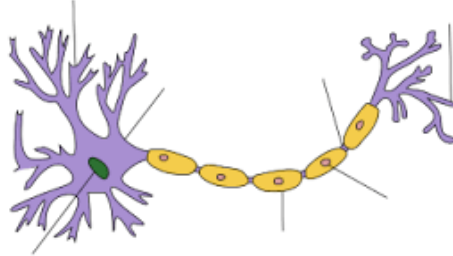


## AP Biology

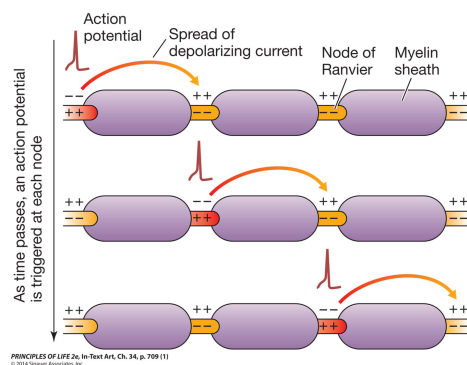
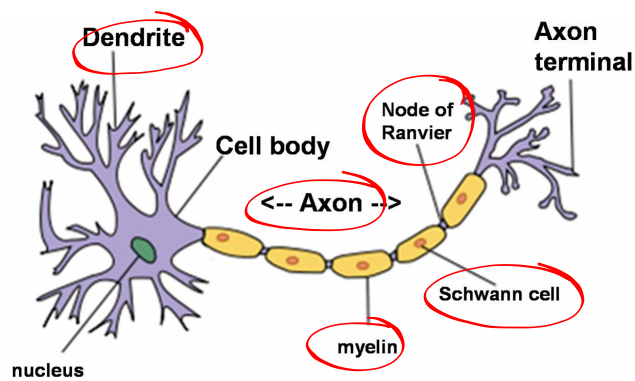
Grab a textbook and turn to chapter 34.

Turn in your lab from last week.

The Nervous System: network of nerve cells that transmit nerve impulses throughout the body.



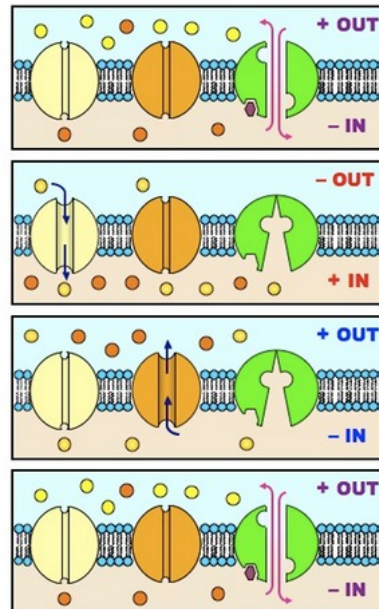
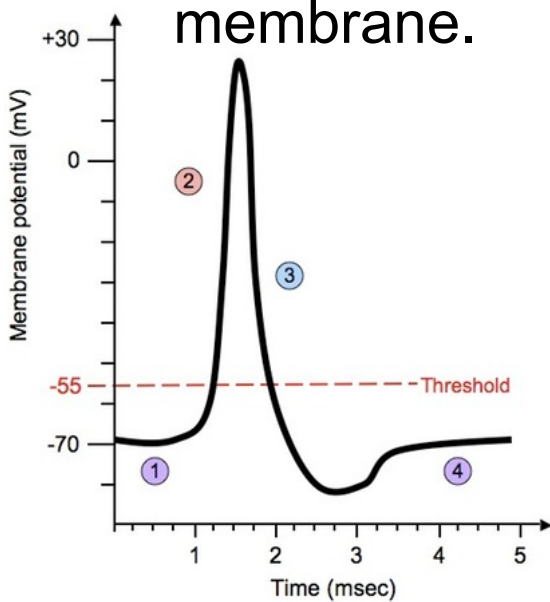
Structure of a neuron:



Define:

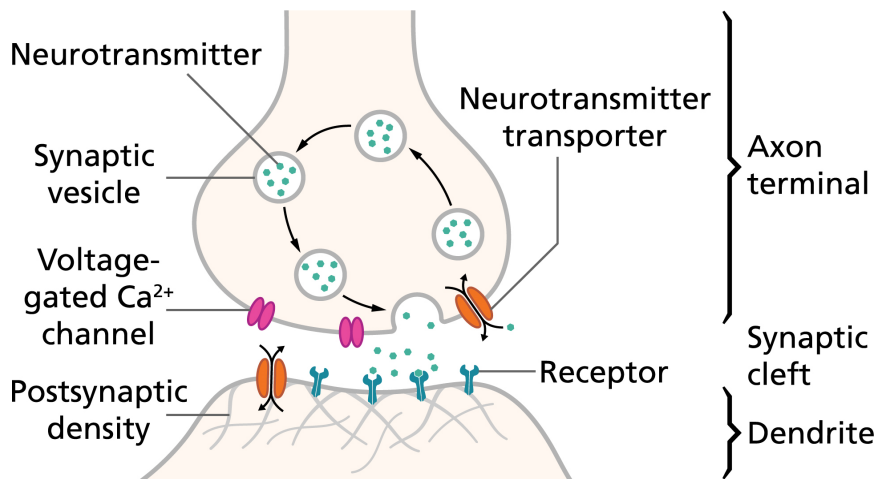
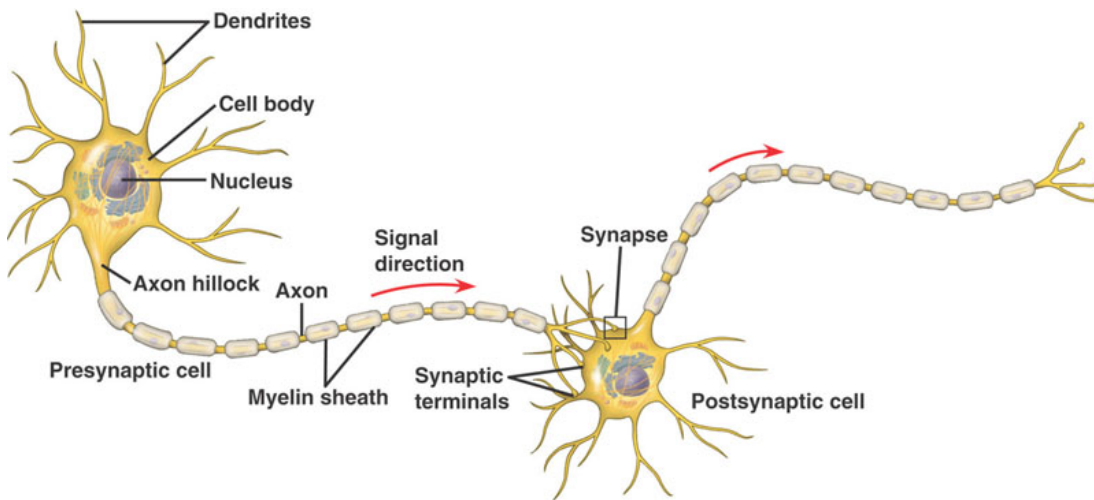
Action potential, depolarization, synapse, neurotransmitter

Action Potential: an impulse in a neuron taking the form of a brief, local, high-amplitude depolarization of the cell membrane.



- ① **Resting Potential**  
Na<sup>+</sup>/K<sup>+</sup> pump
- ② **Depolarisation**  
Voltage-gated Na<sup>+</sup> channel
- ③ **Repolarisation**  
Voltage-gated K<sup>+</sup> channel
- ④ **Resting Potential**  
Na<sup>+</sup>/K<sup>+</sup> pump

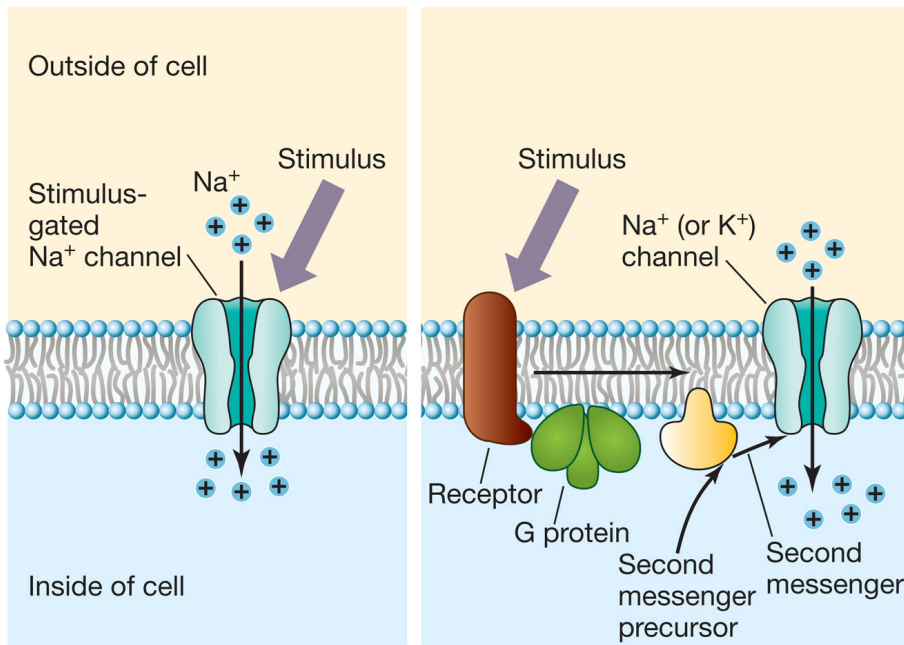
# Sending signals:



# From our lab

(A) Ionotropic receptor cell

(B) Metabotropic receptor cell



PRINCIPLES OF LIFE 2e, Figure 34.12  
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