

Chapter 3 w/lecture

3.1 Learning Outcomes

Explain the function of neurons

Outline the components of the neuron

Differentiate the three major types of neurons by their function

Neurons: cells in the nervous system that communicate with each other to perform information-processing tasks.

- composed of cell body, dendrites, and axon

- Cell body (AKA soma): coordinates the information-processing tasks and keeps the cell alive. Surrounded by porous membrane
 - Function: protein synthesis, energy production, and metabolism take place here
 - Contains the nucleus: houses chromosomes that contain DNA
- Dendrites: receive information from other neurons and relay it to the cell body
- Axon: carries information to other neurons, muscles, or glands
- Myelin sheath: insulating layer of fatty material
 - Composed of glial cells: support cells found in the nervous system
 - They digest parts of dead neurons, provide physical and nutritional support for neurons, form myelin to help the axon carry information more efficiently.
- Demyelinating diseases: cause myelin sheath to deteriorate, slowing the transmission of information from one neuron to another.
 - Causes loss of feeling in the limbs, partial blindness, cognitive difficulties
- Synapse: the junction or region between the axon of one neuron and the dendrites or cell body of another.

1. Sensory neurons:

Lecture Chapter 3

R Barnett



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