



Nervous system

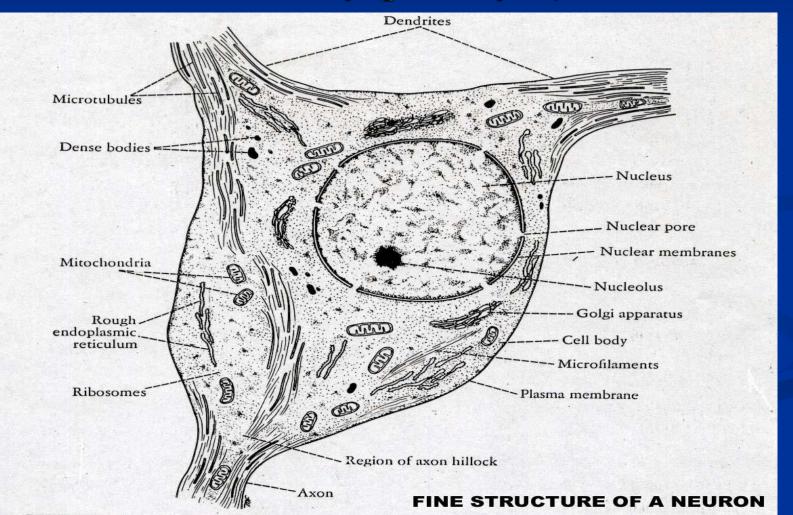
The nervous system is responsible for communication between different regions of the body, it is divided into:

CNS (central nervous system) = brain + spinal cord

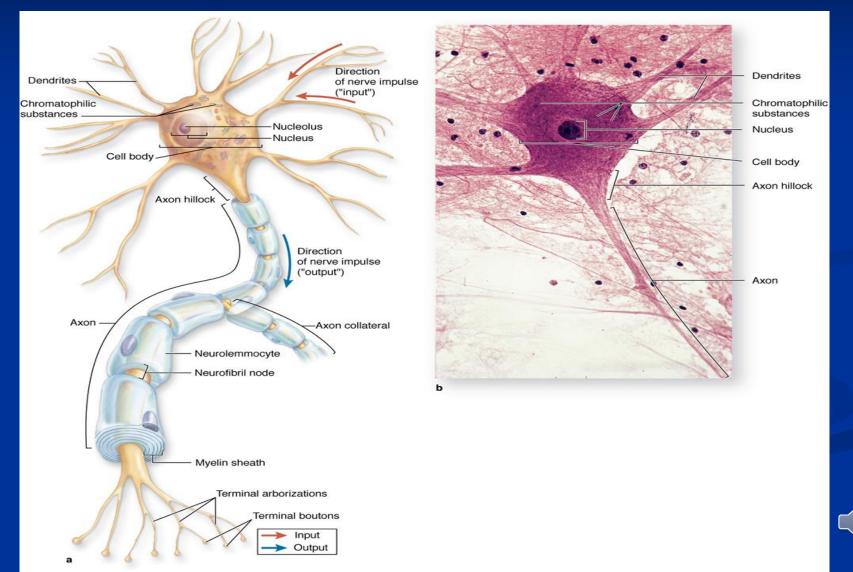
PNS (peripheral nervous system) =nerves running between the CNS & other tissues. Nervous tissue consists of two major cell types: neurons and neuroglia.



The Neuron: Is the main functional unit of the nervous system, it consists of : 1. Cell body (perikaryon)

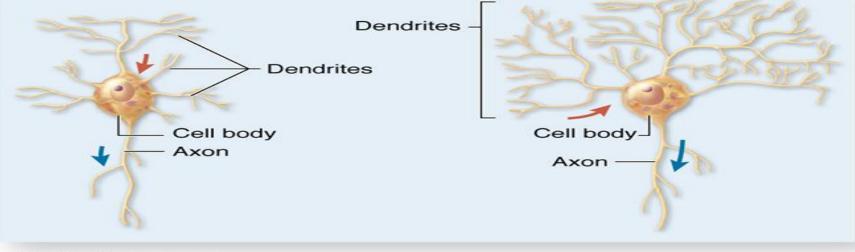


2. Axon 3. Dendrites 4. Terminal button

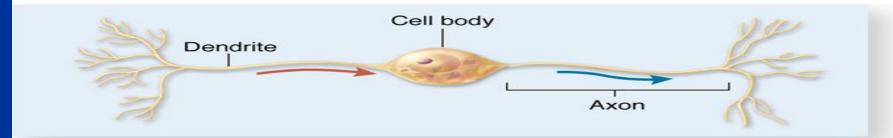


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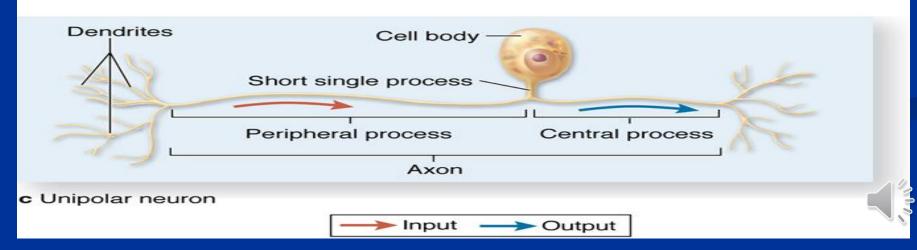
Types of the Neurons: Multipolar (motor) neurons : have large cell body + large axon + many dendritic processes. Unipolar (pseudounipolar) (sensory) : cell body + one large process divided into 2 branches, one is axon & other is dendrite. **Bipolar :** simple cells provide local communications within the CNS having 2 main processes of equal size one axon & other dendrite.



a Multipolar neurons



b Bipolar neuron

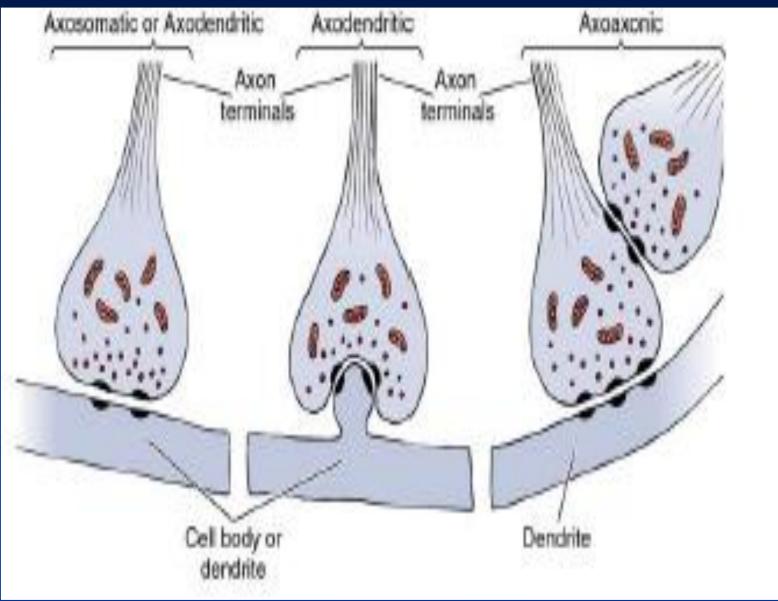


Neurons are of 3 types:

Sensory (afferent) somatic (pptt) visceral (p)
Motor (efferent) somatic & visceral
Interneuron



Synapses:



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