



- 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 centralized nervous system.

37.1 Neuron structure and organization reflect function in information transfer

- Most of a neuron's organelles, including its nucleus, are located in the cell body.
- A typical neuron has numerous highly branched extensions called **dendrites**.
- A neuron also has a single **axon**, 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 is the **postsynaptic cell**.
- The neurons of vertebrates and most invertebrates require supporting cells called **glia**, or **glial cells**. Glia nourish 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 pressure or muscle tensions.
- 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 cord.
- The neurons that carry information into and out of the CNS constitute the **peripheral nervous system (PNS)**.
- When bundled together, such neurons form **nerves**.

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

- In a neuron, ions are unequally distributed between the cell interior and the surrounding extracellular 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 -60 and -80 mV, millivolts.
- For most neurons, the concentration of K^+ is higher inside the cell, while the concentration of Na^+ is higher outside. These Na^+ and K^+ gradients are maintained by the **sodium-potassium pump**. This ion pump uses the energy of ATP hydrolysis to actively transport Na^+ out of the cell and K^+ into the cell.
- Ion channels** are pores formed by clusters of specialized proteins that span 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 net movement of positive or negative charge will generate a membrane 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

Ion	Intracellular Concentration (mM)	Extracellular Concentration (mM)
Potassium (K^+)	140	5
Sodium (Na^+)	12	140
Calcium (Ca^{2+})	10	1.00
Chloride (Cl^-)	4	100

Source: Alberts et al. (2004). Life: The Science of Biology (6th ed.). Sunderland, MA: Sinauer Associates, Inc.

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