



Electron donor: Quinone  
oxidoreductase

Quinol: electron carrier  
oxidoreductase

Electron carrier: final  
electron acceptor  
oxidoreductase

# Energy Transduction In Biological Membranes

**Vladimir P. Skulachev**



## **Energy Transduction In Biological Membranes:**

Energy Transduction in Biological Membranes William A. Cramer, David B. Knaff, 2012-12-06 Energy Transduction in Biological Membranes was primarily designed for graduate courses in bioenergetics Not only does it discuss basic principles and concepts central to modern membrane biochemistry biophysics and molecular biology but also 1 the components and pathways for electron transport and hydrogen ion translocation and 2 the utilization of electrochemical ion gradients The book is unique in presenting a comparative treatment of respiratory and photosynthetic energy transduction and in using protein sequence data coupled with physical concepts to discuss the mechanisms of energy transducing proteins **Energy**

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Transduction in Biological Membranes William A. Cramer, David B. Knaff, 1991-12-01 *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 Information and Energy

Transduction in Biological Membranes C. Liana Bolis, Ernst J. Helmreich, Hermann Passow, 1985-01 **Information and Energy Transduction in Biological Membranes**, 1984 **Membrane Structure and Mechanisms of Biological Energy Transduction** J. Avery, 1974-04-01 **Energy Conservation in Biological Membranes** Gesellschaft für Biologische Chemie, 1978 *Energy Conservation in Biological Membranes* G. Schäfer, M. Klingenberg, 2011-12-27 The topic of the 29th Mosbach Colloquium Energy Transduction in Biological Membranes is one of the most formidable problems in biology Its solution in molecular terms has proved to be a very difficult task for a whole generation of biochemists The Mosbach Colloquia had so far not yet covered this subject In former Mosbach Colloquia some contributions were closely

related such as the lecture by E C Slater on the mitochondrial respiratory chain presented 25 years ago A broader coverage of this subject was given in the Mosbach Colloquia on Biochemistry of Oxygen in 1968 and on Inhibitors Too Late in Cell Research in 1969 which contained several lectures related to bioenergetics Today progress and understanding of the energy transduction in biological membranes had advanced to the stage where we can formulate reliable theories on many facets of the energy transduction process On the other hand the primary energy conservation steps are as controversial as ever and challenge the field for an all out effort for resolving these burning problems The 29th Mosbach Colloquium has given a broad and vivid picture of this situation illustrating the progress and also the controversial problems currently debated

**Information and Energy Transduction in Biological Membranes** Liana Bolis, Ernst J. M. Helmreich, Hermann Passow, 1984 The Biological Chemistry of the Elements J. J. R. Frausto da Silva, Robert Joseph Paton Williams, 2001-08-16 This text describes the functional role of the twenty inorganic elements essential to life in living organisms *Ion Interactions in Energy Transfer Biomembranes* G. C. Papageorgiou, J. Barber, S. Papa, 2012-12-06 The Expert Committee on Biomaterials and Biotechnology for the European and the North American Region was founded by the General Assembly of UNESCO at its 21st Session in 1981 The Committee comprises a Coordinating Group and four working Groups defined in the following scientific areas Group I Proteins source structure and function Group II Nucleic acids the hereditary materials Group III Immune materials and mechanisms Membranes and transport in biosystems Group IV In fulfilment of one of the objectives of the Committee which have been adopted by the General Assembly of UNESCO in 1981 namely the intensification of the exchange of scientific information on biomaterials and biotechnology working Group IV organized an international workshop on Ion Interactions in Energy Transport Systems which was convened in Athens Greece from 8 to 12 April 1985 Scientific papers presented at that workshop make up the chapters presented in this volume The present volume focusses on natural and artificial membranes that are involved in energy transduction Several chapters are devoted to membranes and membrane components that convert and utilize light such as the thylakoid membrane of oxygenic photosynthetic organisms eukaryotic and prokaryotic the chromatophore membrane of nonoxygenic photosynthetic bacteria and the purple membrane of the halophilic bacteria Other systems examined include the mitochondrial membranes and their adenine nucleotide carrier the plasma membrane of animal cells and lipid bilayer vesicles either reconstituted or not with enzymes **Type-B Cytochromes: Sensors and Switches** J.L. Kiel, 2018-01-10 This book describes cellular level sensors that act as switches turning on gene expression and other metabolic processes necessary for cell survival and differentiation These responses can also initiate programmed cell death or activate latent human immunodeficiency virus or animal leukemia viruses These redox sensors are nonspecific in sensitivity but specific in response Unlike ligand antiligand type specific sensors they respond to ionizing and ultraviolet radiations pH gradients heat light electric and magnetic fields redox chemicals mechanical stress and other nonspecific stressors The sensors are type b cytochromes including NADPH oxidases

NO synthases and nitrogen oxide reductases The intense radiation of early pre biotic earth may have been the evolutionary driving force for the development of their common ancestor

**Biophysical Thermodynamics of Intracellular Processes**  
 Lev A. Blumenfeld, Alexander N. Tikhonov, 2012-12-06 This book is aimed at a large audience from students who have a high school background in physics mathematics chemistry and biology to scientists working in the fields of biophysics and biochemistry The main aim of this book is to attempt to describe in terms of physical chemistry and chemical physics the peculiar features of machines having molecular dimensions which play a crucial role in the most important biological processes viz energy transduction and enzyme catalysis One of the purposes of this book is to analyze the physical background of the high efficiency of molecular machines functioning in the living cell This book begins with a brief review of the subject Chapter 1 Macro molecular energy transducing complexes operate with thermal chemical and mechanical energy therefore the appropriate framework to discuss the functioning of biopolymers comes from thermodynamics and chemical kinetics That is why we start our analysis with a consideration of the conventional approaches of thermodynamics and classical chemical kinetics and their application to the description of bioenergetic processes Chapter 2 Critical analysis of these approaches has led us to the conclusion that the conventional approaches of physical chemistry to the description of the functioning of individual macromolecular devices in many cases appear to be incomplete This prompted us to consider the general principles of living machinery from another point of view

**Biochemical Mechanisms in Heart Function**  
 Ernst-Georg Krause, Roland Vetter, 2012-12-06 This special issue of Molecular and Cellular Biochemistry good source of information in this regard contains original research papers as well as invited reviews We wish to thank all of the contributors for their help and dedicated on the occasion of the 40th anniversary of the in cooperation We also wish to thank Mrs Verona Kuhle for auguration of the Heart Research Group in Berlin Buch that her secretarial help We are grateful to Dr Naranjan S Dhalla today forms a part of the Max Delbrück Center for Molecular Editor in Chief of Molecular and Cellular Biochemistry for his personal interest and encouragement and for agreeing to publish this of the Heart Research Group and for 21 years its head issue in honor of Albert Wollenberger The papers in this issue are written by researchers working in the field of cardiovascular research who together with ERNST GEORG KRAUSE and ROLAND VETTER Albert Wollenberger share the belief that an integrative approach Max Delbrück Center for Molecular Medicine publication of advances in molecular and cellular biology will Robert Rossle StraBe 10 lead to new concepts for treatment and prevention of cardiovascular diseases We hope that this special will serve as a Gennany ALBERT WOLLENBERGER Professor Ph D Harvard Dr Sc Med Berlin The dedication is accorded to Prof

*General Photobiology*  
 Donat-Peter Hader, 2013-10-22 Photobiology is an interdisciplinary science which has undergone a dramatic development in the past few years This comprehensive new textbook brings together all the information required by workers and students in the field from the atomic to the organismal level The initial chapters comprise a comprehensive introduction

to the terminology and include a detailed description of the photochemical reactions involved The main part of the book covers all the classical photochemical topics and whilst not trying to be encyclopedic in coverage does present numerous relevant examples By bringing together the wide breadth of knowledge involved in the understanding of photobiology this book will be of immense use to all those involved *Membrane Bioenergetics* Vladimir P. Skulachev, 2013-11-11 Membrane bioenergetics is one of the most rapidly growing areas within physico chemical biology Main aspects treated in this book include energy conservation and utilization by membrane linked molecular mechanisms such as intracellular respiration photosynthesis transport phenomena rotation of bacterial flagella and the regulation of heat production Energy Transfer Dynamics Terence William Barrett, Herbert A. Pohl, 2012-12-06 On three occasions and at different locations conferences were held to honor the eightieth birthday of Professor Herbert Frohlich on the 18th December 1985 in Liverpool England on the 14th February 1986 in Stuttgart Germany and on the 8th March 1986 on the Palm Coast Florida This Festschrift is a compilation of the papers of those conferences Frohlich s choice of problems from the earliest days was couched in the physics of intrinsically interacting systems of excitation One example in which he set the course of research which is still followed concerned dielectric breakdown developed from the 1930 s over several decades The interacting systems are the electrons receiving energy from an electric field and lattice atom motion taking energy from the electrons via electron phonon interaction hence heat dissipation There is a threshold field above which the latter cannot keep up with the former and the combined system electrons plus phonons runs away that is to say collectively it switches to a new state

**Fundamentals of Biophysics** Andrey B. Rubin, 2014-09-11 Biophysics is a science that comprises theoretical plotting and models based on contemporary physicochemical conceptions They mirror physical specificity of the molecular organization and elementary processes in living organisms which in their turn form the molecular basis of biological phenomena Presentation of a complete course in biophysics requires vast biological material as well as additional involvement of state of the art concepts in physics chemistry and mathematics This is essential for the students to perceive the specific nature and peculiarity of molecular biological processes and see how this specificity is displayed in biological systems This is the essence of the up to date biophysical approach to the analysis of biological processes Fundamentals of Biophysics offers a complete thorough coverage of the material in a straightforward and no nonsense format offering a new and unique approach to the material that presents the appropriate topics without extraneous and unneeded filler material

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