

LEAGUE OF IMMUNO LEGENDS – ASSESSMENT SHEET

Name: _____ Date: _____

Directions: Match the following vocabulary words.

1. _____ **Pathogen**

2. _____ **Cytotoxic**

3. _____ **Histamine**

4. _____ **Antibody**

5. _____ **Antigen**

6. _____ **Heparin**

7. _____ **Cytokine**

- A.** (also known as immunoglobulins)
Y-shaped proteins that can recognize and bind to antigens, further signaling to others involved in the immune system responses
- B.** Molecules capable of stimulating an immune response, could be proteins on the surfaces of bacteria, fungi and viruses
- C.** Protein involved in cell signaling, especially between immune cells
- D.** Substance or process that results in cell damage or cell death
- E.** Anticoagulant that inhibits blood clotting and promotes the movement of white blood cells in an area
- F.** Chemical that widens blood vessels and increases the flow of blood to injured tissue
- G.** Organisms or infectious agents that invade the body and can cause health issues

8. **Directions:** Name the TWO categories of the immune system, and state ONE difference between the categories.

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Directions: Answer the following questions in 1-2 sentences.

9. What might happen if the immune regulation function (ability to inhibit immune responses) fails?

10. Where might immune memory (ability to remember the antigens previously encountered be important for addressing diseases as a biomedical engineer)?

11. Given the fact that the chemical histamine plays a large role in executing the allergic reaction, how might allergy medicines work?
(Hint: Think about how the cell and cell receptors work)

12. What are some examples of an immunoengineering application?

13. What category of the immune system do vaccines target and why?