**Immune System Word Puzzle**

Across

2. Chemical messengers

5. Cells that circulate in lymph

6. chemical signals

7. Front line, first responding side of the immune system

8. A type of receptor used for recognizing pathogens in invertebrates

10. example of a first line defense immune cell, very phagocytic in nature.

12. Second line, specialized arm of the immune system

13. antibodies bound to antigens increase phagocytosis

14. Part of the innate immune system, most abundant

Down

1. immune cells that circulate in hemolymph

3. pathogen cannot bind & therefore unable to infect host cell

4. infectious agent

9. Maintenance of a constant internal body environment.

11. dilates blood vessels, activates macrophages, etc.

**Answers**

Homeostasis Maintenance of a constant internal body environment.

Innate Front line, first responding side of the immune system

Adaptive Second line, specialized arm of the immune system

Macrophages example of a first line defense immune cell, very phagocytic in nature.

Pathogen infectious agent

Hemocytes immune cells that circulate in hemolymph

Toll A type of receptor used for recognizing pathogens in invertebrates

Cytokines Chemical messengers

Chemokines chemical signals

Histamine dilates blood vessels, activates macrophages, etc.

Neutrophils Part of the innate immune system, most abundant

Lymphocytes Cells that circulate in lymph

Opsonization antibodies bound to antigens increase phagocytosis

Neutralization pathogen cannot bind & therefore unable to infect host cell