

BOOK REVIEWS

Structure and Function of Energy-Transducing Membranes

Edited by K. Van Dam and B. F. Van Gelder (BBA Library, Vol. 14) Pp. 342 Elsevier Scientific Publishing Company, Amsterdam and New York, 1978. \$41.95 or Dfl. 103.00

This book is a compendium of papers submitted by their authors to an International Symposium (August 1977) and held in Amsterdam to honour the 60th birthday of Professor E. C. Slater.

Since the number of meetings, congresses and symposia held per annum must be determined by Government and Foundation commitment to them it is a pleasant distraction at no extra cost for one to be dedicated to a significant birthday of an eminent scientist.

The book gives an accurate reflection of the state of the field of bioenergetics, it is timely, being published within six months of the congress. Unfortunately this volume is not the only proceedings of a bioenergetics-related conference held in 1977 to be published. The books resulting from the meetings at Spetsan and Bari are to be equally recommended but the overlap between the three volumes is extensive. The overlap is understandable, perhaps not even the British Chances of the world can present three new and significant papers in a single summer conference period. However there is room for a greater degree of liaison between the organisers of the different conferences. The Bari meetings were the first in the arena and are the most established, others should take their cue from these. I am not suggesting that there are too many conferences but that the publication of invited papers should not proceed as a matter of course.

The volume is a mixture of that which is both best and worst in bioenergetics. There is an excellent series of papers on cytochrome oxidase by Chance, Albracht, Van Gelder, Margolash, Schatz, and their co-workers and an interesting paper by Garland on a different type of terminal "oxidase" — nitrate reductase. There are many other individual papers which are worthy of note, one in particular which caught my eye was an update on the use of ANS⁺ as a probe for membrane potential from Radda's group.

Is this a book worth buying? For a biochemist without a specific interest in the field of Bioenergetics the answer is probably no. A bioenergeticist will certainly want to spend a day or two perusing it but if he has either of the two aforementioned overlapping tomes he will probably not consider it a necessary purchase.

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Preparation and Characterisation of Mammalian Plasma Membranes

By W. Howard Evans. Pp. 266. North-Holland Publishing Co., Amsterdam, 1978. Being the pocket edition of Volume 7 Part 1 of the series *Laboratory Techniques in Biochemistry and Molecular Biology*, edited by T. S. Work and E. Work. \$26.00 or Dfl. 60.00. Paperback.

This is an extremely useful book for workers on animal cell membranes. As the title states it is directed towards the plasma membrane, but the book also contains much information of general application to other membrane systems.

There are four main sections, two of which are largely confined to the plasma membrane and two of wider interest. Of the first pair, one chapter deals with the general problems of isolating and purifying the plasma membrane and the second consists of more detailed aspects of the isolation and sub-fractionation of plasma

membranes from a number of cell types e.g. liver, kidney, intestine, tissue culture cells. The other two chapters, although they also relate to the plasma membrane, are of a more general application, for the one is a critical discussion of methods of cell breakage and the other a survey of a wide range of membrane markers.

All the chapters are thoughtfully written and provide an up to date source of references as well as much direct practical information without degenerating into a cookery book. Several tables collate data which is otherwise dispersed in the literature and particularly welcome, especially to newcomers to the field, is a list of commercial sources for the various pieces of apparatus and chemicals mentioned in the text.

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Mechanisms in Bacterial Toxicology

By Alan W. Bernheimer. Pp. 262. John Wiley and Sons, New York and London, 1976. A volume in the Developmental Medical Microbiology and Infectious Diseases Series. £16.50 or \$27.95.

A single molecule of diphtheria toxin can kill a cell. Many other bacterial toxins have an activity that makes even enzymes look like sluggards. Only hormones are as active as that and it has become clear that, in a mechanistic sense, several toxins are very like hormones. This book explains why toxins have at last joined the mainstream of biochemistry.

Cholera toxin for example is a simple protein which is responsible for the massive diarrhoea that is cholera. Its action is a simple one: it activates the adenylate cyclase of eukaryotic cells in much the same way as many hormones do except that it has very little if any specificity for particular tissues. One subunit of the toxin binds to a receptor on the cell surface (a ganglioside) and another subunit with different structure activates the cyclase inside the cell, probably by ADP-ribosylation of a GTP-binding regulatory protein. Intriguingly, diphtheria toxin, although it inactivates protein synthesis, a very different area of metabolism, has a remarkably similar strategy with two components one of which catalyses the ATP-ribosylation of a GTP-binding protein, elongation factor 2.

The early chapters of the book are the most interesting to the general biochemist. The first two explain the mechanism of diphtheria toxin and its complicated genetics, (it is the product not of the bacterial genome but of a bacteriophage). The third chapter is about cholera and similar toxins. It is written by R. A. Finkelstein in his usual lucid and lively way, but suffers even more than other chapters from the tardiness with which this book, published in 1976, has been sent out for review. Several important developments have occurred since it was written.

The next few chapters are about toxins that affect cell membranes directly, for example the haemolysins. Although some of them read a bit like a catalogue, there is much interesting information and useful generalisations can be made. In some cases there has been remarkably little discussion so far between toxin experts and others working in the field of membrane biochemistry, there should be more.

There follows a chapter on exfoliative toxin and on enterotoxins, including that of *E. coli* which is remarkably similar to cholera toxin although the bacteria are very different. The book concludes with two chapters interesting to the specialist, but less so to the general reader and perhaps out of place in this book.

Most of this book is well written and interesting, it would make a good introduction for students wanting to know something of the bacterial toxins, but as it is getting a bit out of date they might be better off with reviews.

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Paulus Aloysius Matheus Michels



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Structure and Function of Energy-transducing Membranes Edward Charles Slater, Koninklijke Nederlandse Akademie van Wetenschappen. Commissie voor de Biochemie en de Biofysica, 1977 **The Enzymes of Biological Membranes** Anthony Martonosi, 2013-03-09 In the first edition of The Enzymes of Biological Membranes published in four volumes in 1976 we collected the mass of widely scattered information on membrane linked enzymes and metabolic processes up to about 1975 This was a period of transition from the romantic phase of membrane biochemistry preoccupied with conceptual developments and the general properties of membranes to an era of mounting interest in the specific properties of membrane linked enzymes analyzed from the viewpoints of modern enzymology The level of sophistication in various areas of membrane research varied widely the structures of cytochrome c and cytochrome b were known to atomic detail while the majority of membrane linked enzymes had not even been isolated In the intervening eight years our knowledge of membrane linked enzymes expanded beyond the wildest expectations The purpose of the second edition of The Enzymes of Biological Membranes is to record these developments The first volume describes the physical and chemical techniques used in the analysis of the structure and dynamics of biological membranes In the second volume the enzymes and metabolic systems that participate in the biosynthesis of cell and membrane components are discussed The third and fourth volumes review recent developments in active transport oxidative phosphorylation and photosynthesis

Biochemistry and Genetics of Yeast Metry Bacila, 2012-12-02 Biochemistry and Genetics of Yeasts Pure and Applied Aspects consists of papers presented at a symposium organized by the Academia Brasileira de Ciencias held at the Universidade de Sao Paulo on December 4 10 1977 Organized into seven parts this book reveals relevant and exciting developments in the areas of yeast genetics respiration and fermentation metabolic regulation cell wall structure synthesis of macromolecules and transport It demonstrates the presence of great progress in the knowledge of structure and functions of the yeast mitochondrial DNA This book will be useful to scientific institutes and university laboratories interested in the biochemistry genetics and technology of yeasts **Energy Conservation in Biological Membranes** G. Schäfer, M. Klingenberg, 2012-12-06 *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 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

Supramolecular Enzyme Organization Peter Friedrich, 2014-05-20 *Supramolecular Enzyme Organization Quaternary Structure and Beyond* provides a comprehensive discussion of enzyme interactions. It attempts to place conceptually related phenomena in a common perspective by first scrutinizing enzyme interactions at the quaternary level and then moving on towards higher orders of organization. The book begins with a discussion of the hierarchy of enzymes covering the structure of monomeric enzymes, enzyme structures beyond the monomeric stage and protein-protein interactions. Separate chapters cover the chemistry of protein associations, the quaternary structure of enzymes, multienzyme systems, multienzyme complexes and conjugates, the association of enzymes with cellular structures and metabolite compartmentation. The final chapters discuss trends in the study of enzyme systems and the dialectics of enzymology. This book is intended not for the specialist who knows much more about the individual questions than the text offers but rather for the general biochemical reader interested in enzyme organization. There is practically no mathematics involved. Instead, quite elementary things are described so that students and biologists with less background knowledge on enzymes will be able to join in.

Bioenergetics, 2011-09-22 *Bioenergetics: Oxidases and Related Redox Systems* Tsso E. King, Howard S. Mason, Martin Morrison, 2013-10-22 *Oxidases and Related Redox Systems* is a collection of papers from the Third International Symposium on Oxidases and Related Reduction Systems held in Albany, New York, on July 3-7, 1979. This book deals with the oxygen and peroxide activating enzymes field. The book addresses electron transfer related to oxygen biochemistry by comparing quantum semiclassical and classical methods of electron transfer reactions. Several papers then discuss the active and toxic states of oxygen and superoxide as the discovery of superoxide dismutase activity of erythrocuprein can provide a means to studying oxygen reaction in biological systems. One paper then compares the active sites of molluscan and arthropodan hemocyanins which are known as reversible oxygen carriers. The result of this study is presented in a table. Other papers discuss the flavin catalyzed reactions of molecular oxygen and the implications of the physiological function of D-amino acid oxidase from inhibition studies. The book then explains the role of carbon monoxide in the reaction mechanism of oxygen with cytochrome oxidase. This collection will prove beneficial for research students and professors in the field of biochemistry and chemical physics.

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Colloquium - Gesellschaft fur Biologische Chemie Gesellschaft für Physiologische Chemie,1978 **Directions**,1979 **Subject Guide to Books in Print** ,1983 *Medical Books and Serials in Print*, 1979 R. R. Bowker LLC,1979-05

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