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Neuroscience Crossword Puzzle

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| **Across**  **3.** The level of stimulation required to trigger a neural impulse  **4.** People who have splitting migraines may have an overproduction of this neurotransmitter  **8.** Signals that tell the neuron "FIRE!" (insert happy dance here)  **9.** Period after a neuron has fired an impulse; it pauses to recharge itself so it can fire again  **10.** Part of a neuron that passes messages away from the cell body to other neurons, muscles, or glands  **14.** Type of neurons that control muscles  **15.** Undersupply of Acetylcholine (ACh) marks this brain disease  **16.** Another name for action potential (the message being sent); a brief electrical charge that travels down an axon  **17.** Layer of fatty tissue that insulates the axons of some neurons and helps speed their impulses | **Down**  **1.** Neurons that carry incoming information from the sense receptors (sight, sound, touch, taste, smell) to the central nervous system  **2.** Neurotransmitter that helps control the brain's reward and pleasure center  **5.** Neurotransmitter that triggers muscle contraction  **6.** Excess dopamine receptor activity is linked to this brain disease  **7.** From Legally Blonde: "Exercise gives you \_\_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_\_ make you happy. Happy people just don't shoot their husbands. They just don't." (Hint- They are the same word)  **11.** The sodium-potassium pump moves \_\_\_\_\_\_\_\_ out of the axon  **12.** Provides energy for the neuron to carry out its function  **13.** The finger-like branches on a neuron that receive messages from other cells |