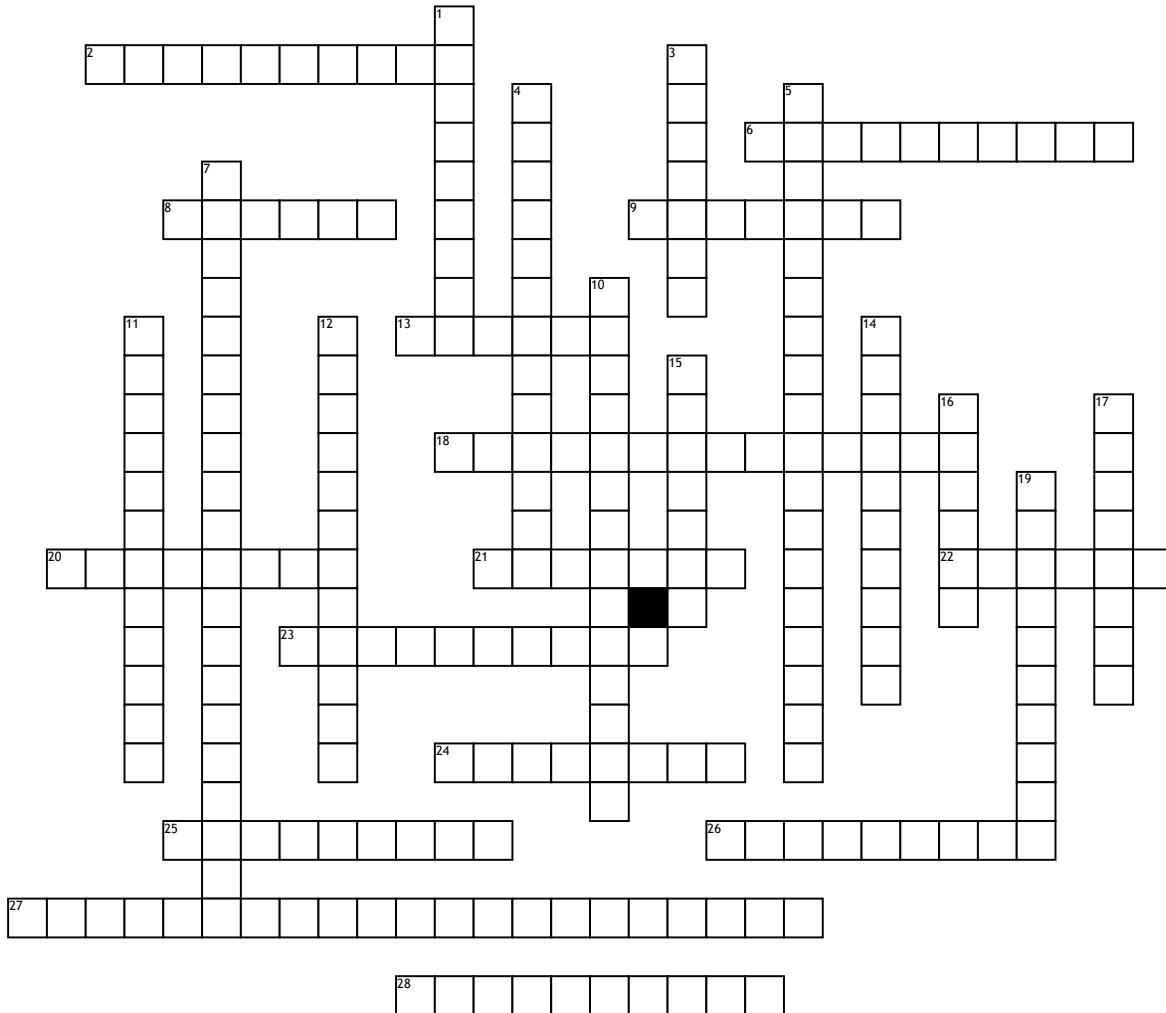


# Immunology



## Across

2. The study of the immune system
6. Are made of protein and can bind to complementary antigens
8. Which cells releases cytokines
9. The type of immunity you get from being given antibodies made by a different organism
13. The type of immunity you get when your immune system makes its own antibodies after being stimulated by an antigen
18. What is the name given to the types of drugs used to treat HIV
20. The ability of an organism to resist a particular infection or toxin by the action of specific antibodies or sensitized white blood cells
21. Are cell surface membrane proteins that can generate an immune response when detected as non-self by the body
22. Which cells are involved in the secondary immune response
23. A term to describe when a B cell divides by mitosis into cloned plasma cells all producing identical antibodies

24. Is released by cytotoxic T cells which destroys targeted cells by creating lesions like pores in their membranes

25. Are micro-organisms that cause disease, bacteria, fungi, protists and viruses
26. Which immune response is faster and stronger if the same antigen enters the body
27. what is a call referred to when a cell like a macrophage sticks non-self antigens on its surface to activate other immune system cells
28. What type of virus is HIV

## Down

1. Which cells kill cells infected with viruses, cancer cells or abnormal cells
3. Which immune response is slower whilst antibodies are made and the person will show symptoms
4. When antibodies bind to two pathogens and they clump together
5. What is the term given to describe when pathogens change their surface antigens and different strains develop

7. The enzyme found in HIV particles responsible for copying RNA into DNA

10. When antibodies bind to pathogens or toxins blocking their active sites and preventing them from doing any more harm
11. What is the term used to describe when the people who have been vaccinated reduce the occurrence of the disease protecting those who have not yet been vaccinated
12. A process where a type of white blood cells engulfs and digests a pathogen
14. A type of phagocyte that carries out phagocytosis
15. Are cell surface membrane proteins that can generate an immune response when detected as non-self by the body
16. Which cells secrete antibodies
17. Which type of ELISA test identifies the presence of antibodies
19. The study of the immune system