

AP Biology Concept 11: Nervous System: Study Guide

Overall knowledge of AP Biology is necessary to understand the structure and function of the nervous system and the role of the brain in behavior.

- The nervous system is a complex system of cells and fibers that coordinate and control the body's activities.
- The nervous system is divided into the central nervous system (CNS) and the peripheral nervous system (PNS).
- The CNS consists of the brain and spinal cord, while the PNS consists of all other nerves and ganglia.
- The brain is the control center of the nervous system, and it is divided into three main regions: the forebrain, midbrain, and hindbrain.
- The forebrain includes the cerebral cortex, thalamus, and hypothalamus.
- The midbrain is located between the forebrain and hindbrain.
- The hindbrain includes the pons, medulla oblongata, and cerebellum.
- The spinal cord is a long, thin, tube-like structure that runs from the base of the brain down to the lower back.
- The spinal cord is composed of several segments, and it is surrounded by a protective layer called the meninges.
- The spinal cord is responsible for transmitting information between the brain and the rest of the body.

The Action Potential

An action potential is a rapid, temporary change in the membrane potential of a neuron, which is caused by the opening of voltage-gated ion channels. The action potential is a self-propagating signal that travels along the length of the neuron.

- The action potential is initiated by a stimulus that causes a small, temporary change in the membrane potential.
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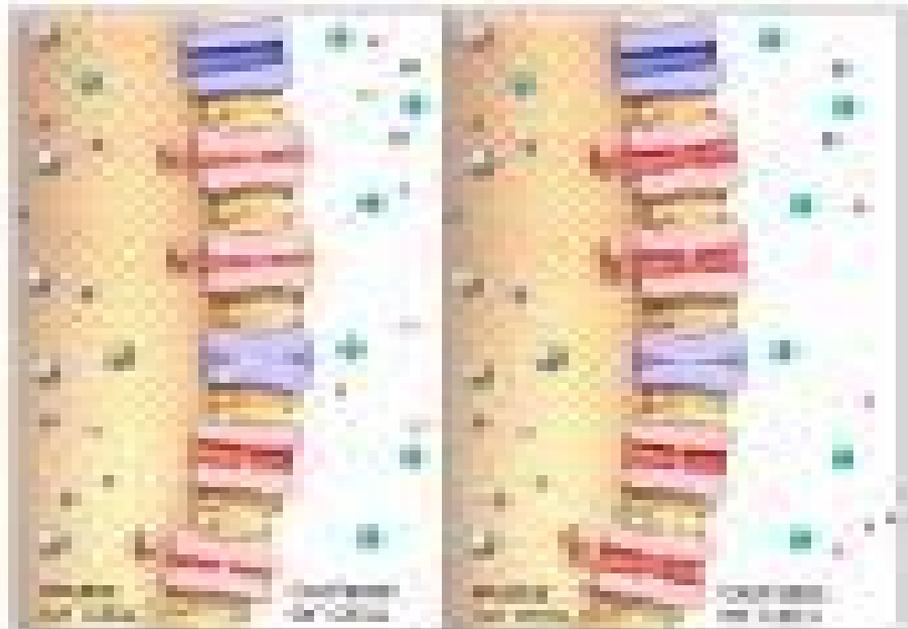
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