

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 () 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 () 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

Ap Biology Pogil Worksheet Neuron Function

Marco Cascella

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Table of Contents Ap Biology Pogil Worksheet Neuron Function

1. Understanding the eBook Ap Biology Pogil Worksheet Neuron Function
 - The Rise of Digital Reading Ap Biology Pogil Worksheet Neuron Function
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Pogil Worksheet Neuron Function
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Biology Pogil Worksheet Neuron Function
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Biology Pogil Worksheet Neuron Function
 - Personalized Recommendations
 - Ap Biology Pogil Worksheet Neuron Function User Reviews and Ratings
 - Ap Biology Pogil Worksheet Neuron Function and Bestseller Lists
5. Accessing Ap Biology Pogil Worksheet Neuron Function Free and Paid eBooks
 - Ap Biology Pogil Worksheet Neuron Function Public Domain eBooks
 - Ap Biology Pogil Worksheet Neuron Function eBook Subscription Services

- Ap Biology Pogil Worksheet Neuron Function Budget-Friendly Options
- 6. Navigating Ap Biology Pogil Worksheet Neuron Function eBook Formats
 - eBook, PDF, MOBI, and More
 - Ap Biology Pogil Worksheet Neuron Function Compatibility with Devices
 - Ap Biology Pogil Worksheet Neuron Function Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Pogil Worksheet Neuron Function
 - Highlighting and Note-Taking Ap Biology Pogil Worksheet Neuron Function
 - Interactive Elements Ap Biology Pogil Worksheet Neuron Function
- 8. Staying Engaged with Ap Biology Pogil Worksheet Neuron Function
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Pogil Worksheet Neuron Function
- 9. Balancing eBooks and Physical Books Ap Biology Pogil Worksheet Neuron Function
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Pogil Worksheet Neuron Function
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Biology Pogil Worksheet Neuron Function
 - Setting Reading Goals Ap Biology Pogil Worksheet Neuron Function
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Biology Pogil Worksheet Neuron Function
 - Fact-Checking eBook Content of Ap Biology Pogil Worksheet Neuron Function
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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