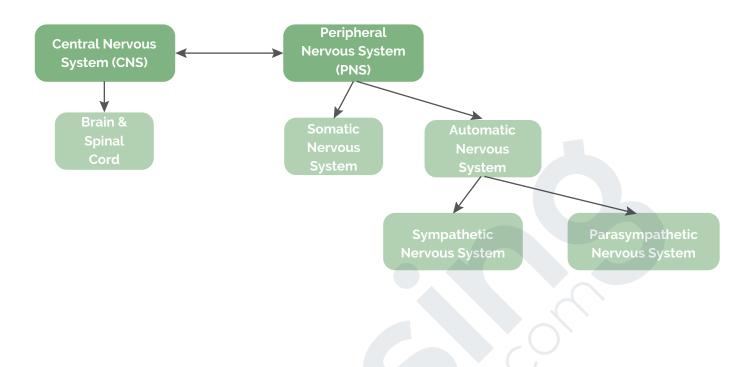
NERVOUS SYSTEM ANATOMY



Nervous System Divisions

Central Nervous System (CNS)

Contains brain and spinal cord

Peripheral Nervous System (PNS)

- Somatic Nervous System
 - o Skeletal muscle contraction
- Autonomic Nervous System
 - o Internal organs
 - o Sympathetic Nervous System Fight or Flight
 - Parasympathetic Nervous System Rest & Digest



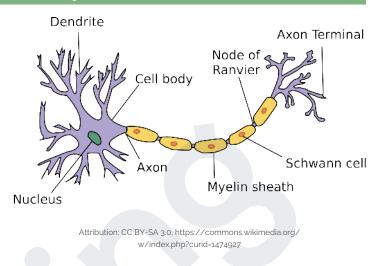
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NERVOUS SYSTEM ANATOMY

Neuron Anatomy

Neuron

- Cannot divide
- Basic unit of the nervous system
 - o Dendrite
 - Receives action potential from other neurons
 - Sends action potential to cell body
 - o Cell body
 - Location of nucleus and metabolic activity
 - o Axon
 - Long fiber that terminates at the axon terminal
 - o Axon terminal
 - Transmits action potential to receiving cell via neurotransmitters
 - o Glial Cell
 - More numerous
 - Have the ability to divide



Glial Cells

Oligodendrocyte

• Produces myelin sheaths in the CNS

Microgliocytes

Destroys bacteria and damaged tissue

Astrocytes

• Attaches to neuron and capillaries (creates the blood brain barrier)

Ependymal cells

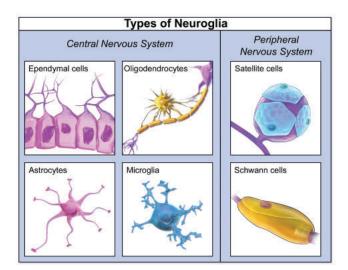
Creates Cerebrospinal Fluid (CSF)

Satellite Cells

• Cover neural cell bodies in sensory, sympathetic, and parasympathetic ganglia and regulates the environment

Schwann Cells

• Creates myelin (insulator) and increases speed of action potential)



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