

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

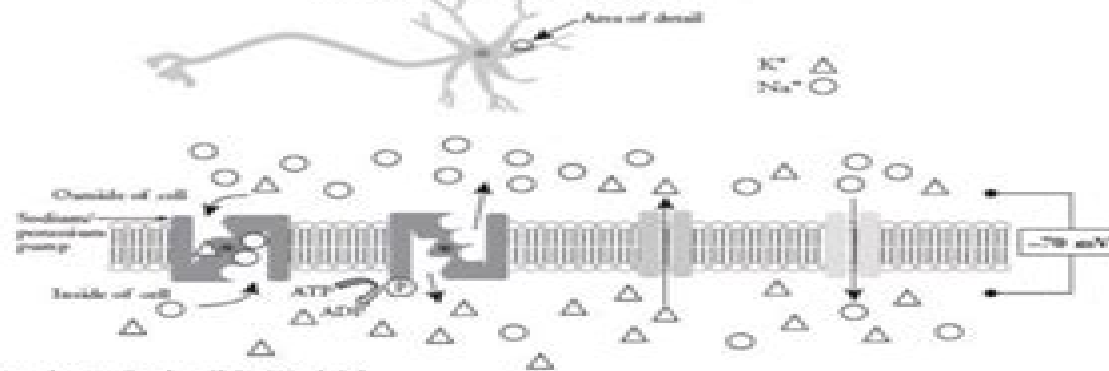


1. Model 1 is an illustration of two neurons. Label one of the neurons in the diagram with the following structures:

Cell body or soma	Axon
Cell nucleus	Synapse
Dendrites	

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?

Pogil Activities For Ap Biology Neuron Function

Wolfgang Guggemos



Pogil Activities For Ap Biology Neuron Function:

Pogil Activities For Ap Biology Neuron Function Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Pogil Activities For Ap Biology Neuron Function**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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