected host cell, what will the c-T-cell release to kill the infected host cell?
16. What type of cells have MHC class I?
17. What type of cells have MHC class II?