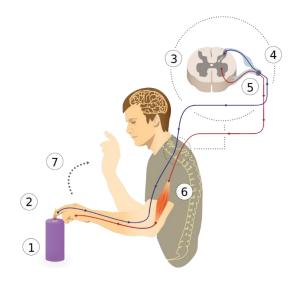**TBIOL 140:** Nerves and the neuronal action potential

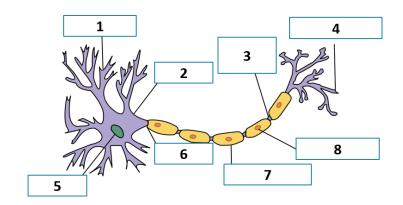**Pre-class assignment**

Please complete the following before the class:
1. Reading: Chapter 43 "Animal nervous system" pp. 900-911 from your textbook (Freeman et al. 2016)
2. Label the main components on this scheme (select the correct numbers; the answers should be submitted online before class):

Effector 1 2 3 4 5 6 7
Spinal cord 1 2 3 4 5 6 7
Finger (receiver) 1 2 3 4 5 6 7
Source of information (source of heat) 1 2 3 4 5 6 7
Action   1 2 3 4 5 6 7
Sensory neuron 1 2 3 4 5 6 7
Motor neuron 1 2 3 4 5 6 7

3. Please label the main parts of a neuron on this scheme (select the correct numbers; the answers should be submitted online before class):

Dendrite 1 2 3 4 5 6 7 8
Cell body 1 2 3 4 5 6 7 8
Node of Ranvier 1 2 3 4 5 6 7 8
Axon Terminal 1 2 3 4 5 6 7 8
Myelin sheath 1 2 3 4 5 6 7 8
Schwann cell 1 2 3 4 5 6 7 8
Nucleus 1 2 3 4 5 6 7 8
Axon 1 2 3 4 5 6 7 8

4. Based on your readings, please name (a) one thing you are very comfortable to explain, and (b) the most challenging term / concept in this topic.