

Neuron Structure:What are the essential structures that make up a neuron?

Why?

Cells are specialized for different functions in multicellular organisms. In animals, one unique kind of cell helps organisms survive by collecting information and sending messages throughout the body. The shapes and features of neurons, which are the primary cells in the nervous system, enable animals to experience all of the five senses; find food, mates, and shelter; and to survive in their diverse environments.

Model 1 – Parts of a Neuron



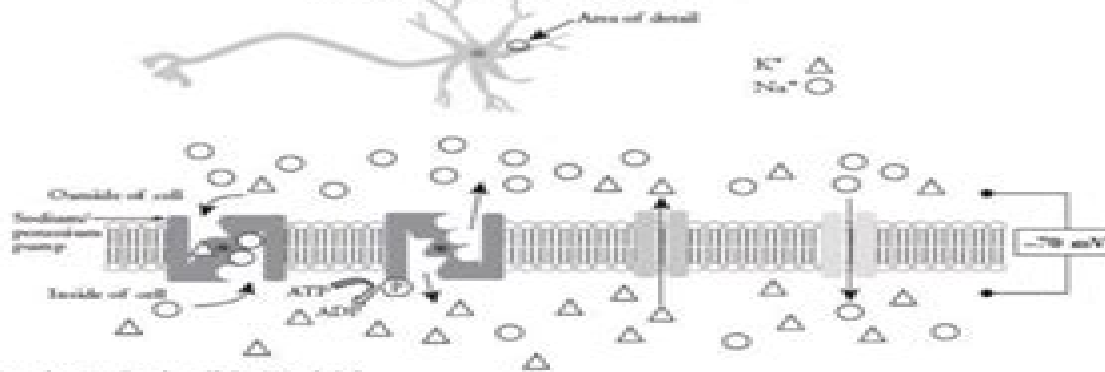
1. Model 1 is an illustration of two neurons. Label one of the neurons in the diagram with the following structures:

- Cell body or soma
- Cell nucleus
- Dendrites
- Axon
- Synapse

2. Which structure(s) on the neuron in Model 1 would receive a signal from either a sensory cell (taste bud, touch receptor, retinal cell) or from another neuron?

3. Draw an arrow through the two cells in Model 1 to show the path of a nerve impulse if a message was being sent through the two neurons.

Model 2 – Membrane Potential



4. Describe the cellular structure shown in detail in Model 2.

5. Identify each of these symbols in Model 2.



6. Consider Model 2.

- a. Which side of the membrane has more sodium ions when the neuron is at rest?
- b. Briefly explain why sodium ions cannot cross the membrane without the use of a protein channel.
- c. Which direction should sodium ions flow naturally if a channel is provided?

Neuron Function Pogil Answers

Harvey F. Lodish



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