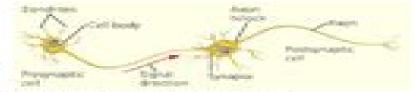
#### Chapter 37 - Neurons, Synapses, and Signaling



- Neurons are nerve cells that transfer information within the body.
- The brain is the organ of the central nervous system where information is processed and integrated.
- Ganglion is a cluster, functional group, of nerve cell bodies in a controlled nervous system.

#### 17.3 Neuron structure and organization reflect function in information transfer

- Most of a neuron's organism, including its nucleus, are located in the cell body.
- A typical neuron has numerous highly branches extensions called dendrites.
- A neuron also has a single ason, an extension that transmits signals to other cells.
- The cone-shaped base of an axon, called the axon hillock, is typically where signals that travel down the axon are generated.
- Each branched end of an axon transmits information to another cell at a junction called a synapse.
- The part of each axon branch that forms this specialized junction is a synaptic terminal.
- At most synapses, chemical messengers called neurotransmitters pass information from the transmitting neuron to the receiving cell. The transmitting neuron is the presynaptic cell and the neuron, muscle, or gland cell that receives the signal as the postsynaptic cell.
- The neurons of vertebrates and meet invertebrates require supporting refix called glia, or glial cells. Glia neurons, insulate the axons of neurons, and regulate the extracellular fluids surrounding the neurons.
- Sensory neurons transmit information to processing centers in the brain or ganglia. Some sensors detect
  external stimuli such as light, sound, touch, or smell, whereas others monitor internal conditions such as blood
  directure or muscle tonsions.
- Neurons in the brain or ganglia integrate, analyze and interpret, the sensory input, taking into account the immediate context and the animal's experience. The vast majority of neurons in the brain are interneurons, which form the local circuits connecting neurons in the brain.
- Neurons that extend out of the processing centers trigger output in the form of muscle or gland activity.
   Motor neurons transmit signals to muscle cells, causing them to contract.
- In many animals, the neurons that carry out integration are organized in a central nervous system CNS, which includes the brain and a longitudinal nerve cont.
- The neurons that carry information into and out of the CNS constitute the peripheral nervous system PNS.
- When bonded together such neurons form nerves.

#### 37.2 ton pumps and ion channels establish the resting potential of a neuron

- In a neuron, loss are unequally distributed between the coll interior and the surrounding extracefular fluid. As a result, the inside of a cell is negatively charged relative to the outside. Because the attraction of opposite charges across the plasma membrane is a source of potential energy, this charge difference, or voltage, is called the membrane potential.
- For a resting neuron, one that is not sending a signal, the membrane potential is called the resting potential, and is typically between 40 and 40 mit, millivolts.
- For most neurons, the concentration of K' is higher inside the cell, while the concentration of his' is higher outside. These his' and K' gradients are maintained by the sedium potassium pump. This ion pump uses the energy of ATP hydrolysis to actively transport his' out of the cell and K' into the cell.
- Non-channels are points formed by clusters of specialized proteins that spen the membrane, ion channels allow ions to diffuse back and forth across the membrane. As ions diffuse through channels, they carry with them
  - units of electrical charge. Any resulting not movement of positive or negative charge will generate a montenane potential or voltage across the membrane.
- The concentration gradients of K' and Na' across the plasma membrane represent a chemical form of potential energy. The ion channels that convert this chemical potential energy to electrical

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