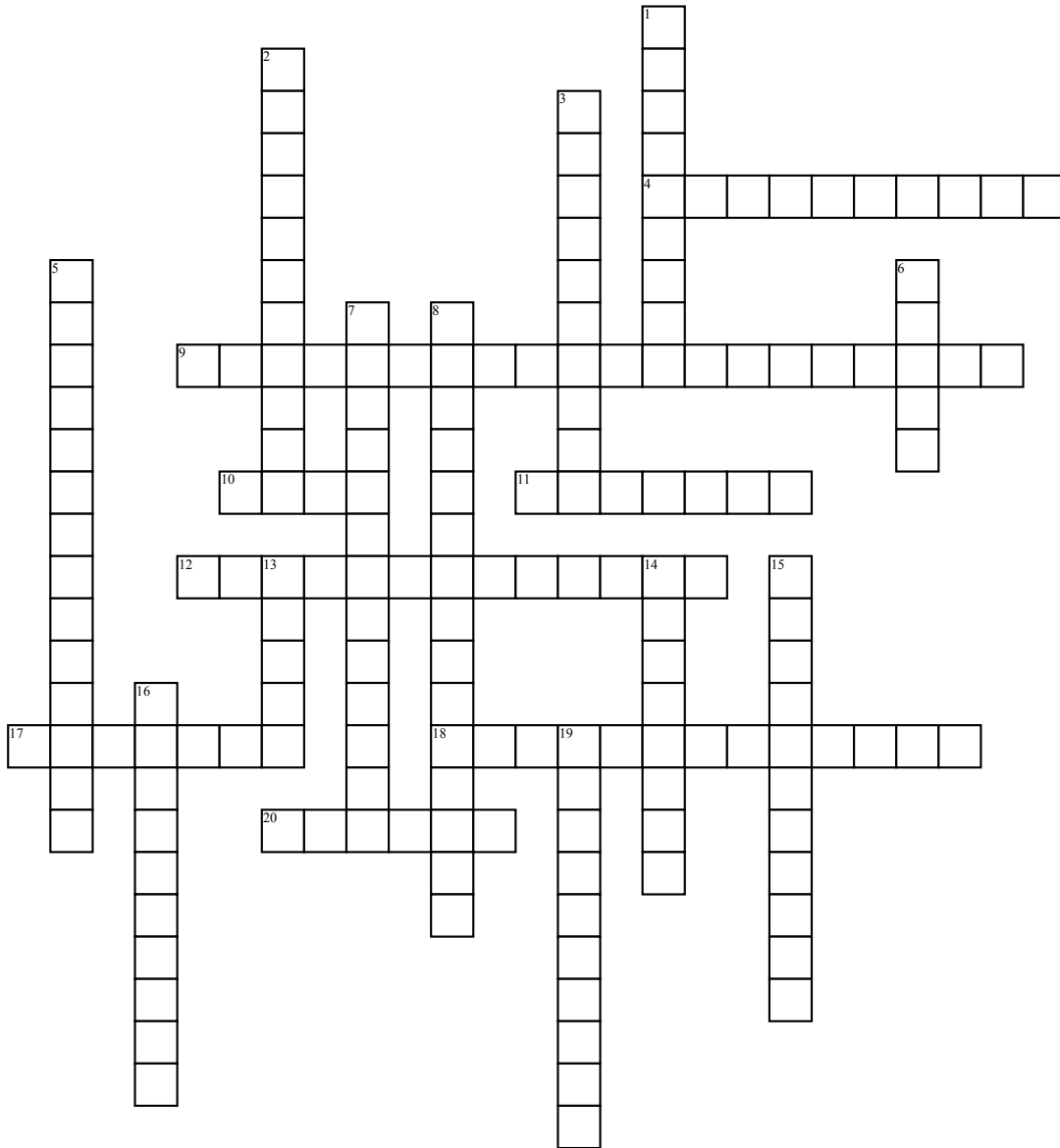


Function of Proteins



Across

4. type of binding where the ligand and protein are complementary in size, shape, and charge
9. one-half of the ligand bound =
10. a compound attached to hemoglobin that captures oxygen for bonding
11. less stable state of hemoglobin
12. type of pathogen the Humoral immune system targets
17. relationship of association rate constant and dissociation rate constant small, typical size of ligand

18. toxic compound that binds at the same site as oxygen
20. molecule that hemoglobin transports between the lungs and tissues

Down

1. stores oxygen
2. region where the ligand binds to the protein
3. reactions between a globular protein and a ligand must be
5. type of change that occurs in an induced fit binding of protein and ligand
6. typical size of ligand

7. when the bind of one ligand affects the binding of another ligand
8. number that reflects type of cooperativity
13. state of hemoglobin that has a lower affinity for oxygen
14. the strength of the binding between a protein and ligand
15. molecules in the cellular immune system that destroy bacteria
16. mutation in this protein causes Sickle-Cell Anemia
19. affinity for oxygen changes as pH changes