Lecture 13: Active Learning Questions

1. What does ICS represent as a mnemonic to help remember the functions of the basal nuclei? What disease involves a specific neurotransmitter in the basal nuclei? Identify the neurotransmitter and 3 characteristics of the disease (use the opposite of the mnemonic!).

2. What are general classes of target organs of the sympathetic and parasympathetic branches of the autonomic nervous system? In a relaxing, digestive and housekeeping state, which branch is most active?

3. Why are nerve and muscle tissue types unique? What’s the difference between an electrical and a chemical synapse?

4. What is calcium used for in the human body? List 4 functions/uses below.

5. What do black widow spider venom, botulism toxin, curare and Sarin nerve gas have in common? What are their unique effects at molecular and cellular levels?