

The book was found

# Membrane Permeability: 100 Years Since Ernest Overton, Volume 48 (Current Topics In Membranes)



## Synopsis

Membrane permeability is fundamental to all cell biology and subcellular biology. The cell exists as a closed unit. Import and export depend upon a number of sophisticated mechanisms, such as active transport, endocytosis, exocytosis, and passive diffusion. These systems are critical for the normal housekeeping physiological functions. However, access to the cell is also taken advantage of by toxic microbes (such as cholera or ptomaine) and when designing drugs. Ernest Overton, one of the pioneers in lipid membrane research, put forward the first comprehensive theory of lipid membrane structure. His most quoted paper on the osmotic properties of cells laid the foundation for the modern concepts of membrane function, most notably important in anesthesia. This book is designed to celebrate the centennial anniversary (in the first chapter) of Overton's work. Subsequent chapters present readers with up-to-date concepts of membrane structure and function and the challenge they pose for new explorations. Provides an historical perspective of Overton's contributions to the theory of narcosis. Presents an overview of each permeability mechanism, including active transport, endocytosis, exocytosis, and passive diffusion.

## Book Information

Series: Current Topics in Membranes (Book 48)

Hardcover: 423 pages

Publisher: Academic Press; 1 edition (May 31, 1999)

Language: English

ISBN-10: 0121533484

ISBN-13: 978-0121533489

Product Dimensions: 6 x 1 x 9 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #801,454 in Books (See Top 100 in Books) #172 in Books > Science & Math > Biological Sciences > Biophysics #362 in Books > Medical Books > Basic Sciences > Cell Biology #603 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Neuroscience

[Download to continue reading...](#)

Membrane Permeability: 100 Years Since Ernest Overton, Volume 48 (Current Topics in Membranes) Advanced Petrophysics: Volume 2: Dispersion, Interfacial Phenomena/Wettability, Capillarity/Capillary Pressure, Relative Permeability Advanced Petrophysics: Volume 1: Geology,

Porosity, Absolute Permeability, Heterogeneity, and Geostatistics Permeability Properties of Plastics and Elastomers, Third Edition (Plastics Design Library) 240 Speaking Topics: with Sample Answers (Volume 2) (120 Speaking Topics) Membrane Bioreactor Processes: Principles and Applications (Advances in Water and Wastewater Transport and Treatment) Membrane Transporters as Drug Targets (Pharmaceutical Biotechnology) The Principles of Ion-Selective Electrodes and of Membrane Transport (Studies in Analytical Chemistry) Extracorporeal Membrane Oxygenation (ECMO), An Issue of Critical Care Clinics, 1e (The Clinics: Internal Medicine) Biological Membranes: Theory of Transport, Potentials and Electric Impulses Nerve and Muscle: Membranes, Cells, and Systems Electrical Properties of Biopolymers and Membranes, Ion Channels of Excitable Membranes Cell Membranes Vascular Endothelium and Basement Membranes (Advances in Microcirculation, Vol. 9) (v. 9) South Korea since 1980 (The World Since 1980) Pepsi 100 Years: 100 Years 1911 The First 100 Years: The First 100 Years The Complete English Master: 36 Topics for Fluency: Master English in 12 Topics, Book 4 150 Basic Writing Topics with Sample Essays Q121-150 (240 Basic Writing Topics 30 Day Pack)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)