

The Nervous System

AP Biology Worksheet: *Anatomy of Physiology* Unit
 Lab/Activity

Reading Material

The Nervous System

The nervous system is an extremely complex, highly intricate, and very sensitive structure that regulates everything that happens throughout the human body. The main purpose of all the nervous system and its various parts is to carry and send information, and give the body the ability to respond to stimuli. The nervous system is divided into two main parts: the central nervous system (CNS) and the peripheral nervous system (PNS).

Central Nervous System

The central nervous system, or CNS, is the part of the nervous system that is located in the brain and spinal cord. It is the most complex part of the nervous system. The brain is the control center of the body, and is located within the protective skull. Layers of meninges and cerebrospinal fluid also protect the CNS. The spinal cord consists of a long, thin, tube-like structure that runs through the vertebral column. It has an S-shaped curve to the spinal cord, and a part of the spinal cord, called the cauda equina, extends from the lower back into the body.

Peripheral Nervous System

There are all parts of the nervous system that are not the CNS, and they make up the peripheral nervous system (PNS). The PNS is made up of all sensory neurons that are capable of receiving stimuli, and motor neurons that are capable of responding to stimuli. For example, sensory neurons in the eye and ear detect light and sound, and motor neurons are involved in muscles that contract and relax.

The PNS is divided into two main parts: the somatic nervous system, which controls voluntary movements, and the autonomic nervous system, which controls involuntary movements. The somatic nervous system is the part of the nervous system that is responsible for controlling voluntary movements. It is the part of the nervous system that is responsible for controlling the muscles and organs of the body. The autonomic nervous system is the part of the nervous system that is responsible for controlling involuntary movements. It is the part of the nervous system that is responsible for controlling the heart, lungs, and other organs of the body.

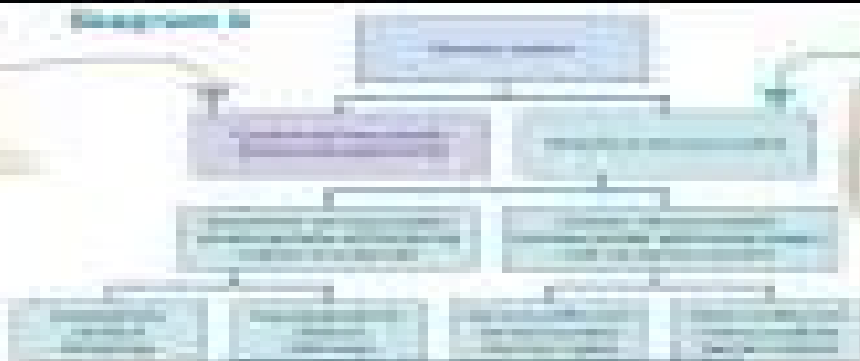


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Diagram 1



The Brain

The brain is the most complex part of the nervous system. It is the control center of the body, and is responsible for all the functions of the body. The brain is made up of billions of neurons, which are the basic units of the nervous system. The brain is divided into two main parts: the cerebrum, which is the part of the brain that is responsible for conscious thought, and the cerebellum, which is the part of the brain that is responsible for unconscious functions. The brain is also divided into four main regions: the cerebrum, the cerebellum, the brainstem, and the limbic system. The cerebrum is the largest part of the brain, and is responsible for all the functions of the body. The cerebellum is the smallest part of the brain, but it is very important for coordination and balance. The brainstem is the part of the brain that connects the cerebrum to the spinal cord. The limbic system is the part of the brain that is responsible for emotions and memory.

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Rumi Michael Leigh



The Nervous System Haspi Medical Anatomy And Physiology 11a:

Anatomy and Physiology : The Nervous System and Our Senses Rumi Michael Leigh, The Nervous System and Our Senses Things You Should Know Questions and Answers explains the anatomy physiology and disorders of the nervous system in a question and answer format The book covers the central and peripheral nervous systems highlighting neurons axons dendrites synapses and neurotransmitters It also describes brain structures such as the cerebrum cerebellum brainstem thalamus hypothalamus and limbic system along with the role of cerebrospinal fluid in protecting the nervous system Key topics include action potentials myelination cranial and spinal nerves sensory receptors and pathways that regulate movement and reflexes The five senses are explained including vision hearing taste smell and touch with attention to conditions such as glaucoma cataracts presbyopia presbycusis anosmia and changes in taste perception The text also examines neurological conditions such as stroke concussion cerebral contusion Alzheimer s disease Parkinson s disease schizophrenia and epilepsy This book will interest students health science learners and general audiences who want to gain knowledge of the nervous system and the senses through a clear question and answer format **Physiology of the Nervous System** Carlos Eyzaguirre,1969 **The Human Nervous System** George Paxinos,2012-12-02 The Human Nervous System is a definitive account of human neuroanatomy with a comprehensive coverage of the brain spinal cord and peripheral nervous system The cytoarchitecture chemoarchitecture connectivity and major functions of neuronal structures are examined by acknowledged authorities in the field such as Alheid Amaral Armstrong Beitz Burke de Olmos Difiglia Garey Gerrits Gibbins Holstege Kaas Martin McKinley Norgren Ohye Paxinos Pearson Pioro Price Saper Sasaki Schoenen Tadork Voogd Webster Zilles and their associates Large clearly designed 8 1 2 x 11 format 35 information packed chapters 500 photomicrographs and diagrams 6 200 bibliographic entries Table of contents for every chapter Exceptionally cross referenced Detailed subject index Substantial original research work Mini atlases of some brain regions **An Illustrated Review of the Nervous System** Glenn F. Bastian,1993 This series of brief inexpensive workbooks supplements texts in A P especially Elaine Marieb s Human Anatomy and Physiology Fifth Edition and provides a quick and efficient study review for nursing and allied health students This workbook reviews the nervous system *Physiology of the Nervous System* Jean Pierre Morat,1906 *Anatomy and Physiology of the Nervous System* Sedgwick Mather,2000

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