
Neuron Structure and Function POGIL Quiz

list the parts of the neuron (be able to label them too) - ✓✓

cell body/soma

cell nucleus

dendrites

axon

synapse

what are the parts of a neuron membrane? - ✓✓ phospholipid layer, embedded proteins, sodium/potassium pump, K^+ , Na^+ , and ATP/ADP

which side of the membrane has more sodium ions when the neuron is at rest? - ✓✓ the outside of the cell

why cant sodium ions cross the membrane without the use of a protein channel? - ✓✓ the sodium ions are polar whereas the phospholipid layer is nonpolar. the protein channel is surrounded by polar groups that allow the sodium ions to move through.

which direction should the sodium ions flow naturally if a channel is provided? - ✓✓ into the cell

Neuron Function Pogil Packet Answers

Daniel B. Drachman



Neuron Function Pogil Packet Answers:

Neuron's Function Revealed, 2009 There is a new way to explore biology's secrets. With a flash of light, scientists from the U.S. Department of Energy's Lawrence Berkeley National Laboratory and the University of California Berkeley zeroed in on the type of neural cell that controls swimming in larval zebrafish. Using innovative light-activated proteins and gene expression techniques, the scientists zapped several zebrafish with a pulse of light and initiated a swimming action in a subset of fish that was traced back to the type of neuron that drives the side-to-side motion of their tail fins. The technique behind this needle-in-haystack search for the neural roots of a specific behavior could become a powerful way to learn how any biological system works. <http://newscenter.lbl.gov/press-releases/2009/09/16/light-activated-protein/> *Macromolecules and the Function of the Neuron* A. Lodin, P. Rose, 1984-03 **Basic Concepts of Neuronal Function** Don L. Jewett, 1984

Trophic Function of the Neuron, **Throphic Function of the Neuron** Daniel B. Drachman, 1974 **Function and Mechanism of Polarized Targeting of Neuronal Membrane Proteins** Joshua A. Barry, 2013 Abstract The ability of a neuron to survive and function properly requires many factors including a multitude of proteins. Membrane proteins are a specific class that are expressed within the plasma membrane and function in a variety of roles from action potential firing to neurotransmitter reuptake. To perform this variety of functions requires proper localization of these proteins; however, the exact functional relevance and underlying mechanisms that regulate this targeting is still an area of intense research. In this thesis, I examined the functional role that NgCAM had on inducing bundling of axons or dendrites via regulation by domain deletion or phosphorylation. I also examined how the polarized targeting of the splice variants of Kv3.1 could affect the maximal spiking frequency of neurons. Then I explored how Kv3.1 could induce clustering and activation of its motor kinesin 1 KIF5. Finally, I looked at the role that metal binding sites, specifically zinc, play on the localization and activity of Kv3.1. My various areas of research are all linked by the shared idea that the proper localization of membrane proteins can regulate the function of a neuron. Protein Synthesis and Neuronal Function in Single, Identified Neurons of Aplysia Californica Yoke Peng Loh, 1973 The Molecules Behind Neuronal Function Mario Mikula, 2003 **Light-Controlled Modulation and Analysis of Neuronal Functions** Carlo Matera, Piotr Bregestovski, 2023 Light is an extraordinary tool allowing us to read out and control neuronal functions thanks to its unique properties: it has a great degree of bioorthogonality and is minimally invasive; it can be precisely delivered with high spatial and temporal precision and it can be used simultaneously or consequently at multiple wavelengths and locations. *Trophic Functions of the Neuron* Daniel B. Drachman, 1964

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