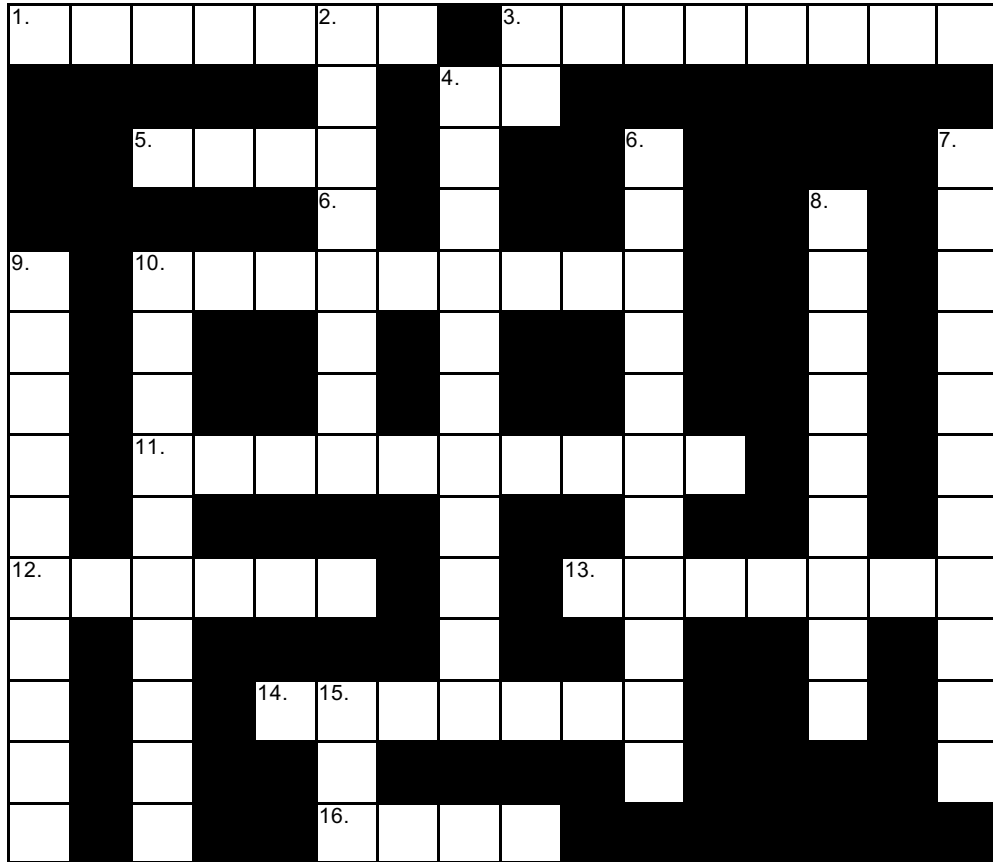


Crossword Puzzle: *Membrane Transport*



ACROSS

1. Movement of water through a semi-permeable membrane toward the hypertonic side.
3. Border of cell; barrier to free movement of molecules in and out of the cell.
4. Nickname for Edward
5. A cell, hypertonic on the inside, may eventually burst - a process called _____ lysis.
10. The opposite of **10 down**
11. The process of moving things out of the cell.
12. This type of transport requires ATP or energy.
13. Both facilitated diffusion and pumps make use of _____ proteins to move things across the membrane.
14. Transport with no energy required. Opposite of **12 across**.
16. This type of carrier protein requires energy to transport molecules across the membrane.

DOWN

2. At the same concentration; neither hypotonic nor hypertonic.
3. Doctor's degree
4. The process of moving things into the cell.
6. The process known as _____ diffusion uses a carrier protein but requires no energy.
7. Diffusion continues until the molecules have spread out to an even concentration throughout a given space. This is called a state of _____.
8. Process where molecules move from an area of higher concentration to an area of lower concentration.
9. A membrane protein that allows *charged molecules* to move through it. (2 words)
10. An area of high concentration is said to be this.
15. The energy molecule of the cell.