SIMULATION OF AN AP

Use the PhET neuron simulation to answer the following questions.

This simulation shows a cross section of an axon to see what happens during an action potential. You may want to use the zoom feature in the upper left-hand corner to better see what is going on with the channels. You may also want to use the slow motion option in the lower left-hand corner.

3. (3 points) What are the features of the resting membrane potential (RMP) shown in the simulation? Be specific. (HINT: use some of the buttons in the "Show" box on the right to help you answer this)

4. (2 points) What happens to (a) charge and (b) ion concentration at the location you are viewing when an AP reaches that location? (HINT: the "stimulate neuron" button will cause an AP)

5. (2 points) Before the AP has reached the location you are viewing, it is shown as a pink line. What exactly is the pink line? In other words, what causes the voltage-gated Na+ channels to open?

6. (3 points) Why is the "stimulate neuron" button inoperable for a time after you propagate an AP? This is representing something that occurs in real life: what is it, and why does it occur? (HINT: assume that the "stimulate neuron" button can only generate a graded potential that barely reaches -55 mV at the trigger zone)

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