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First, the neuron is polarized, possessing receptive dendrites on one end and communicating axons with synaptic terminals at the other. This polarization of functional properties is commonly used to restrict the flow of impulses to one direction. Second, the neuron is electrically and chemically excitable.

Cell and Molecular Biology of the Neuron | Principles of ...

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The Neuron: Cell and Molecular Biology

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A neuron, neurone (old British spelling) or nerve cell, is an electrically excitable cell that communicates with other cells via specialized connections called synapses.It is the main component of nervous tissue in all animals except sponges and placozoa. Plants and fungi do not have nerve cells... Neurons are typically classified into three types based on their function.

Neuron - Wikipedia

specialized cells, genes are being expressed to shape what cell it will become Briggs and King (1952) performed an experiment involving cells from a blastula of a frog, transferring them from the blastula into the enucleated cell and getting a tadpole! nuclei of blastula have complete genetic information

Cell and Molecular Biology Chapter 8 Flashcards | Quizlet

The neuron is composed of four main parts: the soma (cell body), the dendrite, the axon, and the synapse, as shown infigure 3 .1. Neuromechanics: The Role of Tension in Neuronal Growth and ...

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