Internet Assignment: Neurotransmitters

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Acetylcholine synthesis, distribution, & pharmacology (interesting to watch but maybe a bit more detail than you need in some spots)

<http://www.sinauer.com/neuroscience4e/animations6.1.html>

Glutamate: definitely watch this one

<http://www.sinauer.com/neuroscience4e/animations6.2.html>

Dopamine: pay more attention to dopamine

<http://www.sinauer.com/neuroscience4e/animations6.3.html>

Norepinepherine:

<http://www.sinauer.com/neuroscience4e/animations6.4.html>

Seretonin:

<http://www.sinauer.com/neuroscience4e/animations6.5.html>

Synaptic Transmission

<http://bcs.whfreeman.com/thelifewire/content/chp44/4403s.swf>

1. What is the junction between 2 neurons or between a neuron and a muscle called?
2. What type of junction is this
3. What neurotransmitter is used as an example here?
4. What initiates synaptic transmission?
5. Opening of which channels leads to depolarization
6. What ion is most responsible for triggering fusion of a vessicle in the presynaptic cell with the cell membrane to release neurotransmitter?
7. When vessivcles fuse with the presynaptic cell they trigger release of the neurotransmitter where?
8. What 2 things determine the physiological response of the postsynaptic cell?
9. How is acetylcholine inactivated
10. What happens to choline?
11. Review: where is acetyl CoA made?
12. Where else have we seen acetyl Co A

Click the conclusion tab

1. How many neurotransmitters are recognized in the human brain?
2. Synapses can be either **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** depending in which neurotransmitter is released.

A comparison of direct and indirect neurotransmitter actions

<http://www.blackwellpublishing.com/matthews/neurotrans.html>

Classic Chemical Neuron Transmission (Overview)

<http://www.mind.ilstu.edu/flash/synapse_1.swf>