

10.1 The Nervous System: An Introduction

The nervous system is a complex network of cells and fibers that coordinate and control the body's activities.

Question	Answer
What is the function of the nervous system?	The nervous system coordinates and controls the body's activities, including movement, sensation, and thought.
What are the two main types of neurons?	Motor neurons and sensory neurons.
What is the difference between a motor neuron and a sensory neuron?	Motor neurons carry signals from the brain to the muscles, while sensory neurons carry signals from the senses to the brain.
What is the function of the brain?	The brain is the central control center of the nervous system, responsible for processing information and coordinating the body's responses.
What is the function of the spinal cord?	The spinal cord is a long, thin, tube-like structure that runs down the back, containing the cell bodies of many neurons.
What is the function of the peripheral nervous system?	The peripheral nervous system consists of all the neurons in the body that are not part of the brain or spinal cord.
What is the function of the autonomic nervous system?	The autonomic nervous system controls the body's internal organs and functions, such as heart rate, digestion, and breathing.
What is the function of the somatic nervous system?	The somatic nervous system controls the body's voluntary movements and sensations.
What is the function of the endocrine system?	The endocrine system is a system of glands that secretes hormones into the bloodstream, which then travel to various parts of the body to regulate functions.
What is the function of the immune system?	The immune system is a system of cells and organs that defend the body against disease-causing organisms.
What is the function of the reproductive system?	The reproductive system is a system of organs and glands that produce and release eggs and sperm, and that support the development of the fetus.
What is the function of the digestive system?	The digestive system is a system of organs and glands that break down food into nutrients that the body can use.
What is the function of the circulatory system?	The circulatory system is a system of blood vessels and the heart that transport blood throughout the body.
What is the function of the respiratory system?	The respiratory system is a system of organs and glands that take in oxygen and release carbon dioxide.
What is the function of the urinary system?	The urinary system is a system of organs and glands that filter waste from the blood and excrete it as urine.
What is the function of the skeletal system?	The skeletal system is a system of bones and cartilage that support the body and protect internal organs.
What is the function of the muscular system?	The muscular system is a system of muscles that contract to produce movement.
What is the function of the integumentary system?	The integumentary system is a system of the skin, hair, and nails that protect the body from the environment.
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