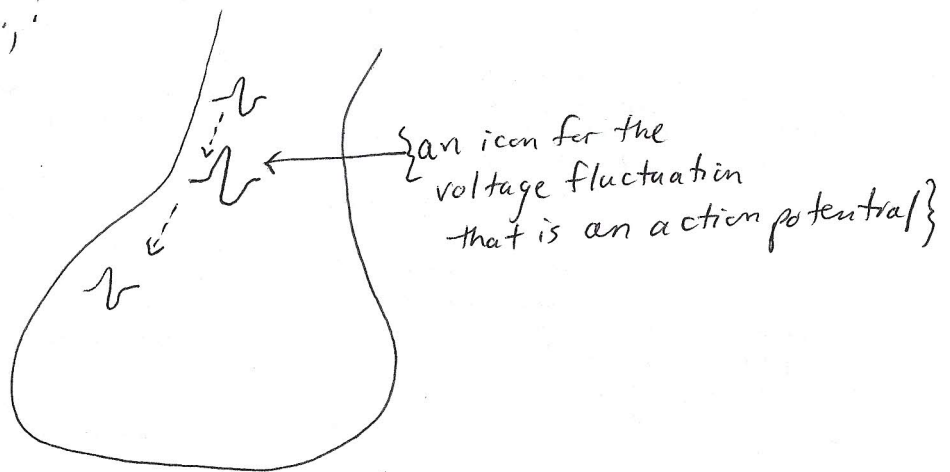
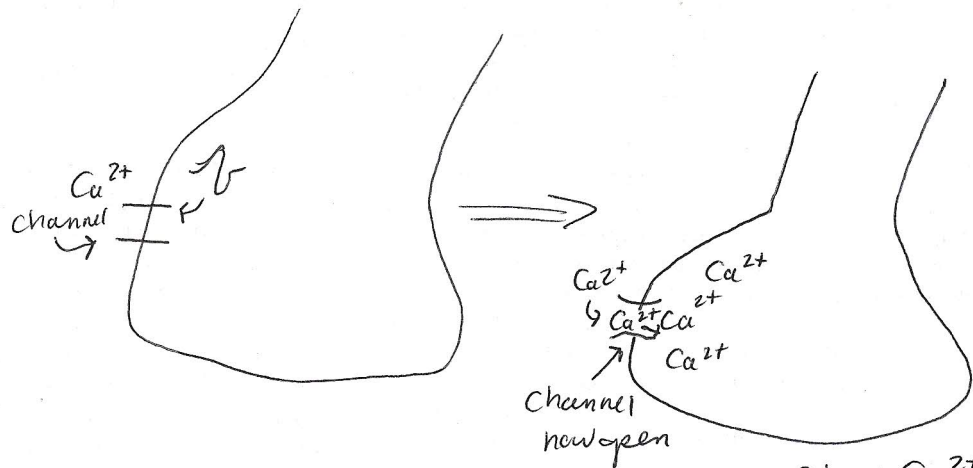


* See associated picture of a synapse's structure, with notations.*

- ① show an action potential (voltage change) arriving at the axon terminal, e.g.,:



- ② show a calcium (Ca^{2+}) ion channel opening in response to the arrival of the action potential:



Show Ca^{2+} ions entering the axon terminal

- ③ show a vesicle filled with neurotransmitter molecules migrating to the membrane of the axon terminal. This is illustrated very well on the associated picture!

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(4) Show ~~the~~ one of the vesicles fusing with the membrane of the axon terminal & releasing its contents into the gap between the axon terminal & the dendritic spine. This fusion-and-release process is also shown on the associated picture