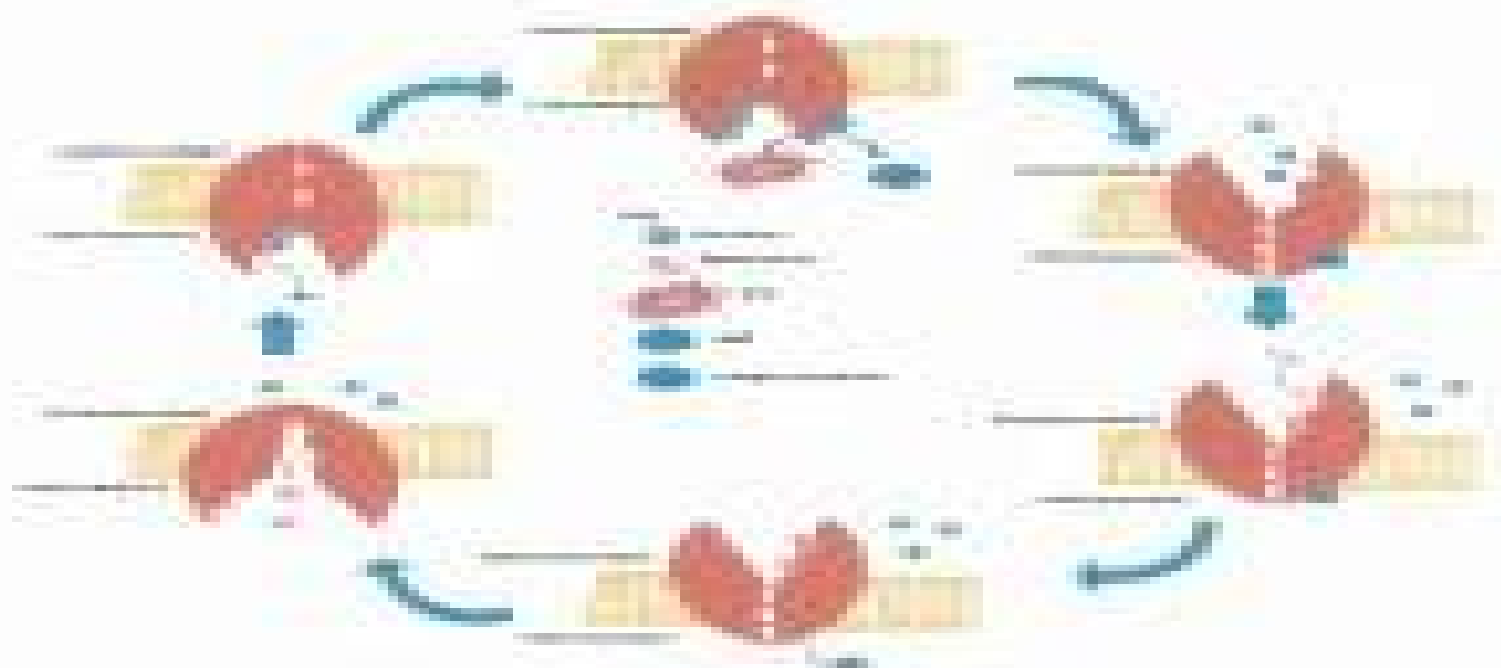


Membrane Potentials

"All dynamic systems will's spontaneously equilibrate!"

Model 1: The Sodium-Potassium Pump



Critical Thinking Questions

1. "What does the Na⁺K-ATPase do?" It pumps Na⁺ out and K⁺ in.

a. How many of these are being moved? 3 Na⁺ and 2 K⁺

b. Is this done passively or actively? actively

2. "What does the Na⁺K-ATPase do?" It pumps Na⁺ out and K⁺ in.

a. How many of these are being moved? 3 Na⁺ and 2 K⁺

b. Is this done passively or actively? actively

Membrane Potential Pogil

John Moore



Membrane Potential Pogil:

Membrane Potential-dependent Ion Channels in Cell Membrane Susumu Hagiwara, 1983 Membranes, Ions, and Impulses John Moore, 2012-12-06 Membrane Potential-Dependent Ion Channels in Cell Membrane Susumu Hagiwara, 1983 *Membrane Potential* Milan Marušić, 2019 Membrane Potential An Overview provides trends for the development of novel membranes as separators with applicable properties The authors offer a comprehensive review of the various types of polymeric materials used as separators either as an electrolyte or not in different kinds of batteries The mathematical formulations of both membrane and fluid parts are reviewed and general governing equations of the membrane are presented Also general formulations of the fluid region and interface conditions between the membrane and fluid sides are presented The concluding chapter focuses on the estimation of the plasma membrane potential in yeast by the fluorescence changes of various indicators The most used of these indicators have been DiSC3 3 and DiSC3 5 **An Introduction to Membrane Transport and Bioelectricity** John H. Byrne, Stanley G. Schultz, 1988 **The Electrogenic Sodium Pump** G. A. Kerkut, Barbara York, 1971 *Membrane Potentials* John Mouk Ort, 1924 Studies on the Membrane Potential,... Jun - Ichi Nakagawa, 1937 **The Relation Between the Membrane Potential and the Ion Content of Smooth Muscle Cells** R. Casteels, 1965 **Resting Membrane Potential** Robert Collin, 1977 Affinity Membrane Potential Masuo Aizawa, 1982 **Physiology of Excitable Membranes** J. Salánki, H. Meves, N. Chalazonitis, 2013-10-22 Physiology of Excitable Membranes contains plenary lecture and most of the papers presented at five symposia of the Section General Cell Physiology at the 28th International Congress of Physiological Sciences Organized into 44 chapters this book begins with a discussion on the ionic mechanisms of excitability of nerve cells Subsequent chapters focus on charge movement in nerve membrane calcium electrogenesis optical changes during electrogenesis synaptic transmission and modulation and transmission in autonomic ganglia **Imaging Membrane Potential** James Daniel Wilkinson, 2014 **Bioelectrochemistry of Membranes** Dieter Walz, Justin Teissié, Giulio Milazzo, 2012-12-06 Bioelectrochemistry of Membranes is the last volume in the book series Bioelectrochemistry Principles and Practice that provides a comprehensive compilation of physicochemical aspects of different biochemical and physiological processes This sixth volume introduces basic knowledge and important electrochemical and biophysical aspects of membrane potentials lipid bilayers and cell membranes The volumes of this book series serve as source books for advanced students and researchers at all levels of bioelectrochemistry Perspectives in Membrane Biophysics D. P. Agin, 1972 **Electrical Potentials in Biological Membrane Transport** Erich Heinz, 1981 The material of this volume was originally planned to be incorporated in the preceding monograph Mechanics and Energetics of Biological Transport A separate and coherent treatment of the variety of bioelectrical phenomena was considered preferable mainly for didactic reasons Usually the biologist has to gather the principles of bioelectricity he needs from different sources and on different levels The present book intends to provide these

principles in a more uniform context and in a form adjusted to the problems of a biologist rather than of a physicist or electrical engineer. The main emphasis is put on the molecular aspect by relating the bioelectrical phenomena such as the membrane diffusion potentials, pump potentials or redox potentials to the properties of the membrane concerned and as far as possible to specific steps of transport and metabolism of ions and nonelectrolytes. Little space is devoted to the familiar and widely used representation of bioelectrical phenomena in terms of electrical networks of equivalent circuits with batteries, resistances, capacities etc. In order to elucidate the basic principles the formal treatment is kept as simple as possible using highly simplified models based on biological systems. The corresponding equations are derived in two ways: kinetically i.e. in terms of the Law of Mass Action as well as energetically i.e. in terms of Nonequilibrium Thermodynamics.

A Theory for the Membrane Potential of Cells Lars Petter Endresen, Kevin Hall, Norges teknisk-naturvitenskapelige universitet, Universitetet i Trondheim, 1997 *The Effects of Hydrogen Ions on the Resting Membrane Potential of Frog Sartorius Muscle* Sheu-lun Lee, 1968 **The relation between the membrane potential and the ion content of smooth muscle cells** R. Casteels, 1965

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