

Neuron Structure

What are the essential structures that make up a neuron?

Why?

Cells are specialized for different functions in multicellular organisms. In animals, one unique kind of cell helps organisms survive by collecting information and sending messages throughout the body. The shapes and features of neurons, which are the primary cells in the nervous system, enable animals to experience all of the five senses; find food, mates, and shelter; and to survive in their diverse environments.

Model 1 – Parts of a Neuron



1. Model 1 is an illustration of two neurons. Label one of the neurons in the diagram with the following structures:

Cell body or soma

Axon

Cell nucleus

Synapse

Dendrites

2. Which structure(s) on the neuron in Model 1 would receive a signal from either a sensory cell (taste bud, touch receptor, retinal cell) or from another neuron?

The structure that would signal from either a sensory cell to another neuron is the dendrites.



3. Draw an arrow through the two cells in Model 1 to show the path of a nerve impulse if a message was being sent through the two neurons.

Biology Pogil Answers Neuron Structure

Grigorii Izrailevich Poliakov



Biology Pogil Answers Neuron Structure:

The Neuron Irwin B. Levitan, Leonard K. Kaczmarek, 2015 Intended for use by advanced undergraduate graduate and medical students this book presents a study of the unique biochemical and physiological properties of neurons emphasising the molecular mechanisms that generate and regulate their activity *Neuron Structure of the Brain* Grigoriĭ Izrailevich Poliakov, 1972 **Neuron Structure of the Brain** Grigoriĭ Izrailevich Poliakov, 1972 **Molecular Biology of the Neuron** R. W. Davies, Brian J. Morris, 2004-04-08 Nerve cells neurons are arguably the most complex of all cells From the action of these cells comes movement thought and consciousness It is a challenging task to understand what molecules direct the various diverse aspects of their function This has produced an ever increasing amount of molecular information about neurons and only in *Molecular Biology of the Neuron* can a large part of this information be found in one source In this book a non specialist can learn about the molecules that control information flow in the brain or the progress of brain disease in an approachable format while the expert has access to a wealth of detailed information from a wide range of topics impacting on his or her field of endeavour The text is designed to achieve a balance of accessibility and broad coverage with up to date molecular detail In the six years since the first edition of *Molecular Biology of the Neuron* there has been an explosion in the molecular information about neurons that has been discovered and this information is incorporated into this second edition Entirely new chapters have been introduced where recent advances have made a new aspect of neuronal function more comprehensible at the molecular level Written by leading researchers in the field the book provides an essential overview of the molecular structure and function of neurons and will be an invaluable tool to students and researchers alike **Neuron Structure of the Brain** Grigoriĭ Izrailevich Poliakov, 1972 *The Fine Structure of the Nervous System* Alan Peters, Sanford L. Palay, Henry deF. Webster, 1976 **Neuron Structure of the Brain** Grigoriĭ Izrailevich Poliakov, 1972 *Introduction to Theoretical Neurobiology: Linear cable theory and dendritic structure* Henry Clavering Tuckwell, 1988 Explaining the basic properties of a neuron this volume develops mathematical theories for the way neurons respond to the various stimuli they receive It contains descriptions and analyses of the principal mathematical models providing a brief review of the basic neuroanatomical and neurophysiological facts with the mathematical theories **Neuron Structure of the Brain, Engl** G. I. Poljakov, 1972 *Cell Biology of Brain* William Eric Watson, 1976

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