

CHAPTER 7

NERVOUS SYSTEM

**NERVOUS SYSTEM – command center of the body; it regulates function of the organs composing of the different systems in the body. Central System of the body.*

What is the nervous system?

The nervous system consists of two divisions: the **central nervous system** containing the brain and spinal cord, and the **peripheral nervous system** which is a network of nerves and neural tissues branching out throughout the body.



*** CNS**

- Brain, protected by the skull/cranium
- Spinal Cord, protected by the spinal column/vertebral column

FUNCTION OF THE NERVOUS SYSTEM has something to do with **responding to stimuli so we could do specific function as we feel the stimuli. (like a closed circuit)*

***CELLS OF THE NERVOUS SYSTEM –**

Neurons, nerve cells (one of the biggest cells in the body)



Neurons are the nerve cells, the structural and functional units of the nervous system.

Impulses - its internal and external environments. There are various types of neurons.

Neuroglia (nur ROH glee ah).

TYPES OF NEURONS

1. MOTOR NEURONS

The motor neurons usually have one axon and several dendrites. The axon is covered with an insulating fatty layer called a myelin sheath. Dendrites are short and unmyelinated.



Motor neurons cause **muscle contractions** and **control secretions** from glands and organs... controlling body functions.

2. SENSORY NEURONS

Sensory neurons do not have true dendrites. They are attached to sensory receptors and transmit impulses to the central nervous system, which then stimulate the interneurons, and then motor neurons.



Interneurons are located entirely within the central nervous system. They intercept the impulses from the sensory neurons and transmit the signals to the motor neurons.

Ex. Hot environment > Nerve receptors will sense the warmth/heat before the brain > Interneurons(bridge) will activate response > Motor Neurons (will drink water, turn A/C on, use a fan)

HOW DO DENDRITES COMMUNICATE???

- **Synapses** (Space Connections)
- The number of synapses influences transmission(information)

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