

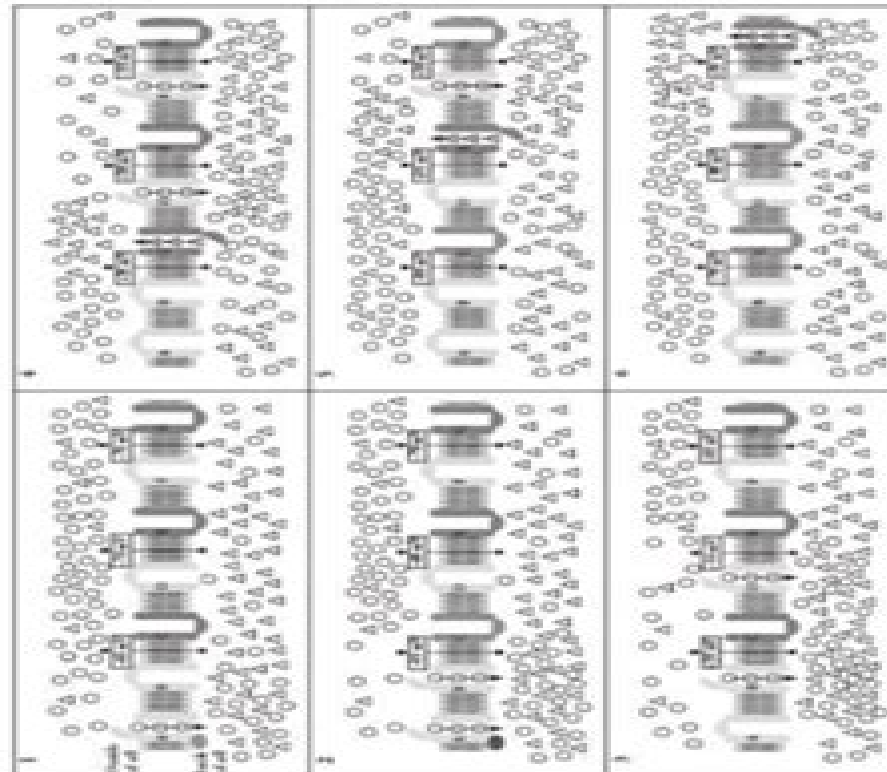
Neuron Function: How does a signal travel across and between neurons?

Why?

Just as the coaxial cables that run down your street or through your house carry television and Internet signals, the job of a neuron is to move an electrical signal from one place to another in order to send sensory messages throughout the body. In a previous activity you saw how a membrane potential is formed both at rest and during an inflow of ions. In this activity you will explore how changes in membrane potentials can propagate a signal down the axon of a neuron.

1. Which of the gated embedded proteins in Model 1 allow sodium ions (Na^+) through the membrane?
2. Which of the gated embedded proteins in Model 1 allow potassium ions (K^+) through the membrane?
3. The neuron illustrated in Model 1 has received a signal from either a sensory cell (taste bud, skin cell, retinal cell, etc.) or from another neuron. What evidence do you find in diagram 1 of the model that indicates a signal has been received?
4. In diagram 2 of Model 1, gated embedded protein B has opened. Was this opening triggered by the arrival of a signal ligand? If no, propose an alternate stimulus that might have triggered the gate to open.
5. Consider Model 1.
 - a. When a signal moves down the axon of the neuron, which direction do sodium ions move through the voltage-gated embedded proteins?
 - b. What does the movement of sodium ions across the membrane do to the membrane potential near the open embedded protein?
6. Consider Model 1.
 - a. When a signal moves through the axon of the neuron, which direction do potassium ions move through the voltage-gated embedded proteins?
 - b. What does the movement of potassium ions across the membrane do to the membrane potential near the open embedded protein?

Model 1 – An Action Potential



Ap Bio Pogil Neuron Function Answer Key

Shasha Hu



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Unveiling the Magic of Words: A Overview of "**Ap Bio Pogil Neuron Function Answer Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Ap Bio Pogil Neuron Function Answer Key**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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