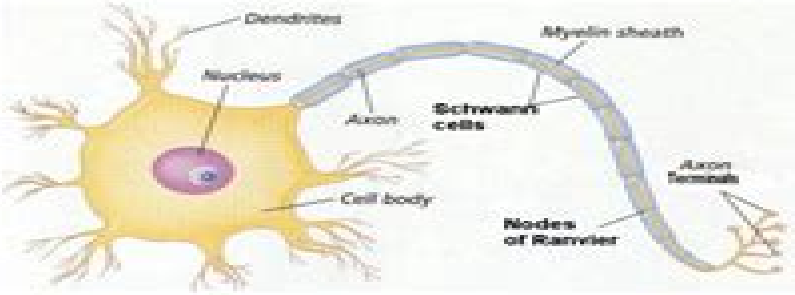
Basic Cells of the Nervous System

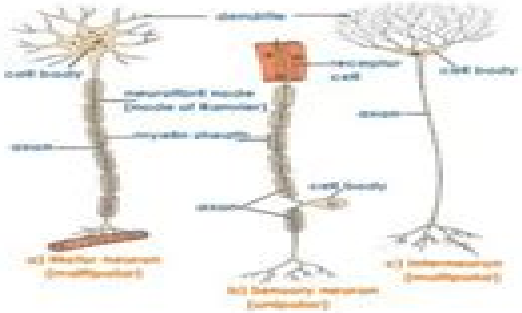


Neuron

- Basic functional cell of nervous system
- Transmits impulses (up to 250 mph)

Parts of a Neuron

- **Dendrite** – receive stimulus and carries it impulses toward the cell body
- **Cell Body** with nucleus – nucleus & most of cytoplasm
- **Axon** – fiber which carries impulses away from cell body
- **Schwann Cells**- cells which produce myelin or fat layer in the Peripheral Nervous System
- **Myelin sheath** – dense lipid layer which insulates the axon – makes the axon look gray
- **Node of Ranvier** – gaps or nodes in the myelin sheath
- Impulses travel **from dendrite to cell body to axon**



Three types of Neurons

- **Sensory neurons** – bring messages to CNS
- **Motor neurons** - carry messages from CNS
- **Interneurons** – between sensory & motor neurons in the CNS

Impulses

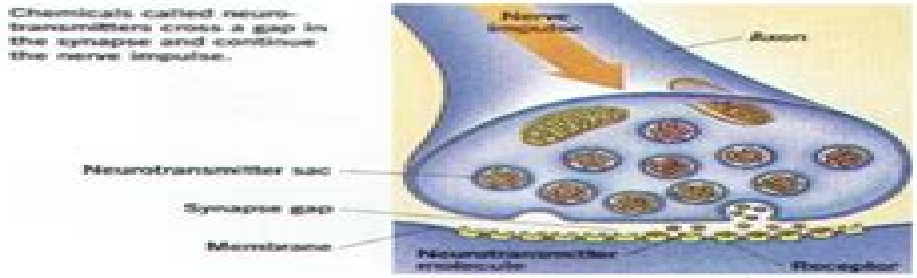
- A **stimulus** is a change in the environment with sufficient strength to initiate a response.
- **Excitability** is the ability of a neuron to respond to the stimulus and convert it into a nerve impulse
- **All of Nothing Rule** – The stimulus is either strong enough to start and impulse or nothing happens
- Impulses are always the **same strength along a given neuron** and they are **self-propagation** – once it starts it continues to the end of the neuron in only one direction- **from dendrite to cell body to axon**
- The nerve impulse causes a movement of ions across the cell membrane of the nerve cell.

Synapse

- **Synapse** - small gap or space between the axon of one neuron and the dendrite of another - **the neurons do not actually tough at the synapse**
- It is junction between neurons which uses neurotransmitters to start the impulse in the second neuron or an effector (muscle or gland)
- The synapse insures one-way transmission of impulses

Neurotransmitters

Neurotransmitters – Chemicals in the junction which allow impulses to be started in the second neuron



Nervous System Physiology Study Guide

Chao Zhang

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