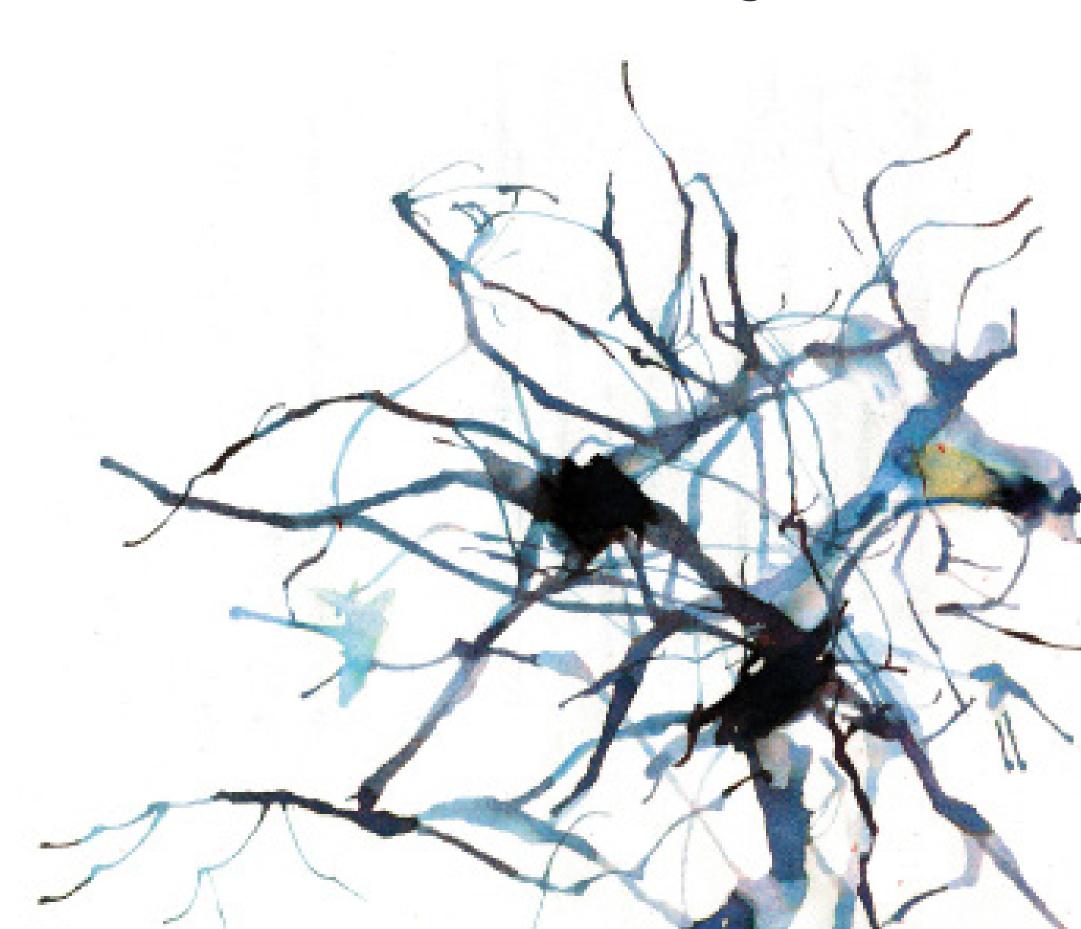
Cells of the Nervous System



Cells of the Nervous System
The Neuron

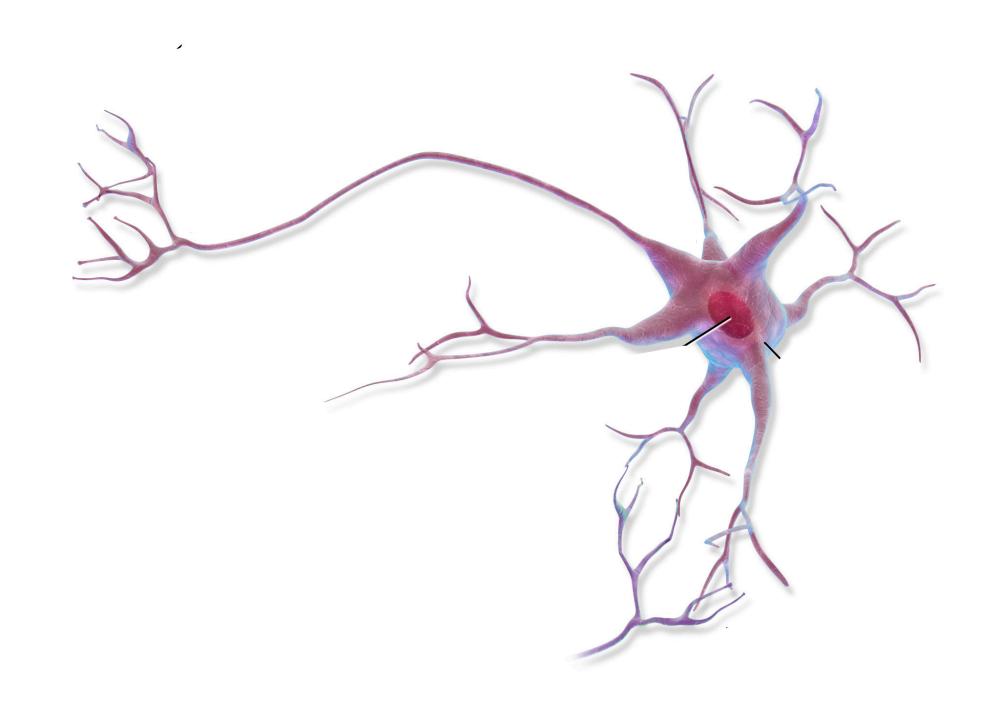
Topics

- Name two general types of cells within the nervous system.
- Draw, label, and define the major features of a neuron.

Learning Objectives

There are two general types:

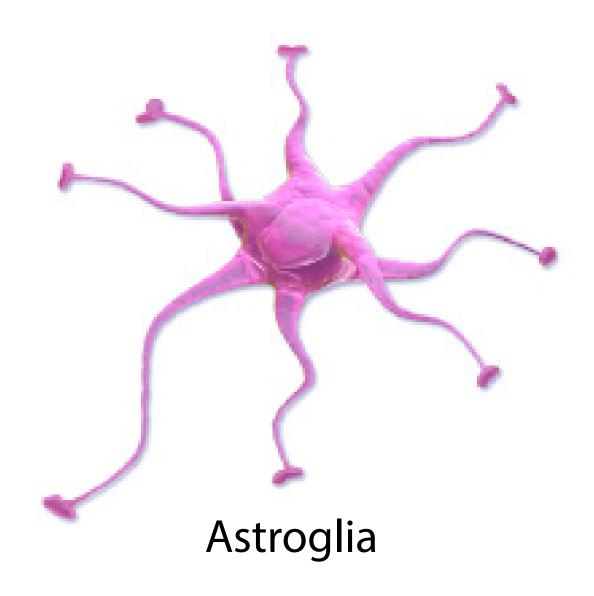
1. Neurons.



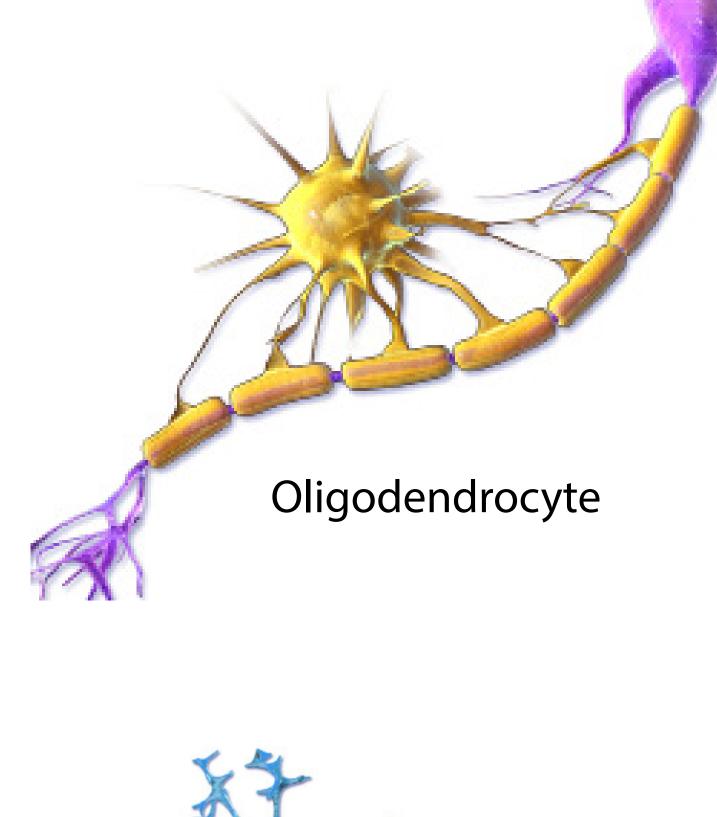
Cells of the NS

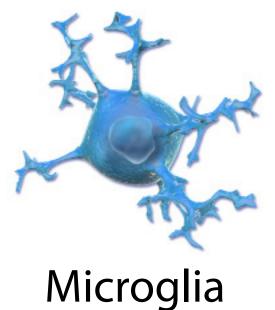
There are two general types:

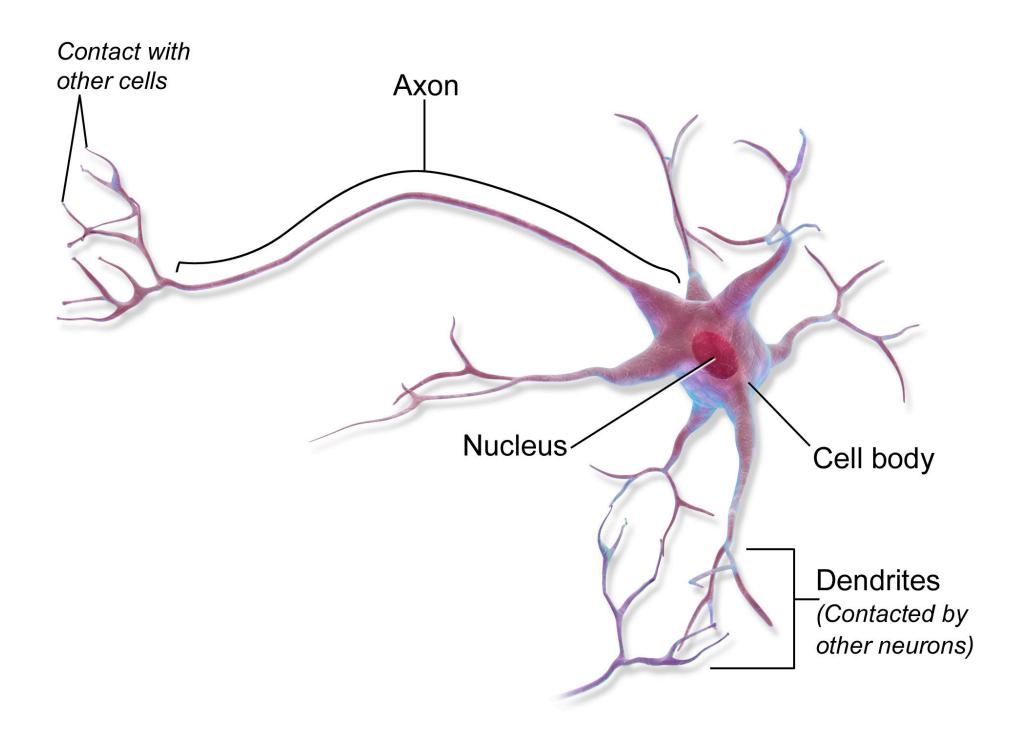
- 1. Neurons.
- 2. Glia.



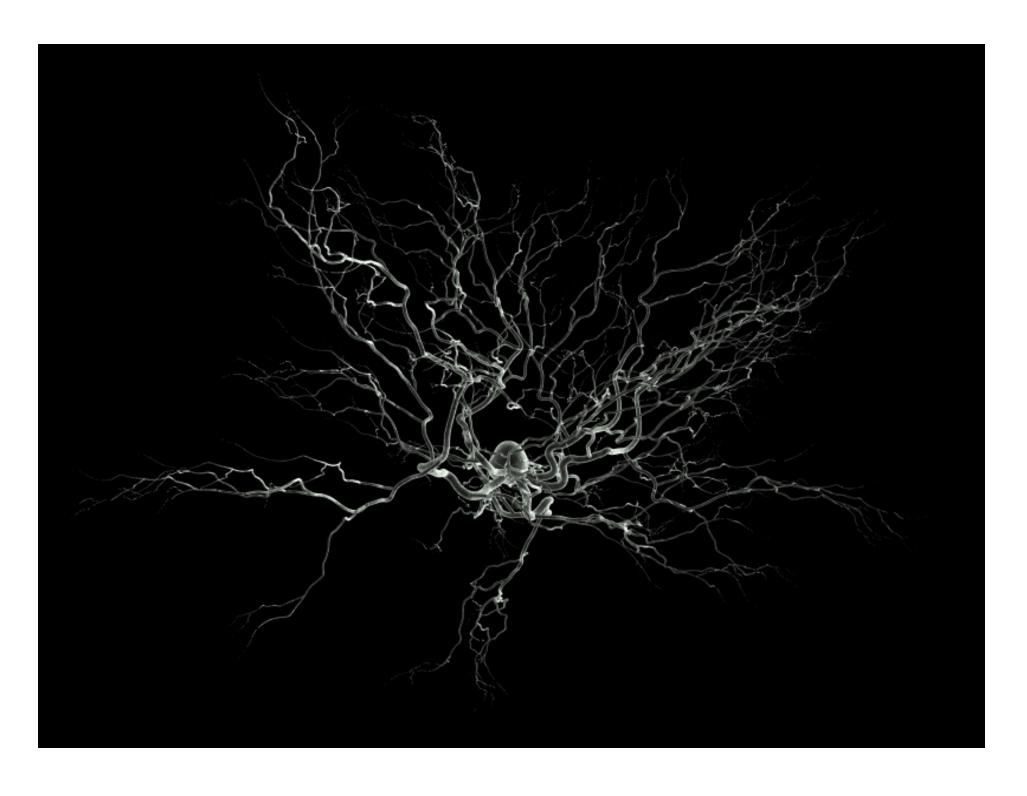
Cells of the NS



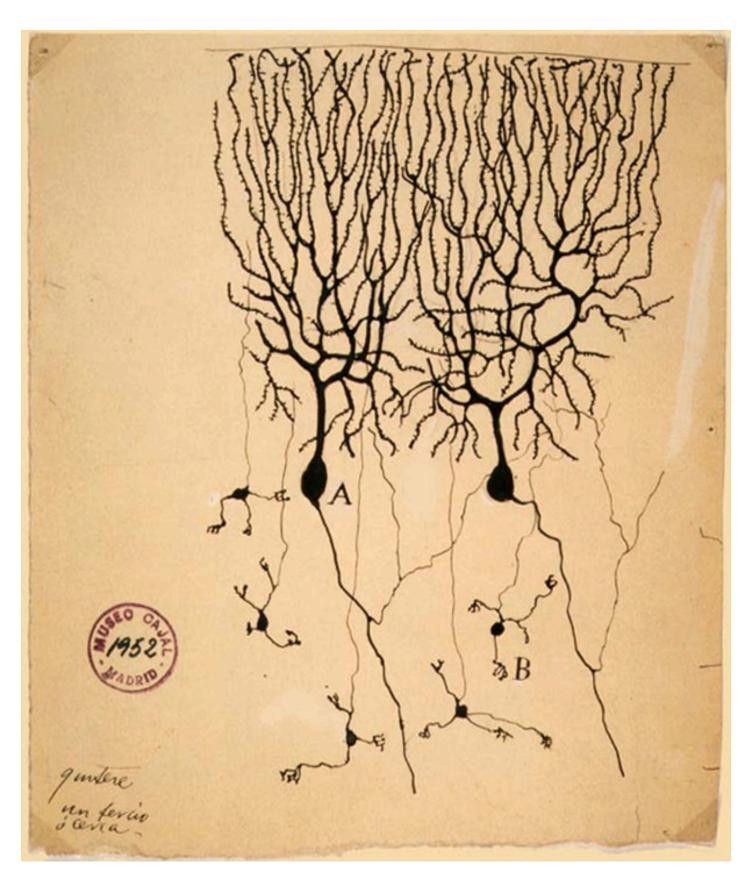




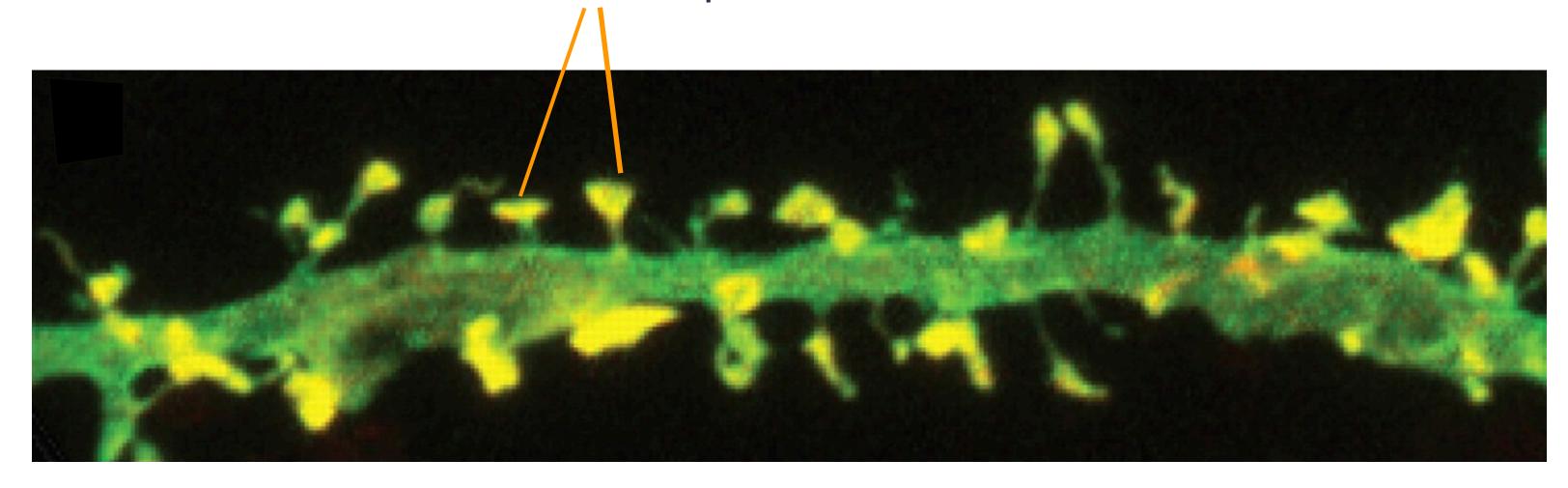
In "real" neurons it isn't quite so easy to distinguish the various parts.

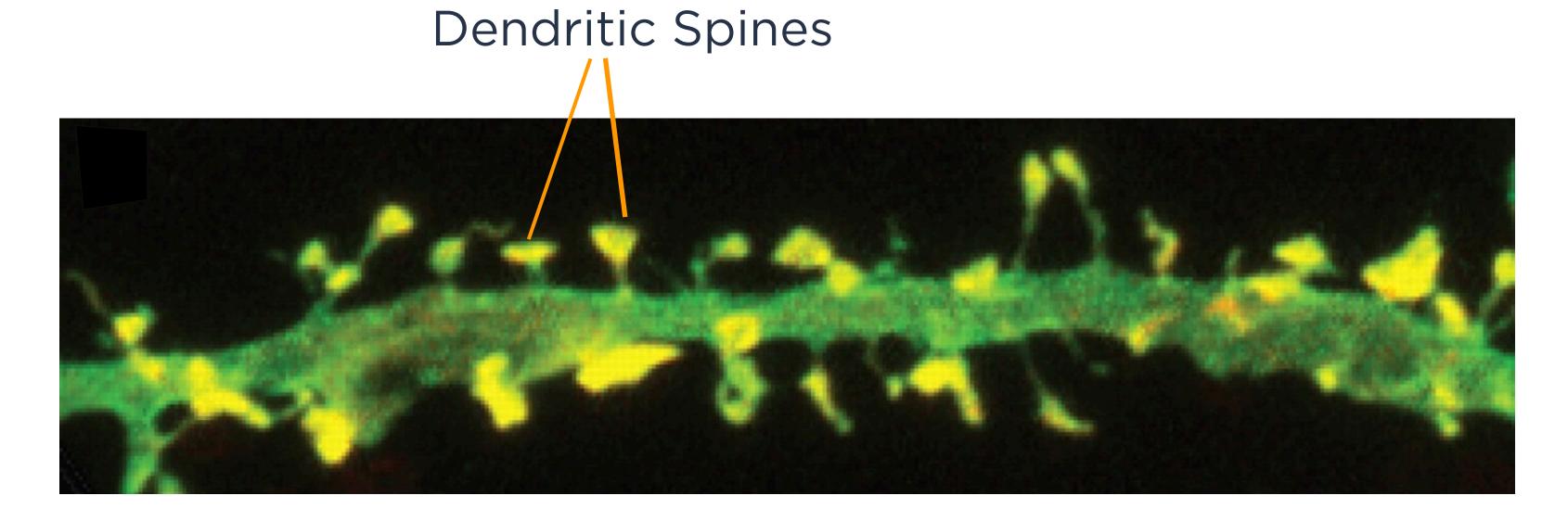


Dendritic trees and axonal arborizations can be very complex --as this classic drawing of Purkinje cells by the neuroanatomist Santiago Ramon-y-Cajal (ray-MON ee ka-YAL) illustrates.

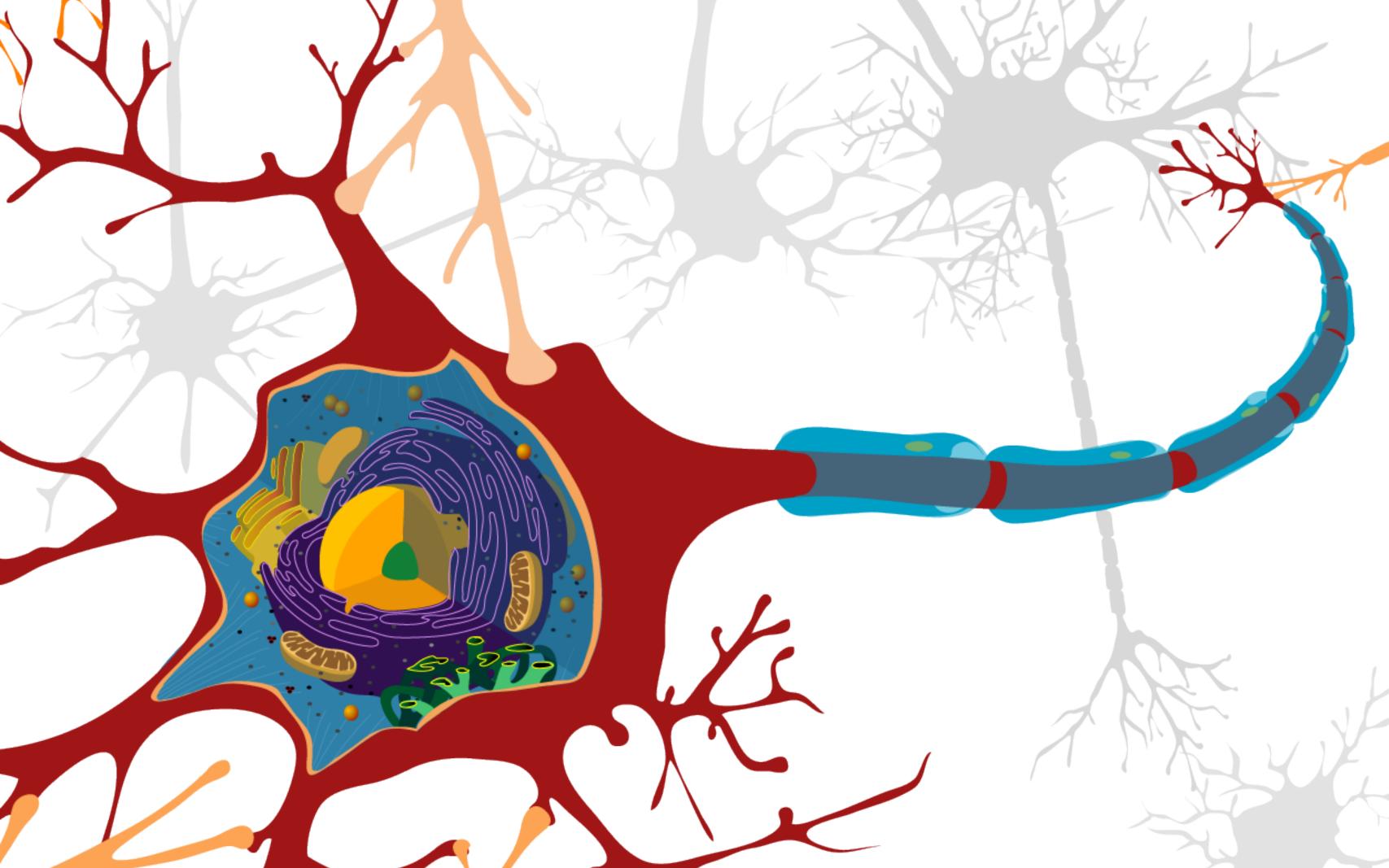


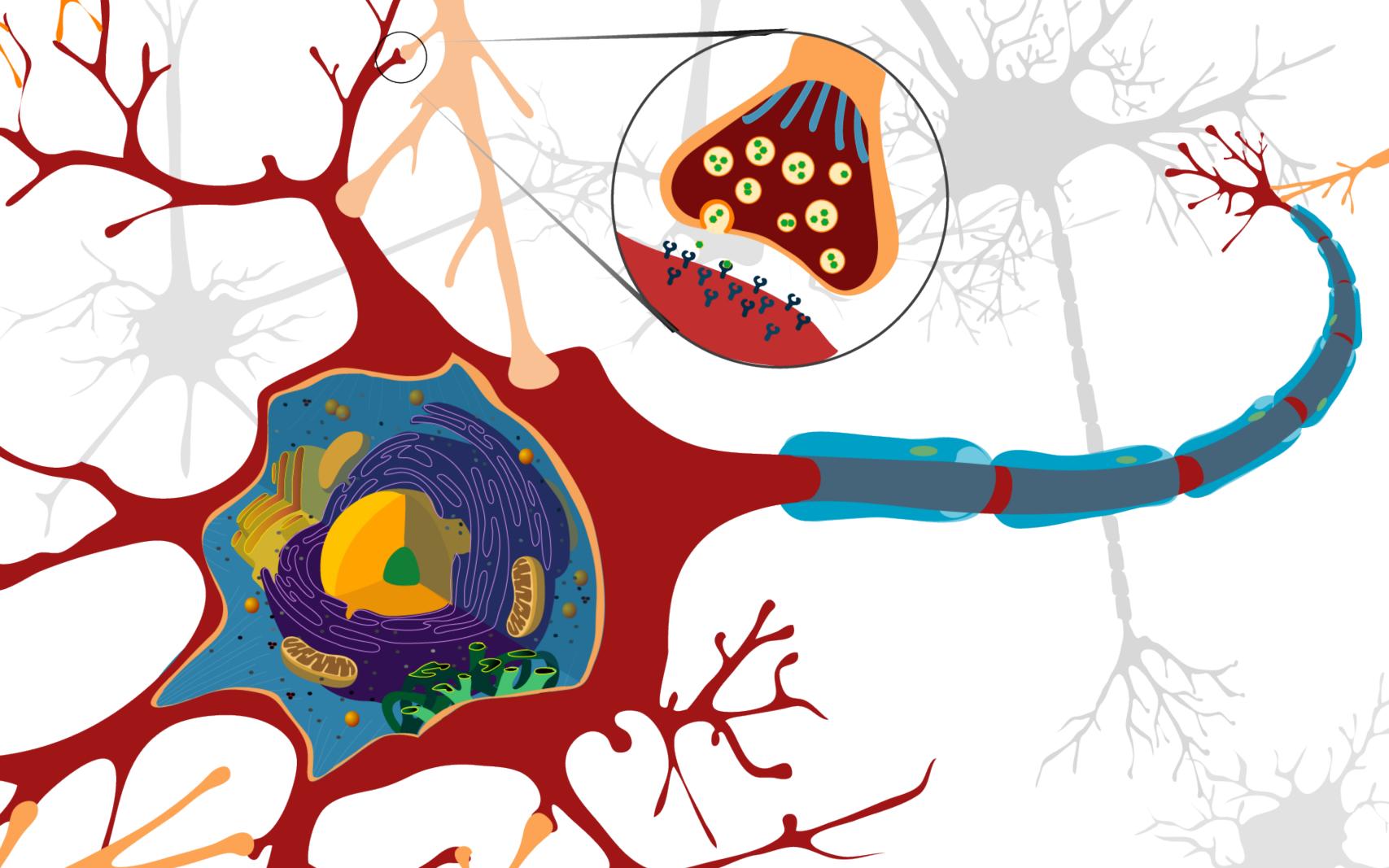
Dendritic Spines



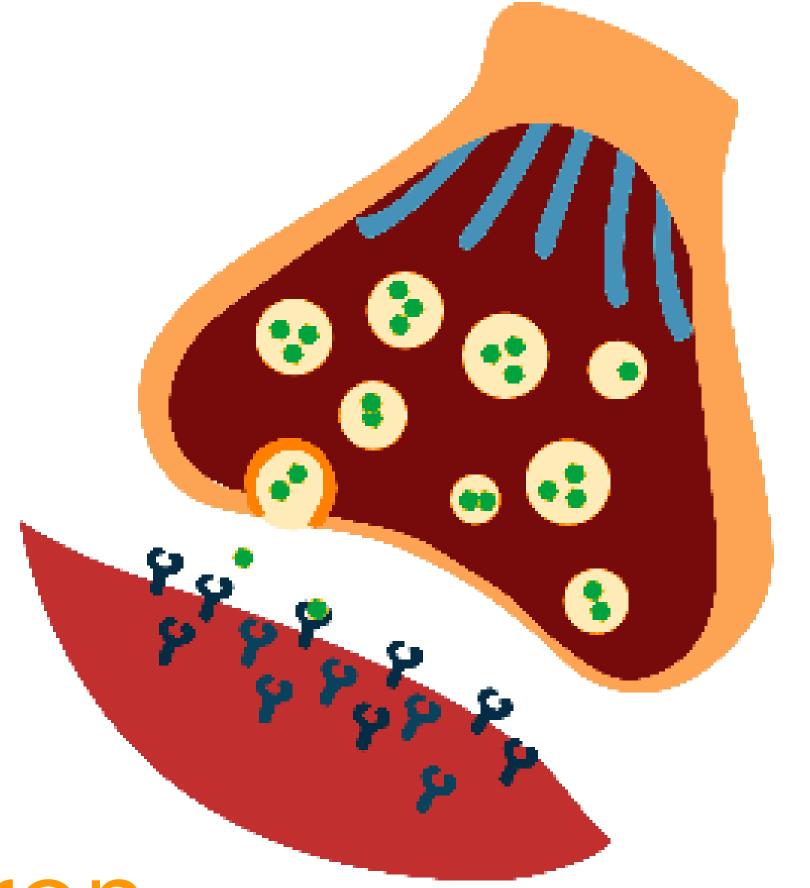


Dendritic spines display considerable plasticity.



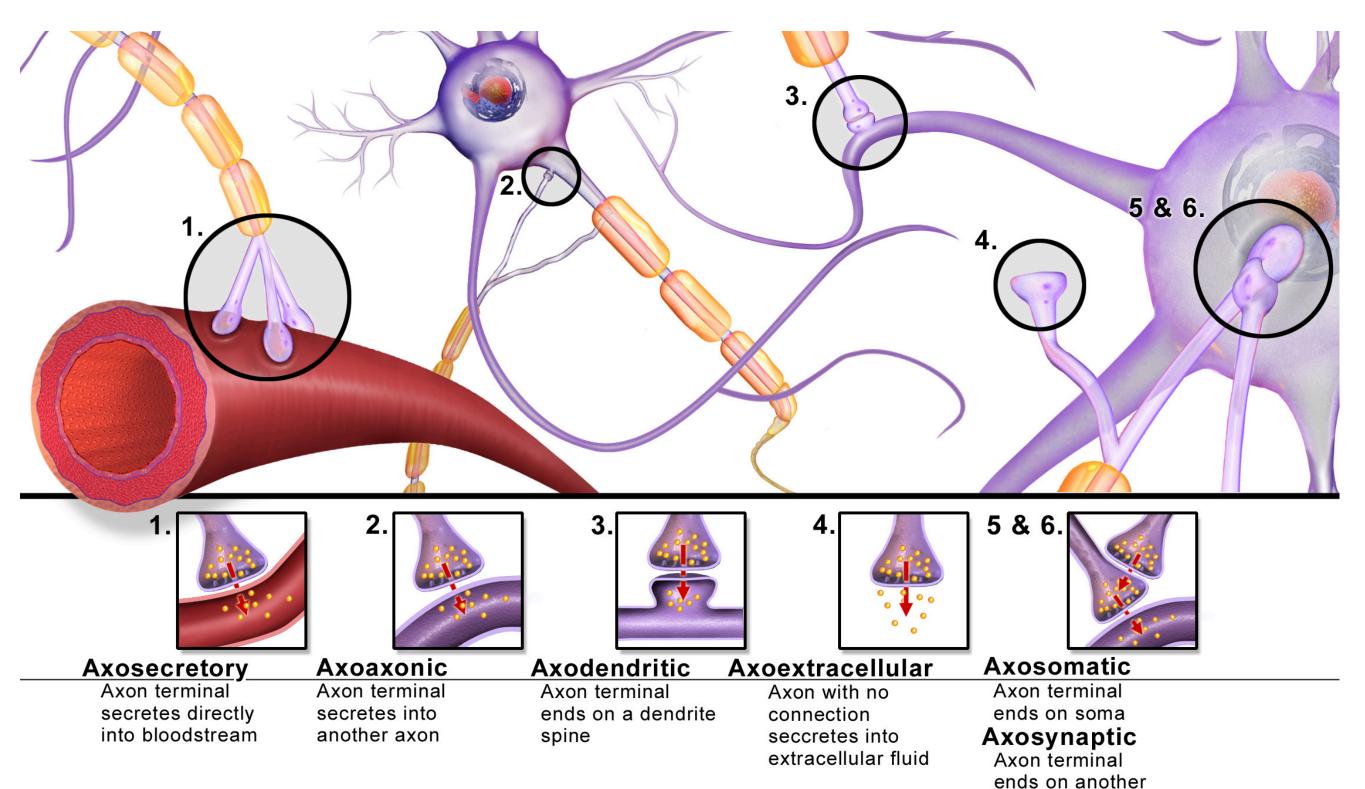


Neurons: The Synapse



Types of Synapses

axon terminal



Types of Neurons

There are three general types:

- 1. Sensory neurons
- 2. Motor neurons
- 3. Interneurons