

Homework Assignment 01 (Ch. 5)

1. Ion channels for sodium and potassium are called *voltage-gated* channels. Summarize why they are called voltage-gated for opening and closing.
2. Find out what is the role of chloride and calcium ions in the generation of action potentials.
3. What is "Refractory Period" after an action potential?
4. Most local anesthetics contain procaine or tetracaine. What is the role of these chemicals and by what mechanism local anesthetics work?
5. Read about the works of Hodgkin and Huxley and what is their best contribution in neuroscience? Summarize.