

## 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 ( $\bigcirc$ ) through the membrane?

*Gates A, B, D, and F allow sodium ions through the membrane.*

2. Which of the gated embedded proteins in Model 1 allow potassium ions ( $\triangle$ ) through the membrane?

*Gates C, E, and G allow potassium ions 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?

*A signal ligand has bound to the ligand-gated embedded protein and the gate has opened.*

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.

*No, diagram 2 does not show a ligand bound to embedded protein B. The gate may have opened because of the change in membrane potential from the flood of ions nearby.*

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?

*Sodium ions move into the cell when the sodium gates are opened.*

- b. What does the movement of sodium ions across the membrane do to the membrane potential near the open embedded protein?

*The membrane potential increases (gets more positive) as the sodium ions move into the cell.*

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?

*Potassium ions move out of the cell when the potassium gates are opened.*

- b. What does the movement of potassium ions across the membrane do to the membrane potential near the open embedded protein?

*The membrane potential decreases (gets more negative) as the potassium ions move out of the cell.*

### Neuron Function

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