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Properties and Types of Sensory Receptors

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| **Across****1.** An organ or cell specialized to detect chemicals, as in the carotid bodies and taste buds**3.** Conscious perception of a stimulus**13.** A cell or organ specialized to detect a stimulus, such as taste cell, or the eye**15.** The area in which a sensory neuron detects stimuli**16.** A sensory receptor of the muscles, tendons, and joint capsules that detects muscle contractions and joint movements**17.** Refers to the type of stimulus or the sensation it produces**19.** The ability of the brain to identify the site of stimulation**20.** A variable change in membrane voltage produced by a stimulus acting on a receptor cell; generates an action potential if it reaches threshold**21.** An organ of the body that responds to external stimuli by conveying impulses to the sensory nervous system | **Down****2.** Generate a burst of action potentials when first stimulated, then quickly adapt and sharply reduce or stop signaling even if the stimulus continues**4.** The action of converting one form of energy into another**5.** A sensory nerve ending or organ specialized to detect mechanical stimuli such as touch, pressure, stretch, or vibration**6.** A type of receptor that adapts slowly and generate signals steadily**7.** What happens if stimulus is prolonged, the firing of the neuron gets slower over time and we become less sensitive to the stimulus**8.** Pathways followed by sensory signals to their ultimate destinations in the CNS**9.** A sensory cell or sense organ that responds to light falling on it**10.** Theory of sensory interpretation which explains how the brain separates different sensations based on the area of the body that the signal comes from**11.** A neuron specialized to respond to heat or cold, found in the skin and mucous membranes, for example**12.** A nerve ending specialized to detect tissue damage and produce a sensation of pain**14.** How long a stimulus lasts**18.** Refers to whether a light is loud or soft, a light is dim or bright, a pain is mild or excruciating |