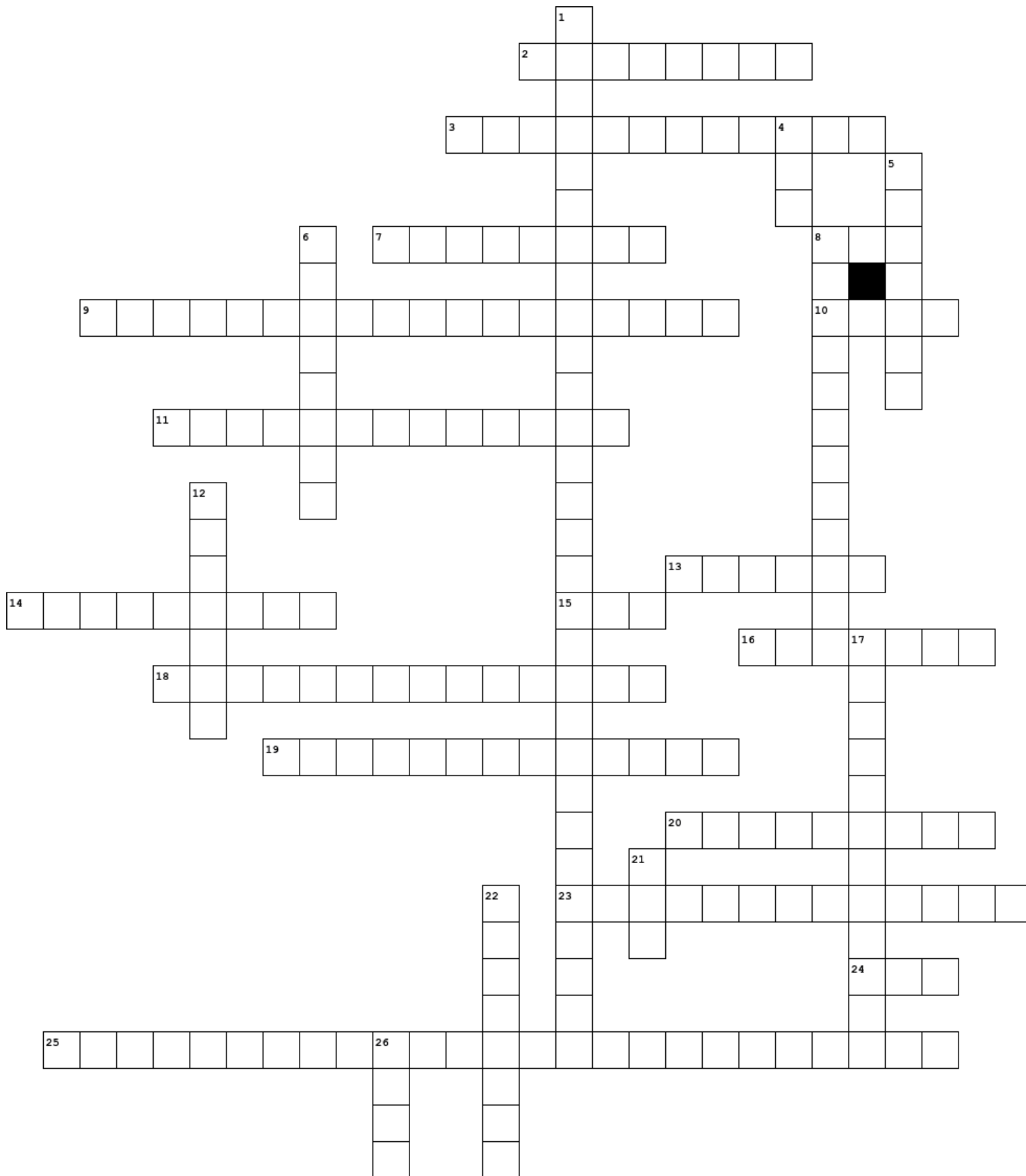


# Immunology



### Across

2. Any organism with the potential to cause an infection
3. Histamine causes
7. Signaling protein that induces a response
8. Immunoglobulin that helps activate B cells. Much of its function is unknown
9. Proteins produced by the liver that are key in signal cascades of the innate immune response
10. Will present antigen fragments to adaptive immune system
11. Really fast replication
13. The type of immunity that has a faster, generic response
14. What are helminths
15. Immunoglobulin in breast milk, protects GI tract of young animals from pathogens
16. Type of adaptive immunity in which B cells will produce antibodies against a specific antigen. Deals with freely circulating pathogens
18. Antibodies bind to binding sites on antigen, making it unable to bind with any body cell
19. Type of adaptive immunity that focuses on the destruction of infected cells by T cells
20. Type of innate immunity that produces a localized response
23. Cause of clumps of antigen, limiting their mobility
24. Immunoglobulin that deals with microbial infection and antigen invasion. Is that first antibody produced in response to antigen presence
25. Signaling proteins produced by macrophages that create a state of inflammation in an infected tissue

### Down

1. Tags all of the cells in the body as 'good' or 'bad' (MHC)
4. Immunoglobulin that focuses on innate immunity, can pass thru the placenta, most plentiful antibody, detoxes, important for recognition of antigen-antibody complexes by neutrophils, macrophages
5. Type of innate immunity that recruits more cells (cytokines)
6. The body's ability to combat deviation from 'normal' through production of an effective and efficient immune response
8. The body's mechanism of maintaining homeostasis, distinguishing harmful from non-harmful organism, and producing an appropriate response
12. Has the ability to cause an immune response
17. Process of tagging a cell or antigen so it can be identified by the immune system
21. Immunoglobulin that deals with helminths and allergy response. Least common
22. The type of immunity that has a slower, more specific response. Causes a systemic whole body response
26. Produced by the body cells. Tags them as 'good'