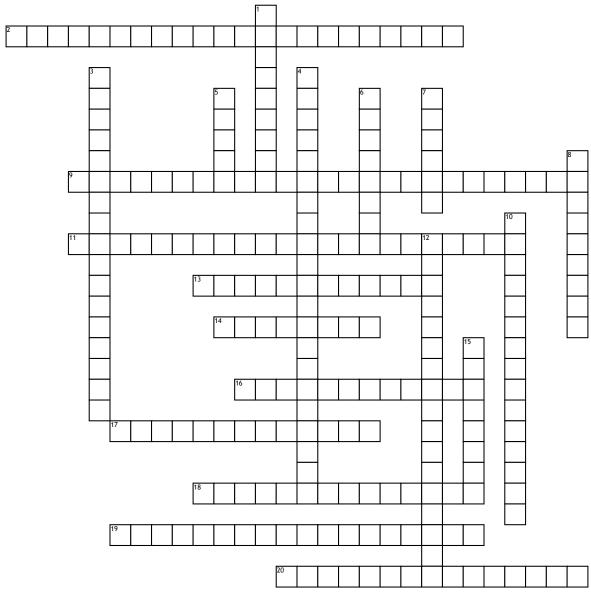
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Cell Communication



Across

- **2.** Signal receptor protein in the plasma membrane that responds to the binding of a signaling molecule by activating a G-Protein
- **9.** process by which a signal on a cell's surface is converted to a specific cellular response is a series of steps.
- 11. a series of different molecules in a pathway are phosphorylated in turn, each molecule adding a phosphate group to the next one in line
- **13.** the binding of the signaling molecule changes the receptor protein in some way, sending a cell response.
- **14.** specialized cell that travels in the body fluids and act on specific target cells in other parts of the body to change their functioning.
- **16.** spiral shape constituting one form of the secondary structure of proteins arising from a specific pattern of hydrogen bonding

- 17. an enzyme that transfers phosphate groups from an ATP to a protein, phosphorylating the protein
- **18.** an enzyme that converts ATP to cAMP in response to a signal
- 19. secreted molecules acting on a neighboring cell
- **20.** a secreted molecule that influences cells near where it is secreted

<u>Down</u>

- 1. target cell's detection of a signaling molecule coming from outside the celltarget cell's detection of a signaling molecule coming from outside the cell
- **3.** an enzyme that dephosphorylates proteins (opposite of protein kinase)
- **4.** a protein pore in cell membranes that opens or closes in response to a ligand allowing or blocking the flow of specific ions
- **5.** 2 receptor polypeptides dissociating closely with each other

- **6.** GTP binding protein that relays signals from a plasma membrane signal receptor (G-Protein linked receptor) to other signal transduction proteins inside the cell.
- **7.** a molecule that specifically binds to another molecule
- 8. cyclic adenosine monophosphate that is a common second messenger signaling molecule in eurkaryotic cells and a regulator of some bacterial operons
- **10.** small, non-protein, water-soluble molecule or ion that relays a signal to a cell's interior response to a signaling molecule bound by a signal receptor protein
- 12. junction where one neuron communicates with another cell across a narrow gap. Neurotransmitter molecules released by the neuron diffuse across the synapse relaying messages to other cells.
- 15. the triggered cellular response