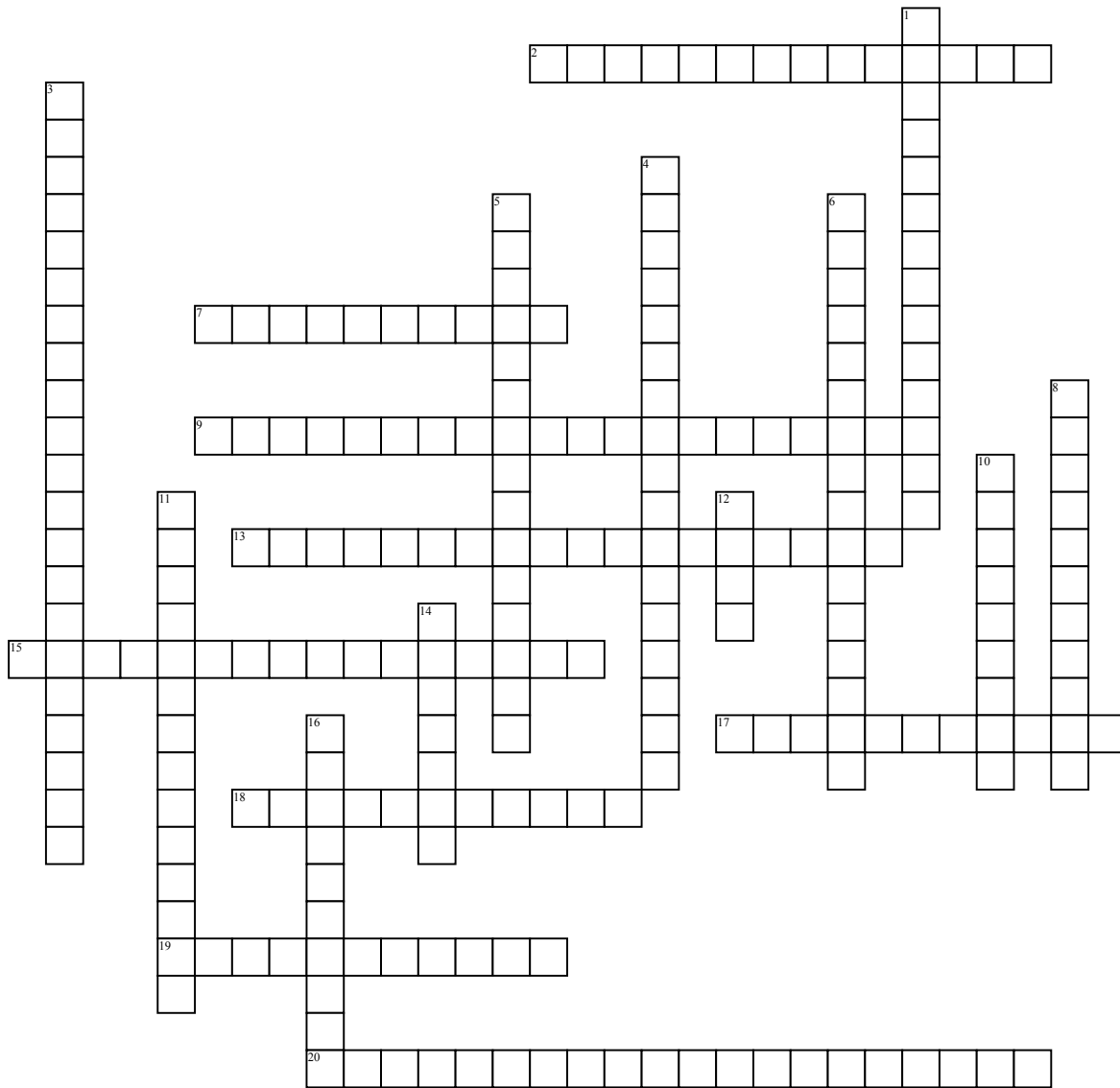


# Transport and Homeostasis



**Across**

- 2. defines a cell by separating it from its environment
- 7. process in which a cell removes unwanted materials
- 9. movement of substances across the plasma membrane with the aid of protein molecules embedded in the membrane
- 13. when a cell is placed into a \_\_\_\_\_ it causes the cell to shrivel
- 15. movement of materials into or out of a cell without the use of ATP
- 17. process in which a cell surrounds and takes in material from its environment
- 18. when particles are diffused and have equal concentration on both sides
- 19. hydrophilic and hydrophobic tails makes the plasma membrane \_\_\_\_\_ to certain water-soluble substances

- 20. allows only some substances to pass through

**Down**

- 1. allows certain molecules to pass based on their size and electric charge
- 3. difference in concentration on opposite sides of a membrane
- 4. when a cell is placed into a \_\_\_\_\_ it causes the cell to swell and possibly burst
- 5. moving material against the concentration gradient that requires energy
- 6. a cell is in a balanced environment when placed in a \_\_\_\_\_
- 8. the regulation of the internal conditions of a cell or organism in spite of changes in the external conditions

- 10. the movement of particles from an area of higher concentration to an area of lower concentration
- 11. does not provide an open pathway through the membrane
- 12. uses energy to move an ion or molecule into or out of a cell
- 14. movement of water molecules into a concentrated solution from a less concentrated solution-either into or out of the cell
- 16. small proteins in the plasma membrane