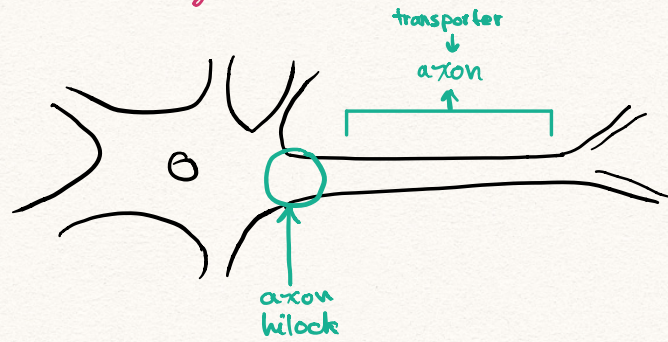


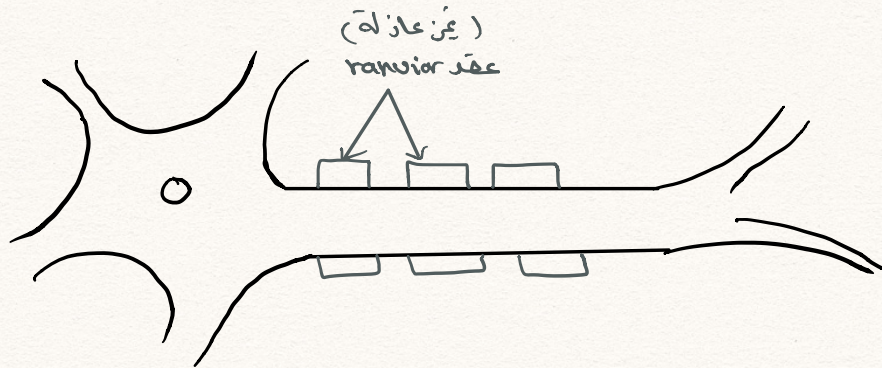
- nerve and muscle are (excitable tissue)

- neuron → cell body → dendrites

* Neuron myelinated

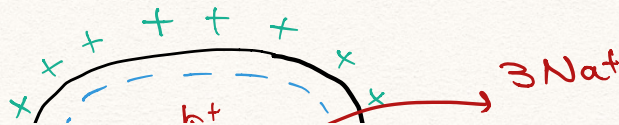


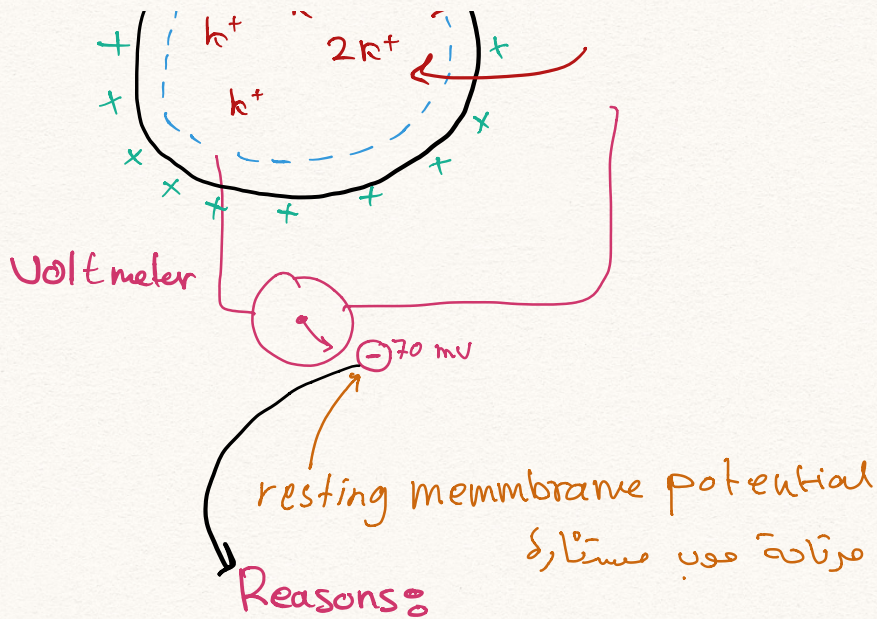
* Neuron unmyelinated



* Myline sheath :
عازلة يمنع مرور التيار

* Schwann cells covers the axons thousands of times.





- 1- All membrane accept K^+ channel name \rightarrow leak channels from high to low energy is **NOT** required.
- 2- Sodium and Potassium pump **Require** energy because it's from low to high.
- 3- large molecules such as protein and phosphate with negative charge.

Note!: Nerve cells differs in their charge from (-70) or (-80) or (-90) depends on it size