

**REFRACTIVE PERIOD AND SIGNIFICANCE OF NERNST
EQUATION**

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Resting potentials and action potentials - Knowledge for medical students and physicians

Because of their opposite charges (Z value in the Nernst equation), $[K_o]$ and $[Na_o]$ are . The role of these channels in the generation and conduction of action As we discuss later, this refractory period of the Na^+ channel is important in.

Excitable Cells • Part One

Despite the organic origin of its isolation, however, K^+ 's role in biology was not the K^+ equilibrium potential (E_K) as determined by the Nernst equation (mV .. effective refractory period (ERP), but as hyperkalemia worsens, increased K^+ .

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cell permeability to those ions Nernst equation The GHK Equation Predicts from a significant change in membrane potential occurs with the movement of very few ions Action Potentials Will Not Fire During the Absolute Refractory Period.

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"1. Define the term: ABSOLUTE REFRACTORY PERIOD. 2. Why does the absolute refractory period occur? What is happening in the cell? 3. Define the term.

Electrical Signals in Neurons

The absolute and relative refractory periods limit AP freq. can calculate the new resting membrane potential using the Nernst equation (you The membrane potential would rise to +19 mV meaning the cell would most likely be depolarized !.

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This AP then has a lower amplitude than a normal AP. In contrast, when heart cells are partially depolarized by an invading action potential, these K channels close, and a large number of excitable Na channels transiently open. RefractoryPeriodsDuringtherefractoryperiods,excitablecellsareinca The internal resistance of most neurons is determined by the composition of the cytoplasm and the diameter of the cell. The ionic compositions of the cytosol and of the surrounding extracellular fluid are different. The relative refractory period is a period after one action potential is initiated when it is possible to initiate a second action potential, but only with a greater depolarization than was necessary to initiate the . Adistinguishingcharacteristicofactionpotentialsis thattheycantravel that the automaticity of SA nodal cells is relatively unaffected by changes in extracellular potassium concentration

compared to Purkinje fibers.