

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.

- Which of the gated embedded proteins in Model 1 allow sodium ions (O) through the membrane?
Gates A, B, D, and F allow sodium ions through the membrane.
- Which of the gated embedded proteins in Model 1 allow potassium ions (Δ) through the membrane?
Gates C, E, and G allow potassium ions through the membrane.
- 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.
- 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.
- Consider Model 1.
 - 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.
 - 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.
- Consider Model 1.
 - 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.
 - 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 Ap Biology Pogil

Lei Shi



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Table of Contents Neuron Function Ap Biology Pogil

1. Understanding the eBook Neuron Function Ap Biology Pogil
 - The Rise of Digital Reading Neuron Function Ap Biology Pogil
 - Advantages of eBooks Over Traditional Books
2. Identifying Neuron Function Ap Biology Pogil
 - 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 Neuron Function Ap Biology Pogil
 - User-Friendly Interface
4. Exploring eBook Recommendations from Neuron Function Ap Biology Pogil
 - Personalized Recommendations
 - Neuron Function Ap Biology Pogil User Reviews and Ratings
 - Neuron Function Ap Biology Pogil and Bestseller Lists
5. Accessing Neuron Function Ap Biology Pogil Free and Paid eBooks
 - Neuron Function Ap Biology Pogil Public Domain eBooks
 - Neuron Function Ap Biology Pogil eBook Subscription Services
 - Neuron Function Ap Biology Pogil Budget-Friendly Options
6. Navigating Neuron Function Ap Biology Pogil eBook Formats

- ePub, PDF, MOBI, and More
 - Neuron Function Ap Biology Pogil Compatibility with Devices
 - Neuron Function Ap Biology Pogil Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Neuron Function Ap Biology Pogil
 - Highlighting and Note-Taking Neuron Function Ap Biology Pogil
 - Interactive Elements Neuron Function Ap Biology Pogil
 8. Staying Engaged with Neuron Function Ap Biology Pogil
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Neuron Function Ap Biology Pogil
 9. Balancing eBooks and Physical Books Neuron Function Ap Biology Pogil
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Neuron Function Ap Biology Pogil
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Neuron Function Ap Biology Pogil
 - Setting Reading Goals Neuron Function Ap Biology Pogil
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Neuron Function Ap Biology Pogil
 - Fact-Checking eBook Content of Neuron Function Ap Biology Pogil
 - 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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