Neurons

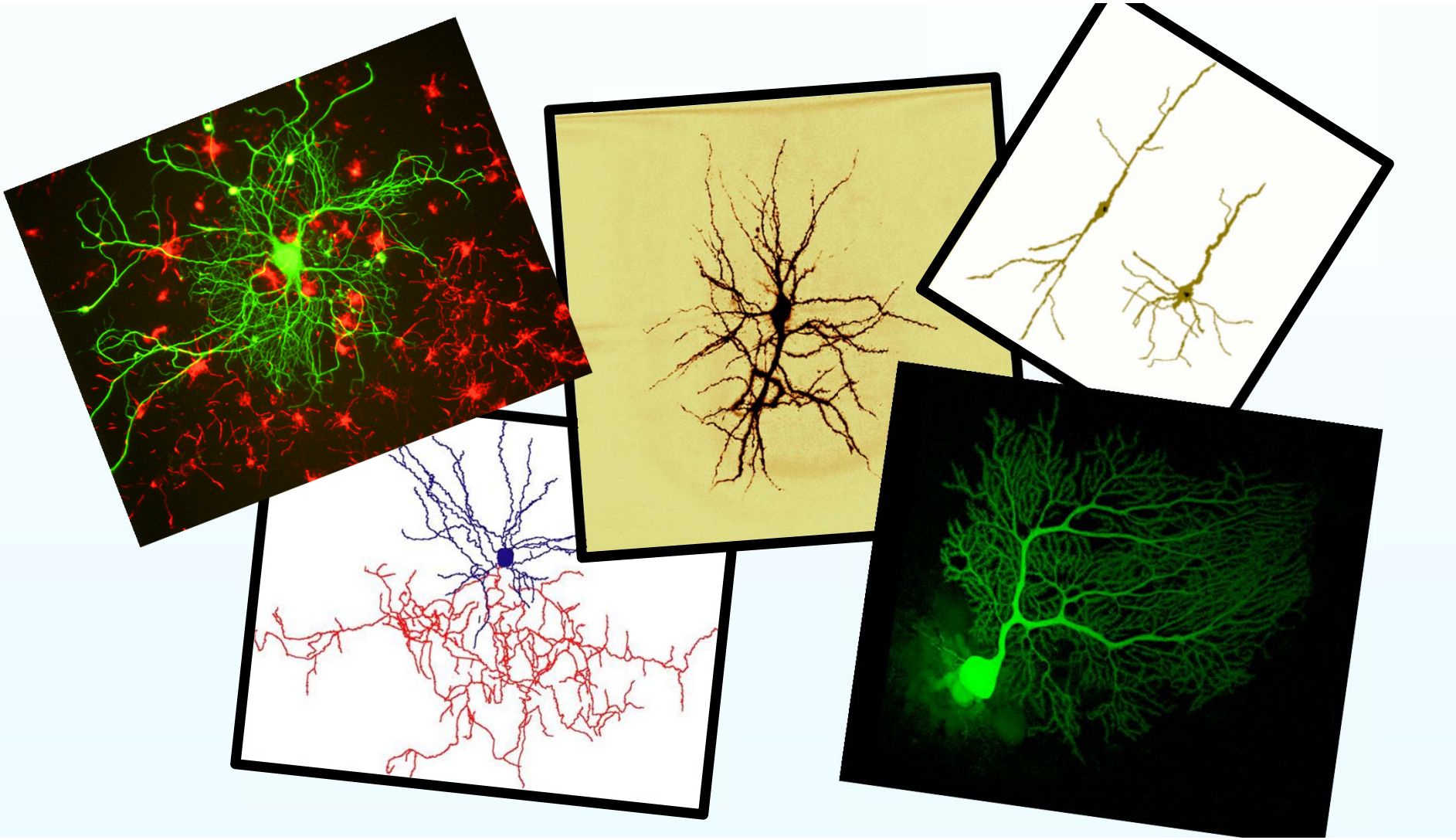
Fundamental unit of the nervous system

Neurons have three roles:

1. Receive

2. Integrate

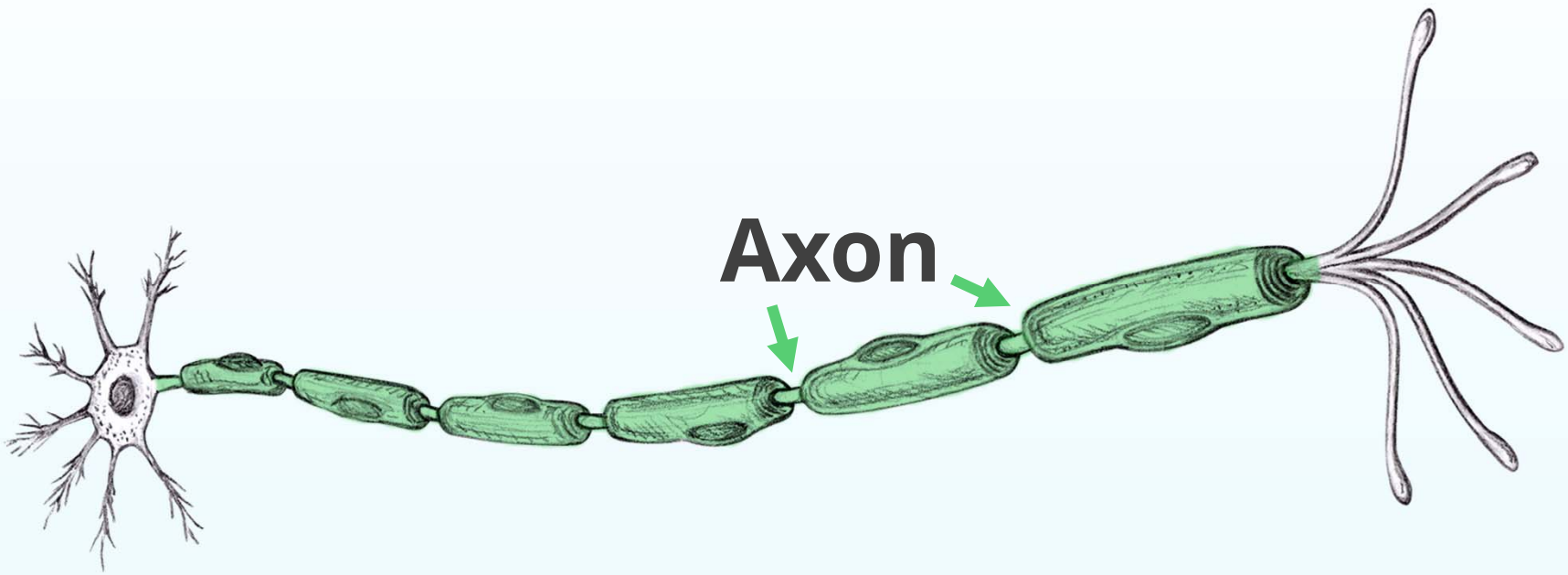
3. Transmit



Four structural regions that are important for communication

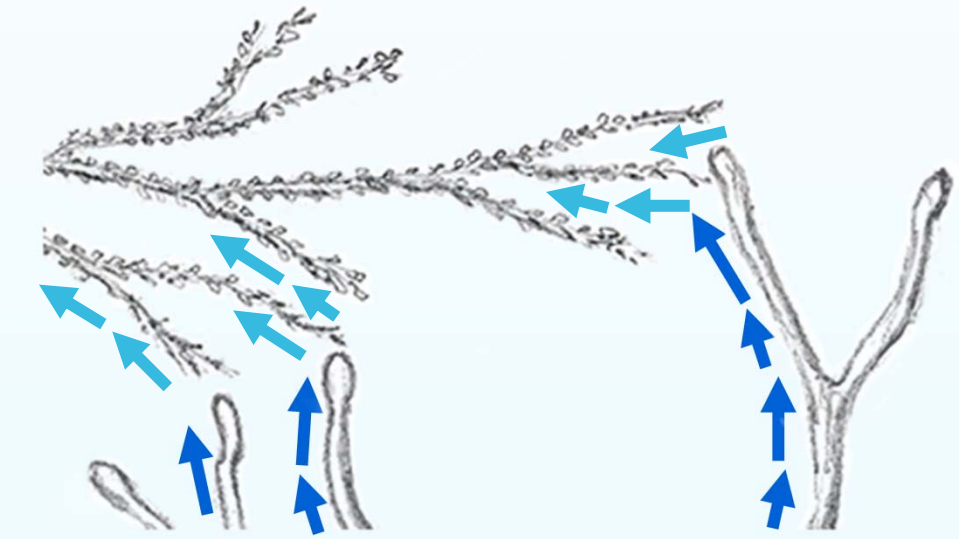
Dendrites

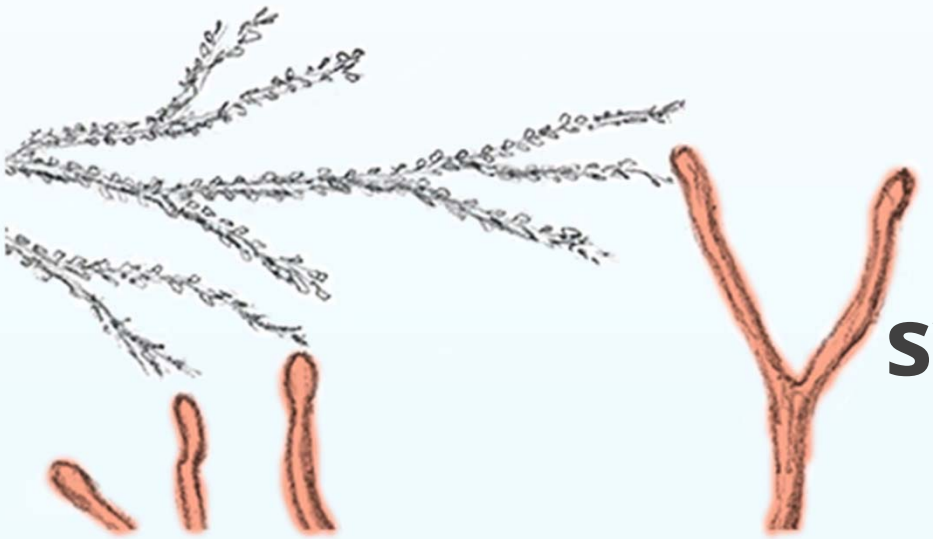
Cell
body


Axon

Axon
terminals

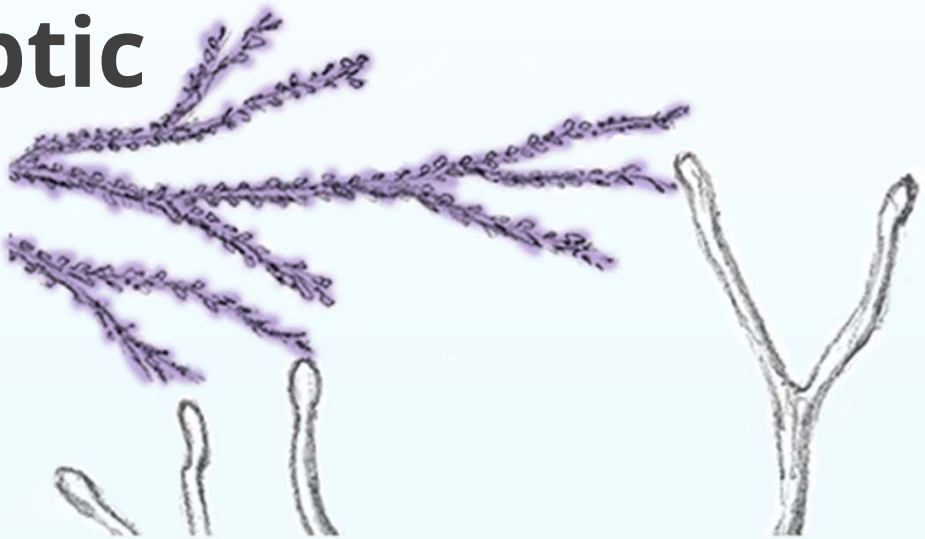
Synapse





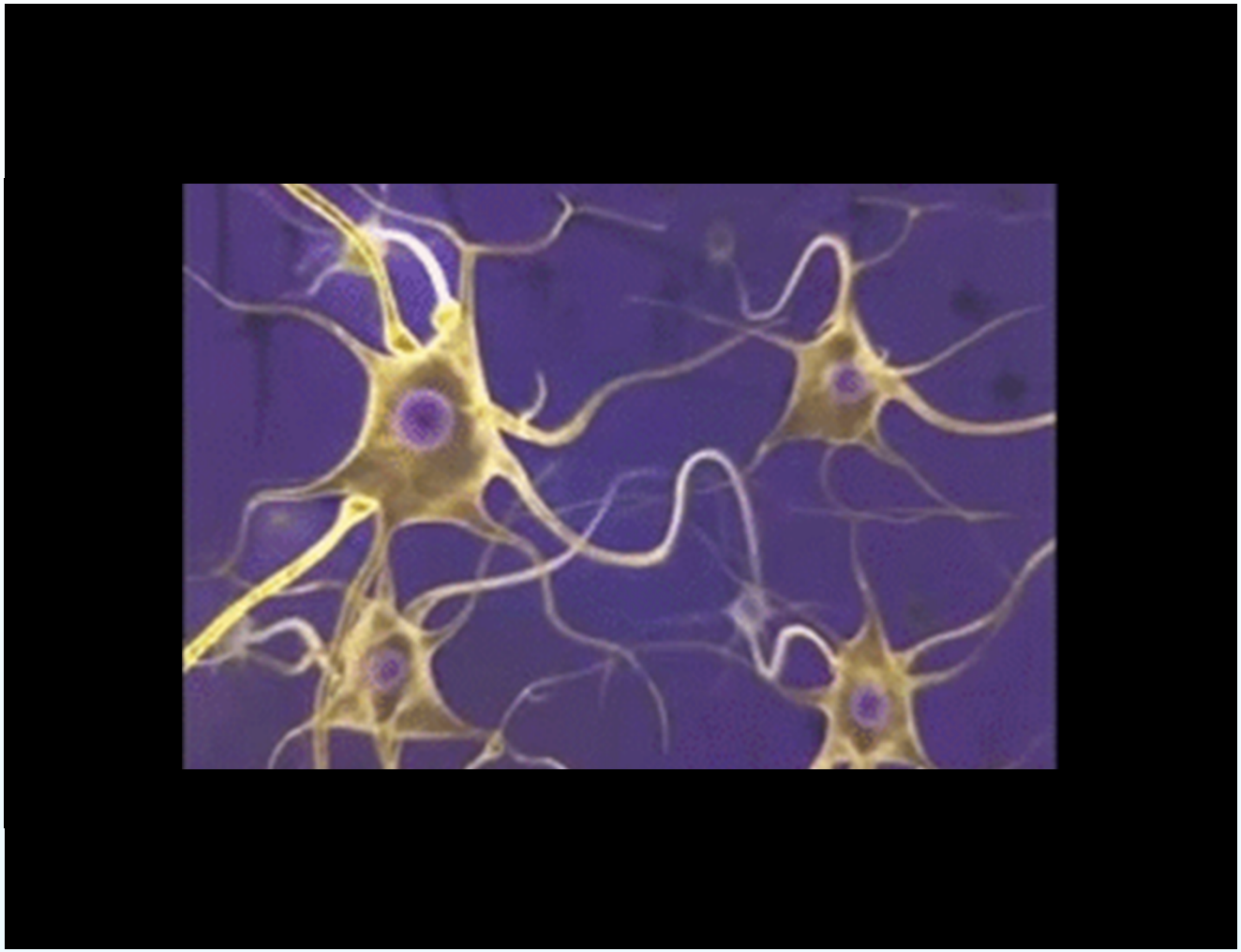
Pre-
synaptic

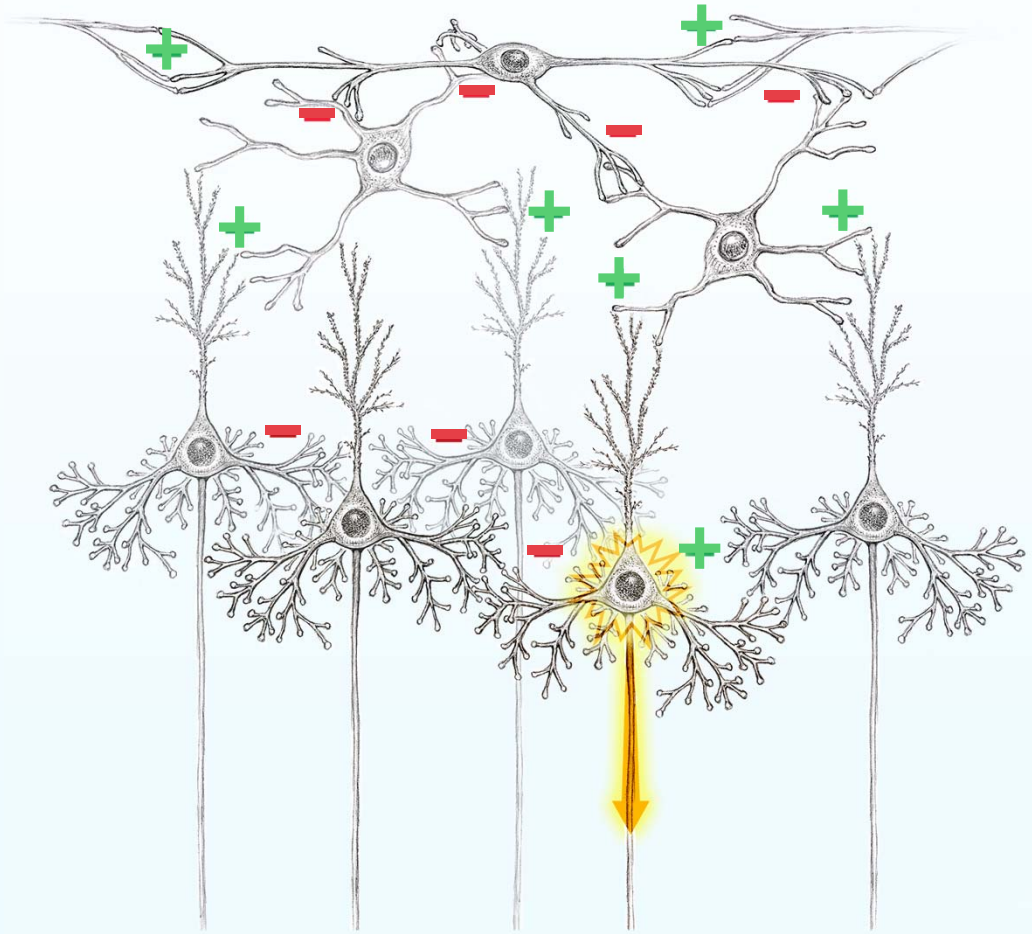
Post-synaptic



Action potential (“firing”)

Electrical impulse that transmits signals to other neurons

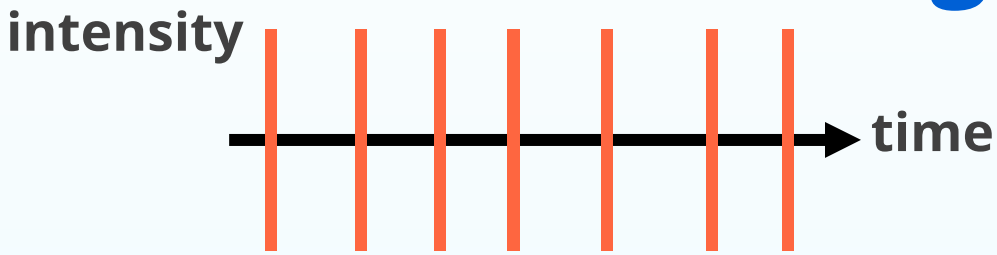




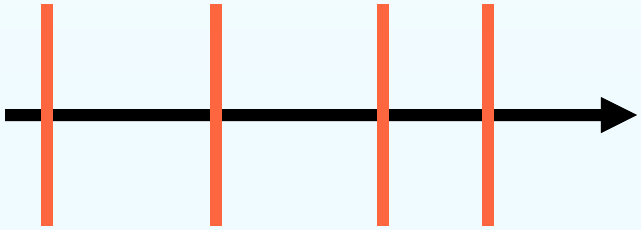
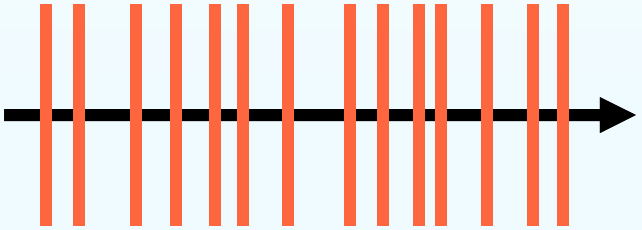
The action potential is all-or-none

A neuron always fires with the same intensity

Base rate of firing



Slower frequency



Faster frequency