



Neurons are specialized cells that transmit information throughout the nervous system. They consist of a cell body (soma) containing the nucleus, dendrites that receive signals, and an axon that carries signals to other neurons or muscles. The axon is often covered by a myelin sheath, which speeds up the transmission of electrical impulses. Axon terminals at the end of the axon release neurotransmitters to communicate with other cells.

QUESTION

FACTFILE



A synapse is the point of contact between two neurons. It allows for the transmission of information from one neuron to another. The presynaptic terminal contains vesicles filled with neurotransmitters. When an action potential reaches the terminal, it triggers the release of these neurotransmitters into the synaptic cleft. The neurotransmitters then bind to receptors on the postsynaptic terminal, initiating a new action potential in the second neuron.

QUESTION