

# Nervous System

## Big Picture

The nervous system controls mental and physical activities, whether they are voluntary or involuntary. The nervous system sends electrical signals around the body, allowing the body to react to its surroundings quickly. Without the nervous system, we would not be able to function normally. The ability of the nervous system to monitor and respond to the surrounding depends on the transmission of signals from one neuron to the next and within the neuron itself.

## Key Terms

**Nervous System:** The organ system that carries electrical messages throughout the body.

**Central Nervous System (CNS):** Includes the brain and spinal cord.

**Peripheral Nervous System (PNS):** Nerves that connect all parts of the body to the brain.

**Nerve:** A cable-like bundles of axons that make up the peripheral nervous system.

**Autonomic Nervous System (ANS):** Controls all involuntary activities not under conscious control like breathing.

**Somatic Nervous System (SNS):** Controls voluntary activities that are under conscious control.

**Neuron:** The structural and functional units of the nervous system. Consists of three parts:

**Cell Body:** Contains the nucleus and other cell organelles.

**Dendrite:** Extends from the cell body and receives nerve impulses from other neurons.

**Axon:** An extension of the cell body that transmits nerve impulses to other cells.

**Myelin Sheath:** Outer layer of the axon that serves as an insulator for the axon. There are gaps on the myelin sheath that allow the electrical signal to move along the axon quickly.

**Glial Cells:** Support neurons and produce myelin

**Nerve Impulse:** Electrical signal transmitted by a neuron.

**Synapse:** Where an axon terminal meets another neuron cell.

**Neurotransmitter:** Chemical that transmits signals across synapses from the axon terminal of one neuron to the dendrites of the next neuron.

## Parts of the Nervous System

The nervous system is divided into two parts:

1. **Central nervous system (CNS):** The brain and spinal cord.
  - The spinal cord connects the brain to the rest of the body, moving from the brain stem down the back to the pelvis.
2. **Peripheral nervous system(PNS):** All the neurons and sensory organs in the body not included in the central nervous system.
  - The PNS is connected to the CNS by nerves. This nervous system is divided into the sensory(sends information to the central nervous system) and motor (sends information to muscle and glands/systems).

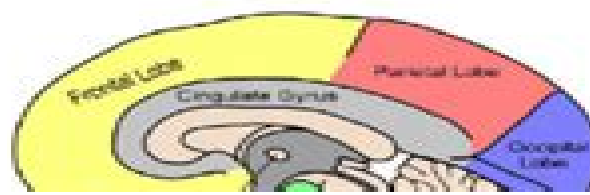
The motor system can be divided into:

- **Autonomic nervous system(ANS):** Controls all involuntary actions(breathing, heart beating, digestion, etc). This nervous system is divided into two divisions: the sympathetic division puts the body in "fight or flight mode," and the parasympathetic division controls non-emergency bodily functions such as digestion.

## Parts of the Brain

The brain has three major parts:

1. **Cerebrum:** the main part of the brain, divided into 4 lobes, controlling conscious functions:
  - Frontal lobe: speech, reasoning, touch
  - Parietal lobe: speech, taste, reading
  - Temporal lobe: hearing, smell
  - Occipital lobe: vision
2. **Cerebellum:** Controls body movement
3. **Brain stem:** The lowest part of the brain that connects the brain to the spinal cord, sending nerve impulses between the two. It also controls unconscious functions, including the heart rate and breathing.



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