

VOLUME 2

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and
Arnost Kleinzeller**

**current
topics
in membranes
and transport**

Current Topics In Membranes And Transport Volume 1

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Current Topics In Membranes And Transport Volume 1:

Current Topics in Membranes and Transport Felix Bronner, 1970 *Bibliographies and Literature of Agriculture*, 1978
National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1992 **Membrane Structure and Mechanisms of Biological Energy Transduction** J. Avery, 2012-12-06 The problem of electron transfer phosphorylation was first formulated in 1939 by Belitser and Tsibakova I who introduced the P/O criterion and showed that this ratio is more than 1 The authors noted that such a high value of the phosphorylation coefficient suggests a fundamental difference in the mechanisms of ATP formation coupled with respiration and glycolysis since in the latter case the amount of the ATP synthesized is equal to that of the substrate utilized A lot of hypothetical schemes were put forward to explain the nature of coupling between electron transfer and phosphorylation but none of them solved the problem Only quite recently one hypothetical scheme of energy coupling viz Mitchell's chemiosmotic concept 2/3 was supported by experimental data which allow us to prefer it to alternative possibilities In this paper I shall try to substantiate the statement that oxidation and phosphorylation can be coupled via a membrane potential as was postulated by Mitchell **World List of Serials in Agricultural Biotechnology** Robert D. Warmbrodt, Diana Airozo, 1993 **Concepts and Models** D.C. Tosteson, 2012-12-06 This Volume forms the cornerstone of this series of four books on Membrane Transport in Biology It includes chapters that address i the theoretical basis of investigations of transport processes across biological membranes ii some of the experimental operations often used by scientists in this field iii chemical and biological properties common to most biological membranes and iv planar thin lipid bilayers as models for biological membranes The themes developed in these chapters recur frequently throughout the entire series Transport of molecules across biological membranes is a special case of diffusion and convection in liquids The conceptual frame of reference used by investigators in this field derives in large part from theories of such processes in homogeneous phases Examples of the application of such theories to transport across biological membranes are found in Chapters 2 and 4 of this Volume In Chapter 2 Sten Knudsen emphasizes a statistical and molecular approach while in Chapter 4 Sauer makes heavy use of the thermodynamics of irreversible processes Taken together these contributions introduce the reader to the two sets of ideas which have dominated the thinking of scientists working in this field Theoretical consideration of a more special character are also included in several other Chapters in Volume I For example Ussing Chapter 3 reworks the flux ratio equation which he introduced into the field of transport across biological membranes in 1949 *Medical and Health Care Books and Serials in Print*, 1997 **Proceedings of the Society for Experimental Biology and Medicine** Society for Experimental Biology and Medicine (New York, N.Y.), 1903 List of members in each volume **Books in Print Supplement**, 1994 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **Books in Print**, 1994 *The Publishers Weekly*, 1972 Brigham Young University Periodicals and Serials Catalog J. Reuben Clark, Jr., Library, 1974 **Subject Guide to Books in Print**

,2001 Publishers' Trade List Annual, 1980 Bobbs-Merrill Educational Co,1980 **Doklady** Akademii nauk
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