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

<u>Impulses</u>

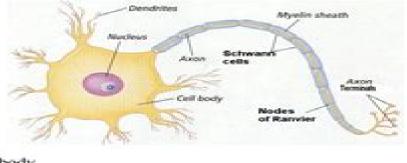
- A stimulus is a change in the environment with sufficient strength to initiate a response.
- Excitability is the ability of a neuron to respond to the stimulus and convert it into a nerve impulse.
- All of Nothing Rule The stimulus is either strong enough to start and impulse or nothing happens
- Impulses 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.

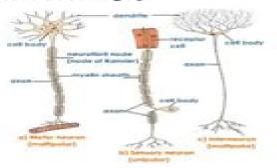
Synapse

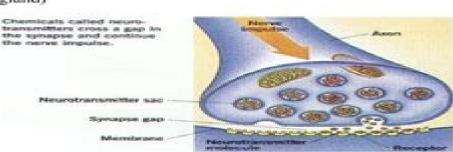
- Synapse small gap or space between the axon of one neuron and the dendrite of another the neurons do not actually tough at the synapse
- It is junction between neurons which uses neurotransmitters to start the impulse in the second neuron or an effector (muscle or gland)
- The synapse insures one-way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

Neurotransmitters

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







Study Guide For Central Nervous System Answers

Guillaume Favre

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