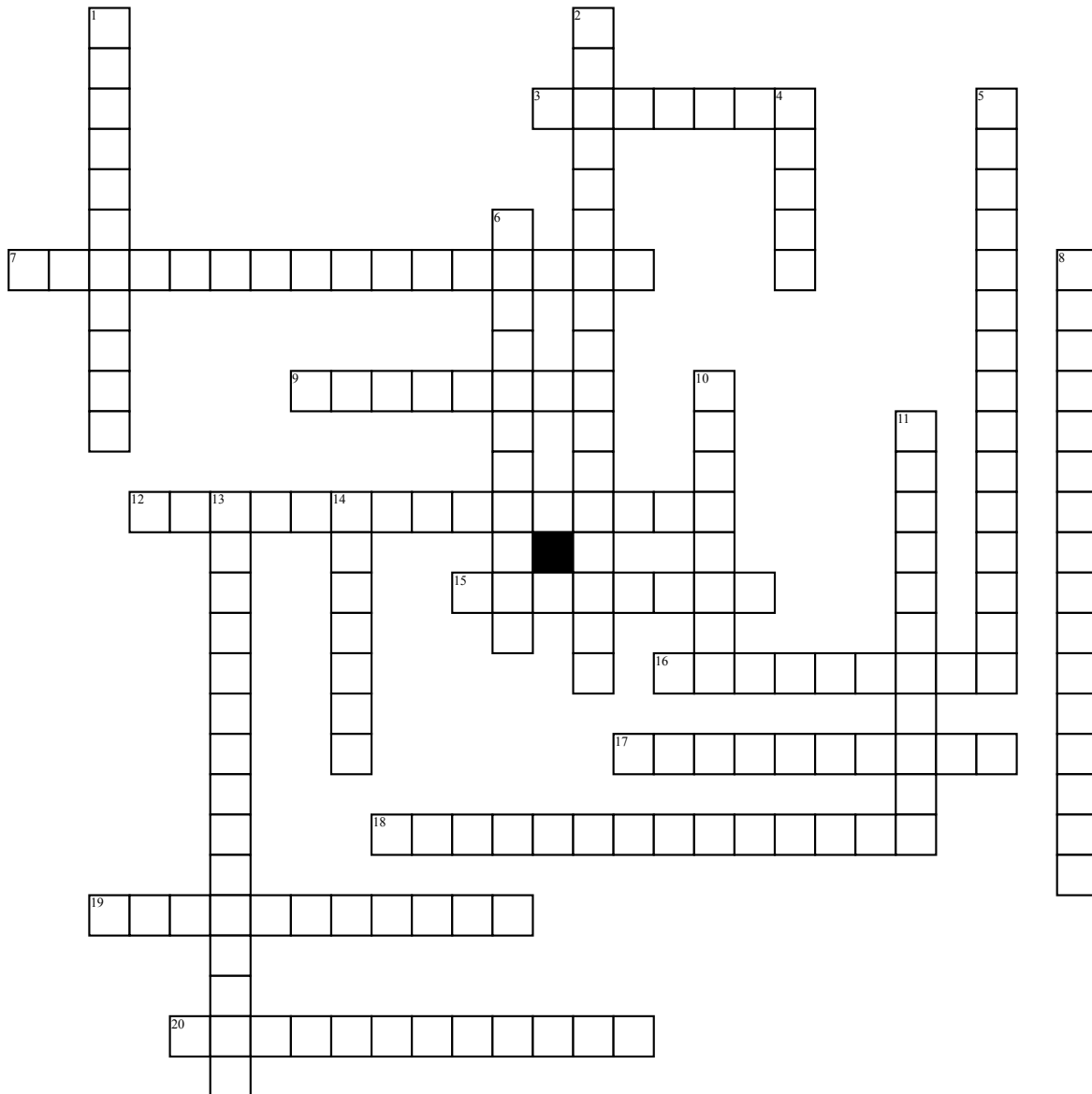


Brain Plasticity and Addiction



Across

- 3.** the central part of the cell body that makes up a typical neuron
- 7.** suggestion that the mind and brain are two levels of description of the same thing
- 9.** The specialized terminals that release special chemicals (neurotransmitters) when the electrical pulse reaches the end of the axon
- 12.** If the receptor protein interaction with the neurotransmitter results in excitation of the dendrite, then a _____ will travel, in the case of a neuron, down the dendrite to the soma.
- 15.** Shortly after the chemical is released, it activates the neuron or an end organ by interacting with a special protein called a _____.
- 16.** a membrane bilayer that separates and protects the intracellular environment from the extracellular environment

- 17.** areas where sensory information from multiple sensory systems is integrated
- 18.** The myelin sheath is interrupted at regularly spaced intervals called _____ which act to regenerate the potential
- 19.** the specialized region where the axon arises (begins)
- 20.** a lobe in the cortex that is located on the other side of the central sulcus

Down

- 1.** the process by which the action potential or electrical impulse is carried down the axon
- 2.** chemical signals within the end terminals
- 4.** grooves that form during developmental periods at specific locations on the brain's surface
- 5.** how organic living matter can produce feelings, thoughts, and emotions

- 6.** The cerebral cortex is divided into two distinct _____ which are connected together by a very large, complex bundle of axons
- 8.** the short period of time after the neuron produces an action potential and is unable to generate another action potential
- 10.** The structural part of a neuron containing the nucleus and other important organelles
- 11.** formed when a large number of axons extend inward from the cortex
- 13.** the nerve impulse that is originated from the axon hillock once a certain electrochemical threshold is reached
- 14.** the assumption that the mind and brain are made up of different kinds of substances