

The Nervous System: Anatomy Review

1. Neurons communicate with other neurons and stimulate both _____ and _____.
2. Match the following parts of the neuron and their function:
Dendrites - conductive region; generates an action potential
Soma (cell body) - input area; receives signals from other neurons
Axon - input area; main nutritional and metabolic area
3. Signals from other neurons are received at junctions called _____, located primarily on the _____ and _____, the receptive and integrative region of the neuron.
4. The area where the axon emerges from the soma is called the _____.
This is also the area where the outgoing signal, called a/an _____ is generated.
5. An axon can branch, forming axon _____.
At the end, axons branch to form many axon _____.
6. What support cell forms the myelin sheath? _____
Myelin is found around which part of the neuron? _____
The tightly wound cell membrane around the axon forms the myelin sheath and acts as _____.
7. The gaps between the Schwann cells, called the _____, are essential for the conduction of the action potential.
8. The most common central nervous system neuron, which was examined in this exercise, is called a/an _____ neuron.
In the quiz section, you labeled a/an _____ neuron, which is found in the peripheral nervous system.
9. Neurons have (only one or many) axon/axons.
Axons are (never or frequently) branched.
Dendrites have (only one or many) branch/branches.