

# Free ebook Cytokines and the cns [PDF]

the central nervous system cns is a division of the nervous system whose function is to analyze and integrate various intra and extrapersonal information as well as to generate a coordinated response to these stimuli put simply the cns is the supreme command center of the body your central nervous system cns is part of your nervous system it consists of your brain and spinal cord your cns collects information from your sensory nerves to process and respond to them it regulates everything your body does the central nervous system cns is the part of the nervous system consisting of the brain and spinal cord the retina and optic nerve and the olfactory nerve and epithelia the cns is so named because the brain integrates the received information and coordinates and influences the activity of all parts of the bodies of bilaterally symmetric the central nervous system controls thought movement and emotion as well as breathing heart rate hormones and body temperature the central nervous system cns is referred to as the central nervous system cns consists of the brain and the spinal cord it acts as the body s control center processing sensory information and directing responses the cns coordinates voluntary activities like movement and involuntary ones such as breathing and heartbeat the central nervous system cns consists of the brain and spinal cord the cns is the body and mind s control center like a central communication hub it receives processes and responds to all types of sensory input the cns also controls voluntary muscle movements and motor functions the central nervous system cns is comprised of the brain and spinal cord the three broad functions of the cns are to take in sensory information process information and send out motor signals the cns receives sensory information from the nervous system and controls the body s responses the central nervous system cns consists of the brain and spinal cord this body system is responsible for integrating and coordinating the activities of the entire body through these physical structures thought emotion and sensation are experienced and body movements are coordinated neuroanatomy central nervous system cns parker e ludwig vamsi reddy matthew varacallo author information and affiliations last update october 10 2022 go to introduction the nervous system is a complex network that enables an organism to interact with its surroundings the central nervous system is the brain and spinal cord while the peripheral nervous system consists of everything else the central nervous system s responsibilities include receiving processing and responding to sensory information see image peripheral and central nervous systems the nervous system can be separated into divisions on the basis of anatomy and physiology the anatomical divisions are the central nervous system cns and peripheral nervous system pns the cns is composed of the brain and spinal cord the nervous system is comprised of two major parts or subdivisions the central nervous system cns and the peripheral nervous system pns the cns includes the brain and spinal cord the brain is the body s control center the cns has various centers located within it that carry out the sensory motor and integration of data the central nervous system cns is the part of the nervous system that consists of the brain and spinal cord the cns controls all voluntary muscle movement and sensations in the body the peripheral nervous system pns is the part of the nervous system that transmits signals from the central nervous system to the rest of the body and vice the brain and the spinal cord are the central nervous system and they represent the main organs of the nervous system the spinal cord is a single structure whereas the adult brain is described in terms of four major regions the cerebrum the diencephalon the brain stem and the cerebellum neuroglia in the cns include astrocytes microglial cells ependymal cells and oligodendrocytes in the human brain it is estimated that the total number of glia roughly equals the number of neurons although the proportions vary in different brain areas cns english meaning cambridge dictionary meaning of cns in

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