

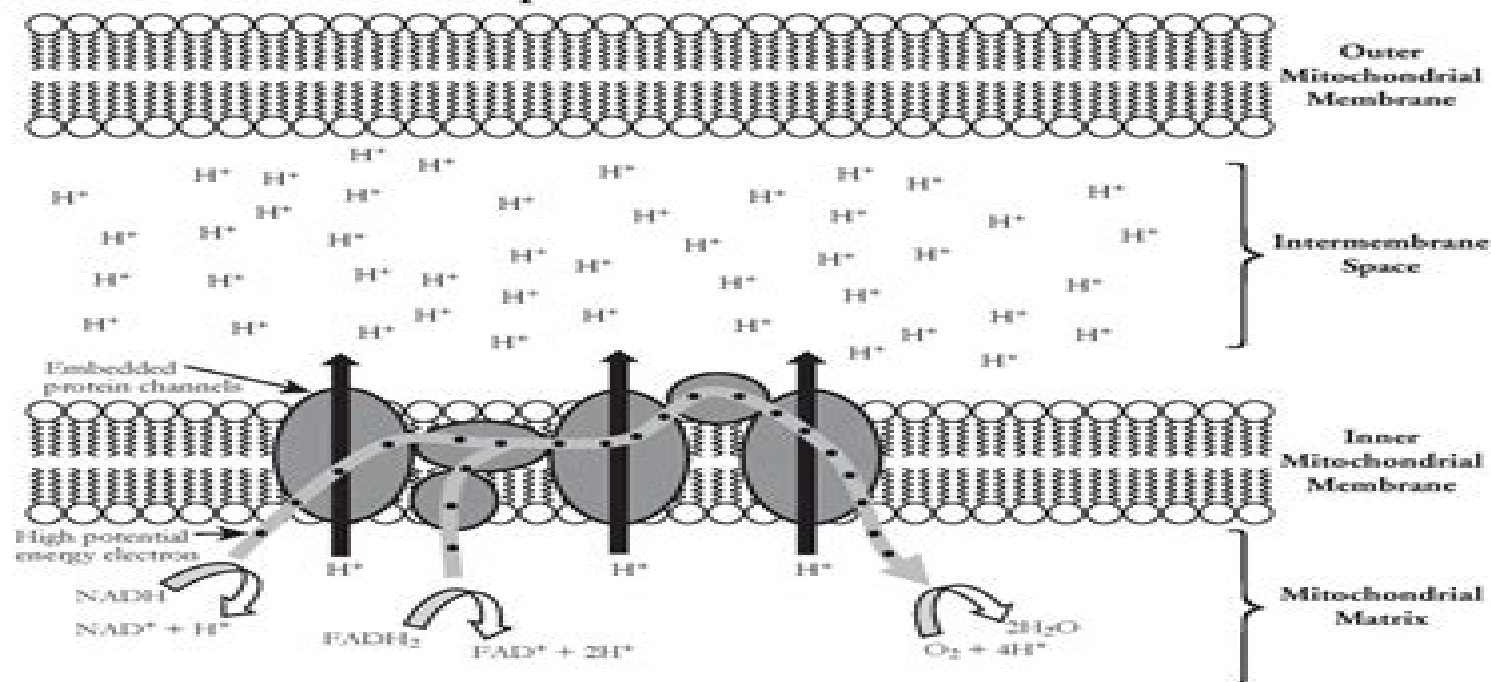
Oxidative Phosphorylation

How are the electrons in NADH and FADH₂ used to make ATP during cellular respiration?

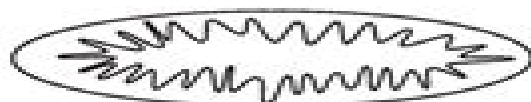
Why?

The final phase of cellular respiration is **oxidative phosphorylation**. Both the electron transport chain and chemiosmosis make up oxidative phosphorylation. During this phase of cellular respiration, all of the NADH and FADH₂ that were produced in other phases of cellular respiration (glycolysis, the link reaction, and Krebs cycle) are used to make ATP. The process occurs in the protein complexes embedded in the inner mitochondrial membrane.

Model 1 – Electron Transport Chain

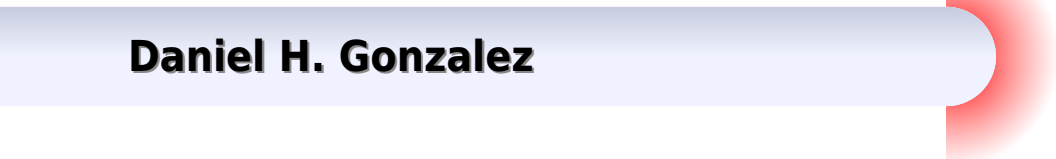


1. Consider the membranes illustrated in Model 1. Circle a section of the mitochondria below where this site might be located.



Oxidative Phosphorylation Pogil Answers Biology

Daniel H. Gonzalez



Oxidative Phosphorylation Pogil Answers Biology:

Oxidative Phosphorylation in Health and Disease Jan A.M. Smeitink, 2007-03-06 Mitochondrial diseases are often hard to diagnose. From the time they were first researched without animal models, patients of mitochondrial diseases were of equal interest to both clinical and basic scientists. With the new research done, this book includes updates on the normal structure, function, and molecular biology of the mitochondrial respiratory chain, information on traditional diagnostic methodologies, and an overview of the diagnostic promise of new technologies. The hypermetabolism of Leigh disease, although only seen twice, is also studied. There are critical reviews of symptoms and signs associated with syndromes, as well as updates on the genetic defects of either the mitochondrial or the nuclear genome responsible for many disorders.

Biological Energy Conservation Colin William Jones, 2012-12-06 The student of biological science in his final years as an undergraduate and his first years as a graduate is expected to gain some familiarity with current research at the frontiers of his discipline. New research work is published in a perplexing diversity of publications and is inevitably concerned with the minutiae of the subject. The sheer number of research journals and papers also causes confusion and difficulties of assimilation. Review articles usually presuppose a background knowledge of the field and are inevitably rather restricted in scope. There is thus a need for short but authoritative introductions to those areas of modern biological research which are either not dealt with in standard introductory textbooks or are not dealt with in sufficient detail to enable the student to go on from them to read scholarly reviews with profit. This series of books is designed to satisfy this need. The authors have been asked to produce a brief outline of their subject assuming that their readers will have read and remembered much of a standard introductory textbook on biology. This outline then sets out to provide, by building on this basis, the conceptual framework within which modern research work is progressing and aims to give the reader an indication of the problems, both conceptual and practical, which must be overcome if progress is to be maintained.

Oxidative Phosphorylation in Health and Disease Jan A. M. Smeitink, 2004 Biological oxidation U Satyanarayana, 2014-11-07 Biological oxidation

Mitochondrial Oxidative Phosphorylation Bernhard Kadenbach, 2012-06-23 This book will describe the nuclear encoded genes and their expressed proteins of mitochondrial oxidative phosphorylation. Most of these genes occur in eukaryotic cells but not in bacteria or archaea. The main function of mitochondria, the synthesis of ATP, is performed at subunits of proton pumps, complexes I, III, IV, and V, which are encoded on mitochondrial DNA. The nuclear encoded subunits have mostly a regulatory function. However, the specific physiological functions of the nuclear encoded subunits of complexes I, III, IV, and V are mostly unknown. New data indicates that they are essential for life of higher organisms, which is characterized by an adult life without cell division postmeiotic stage in most tissues after the juvenile growth. For complex IV, cytochrome c oxidase, some of these subunits occur in tissue specific subunits IV, VIa, VIb, VIIa, VIII, developmental specific subunits IV, VIa, and VIIa, as well as species specific isoforms. Defective genes of some subunits were shown to induce

mitochondrial diseases Mitochondrial genes and human diseases will also be covered *Oxidative Phosphorylation* Edward Charles Slater,1958 *Biogenesis of the oxidative phosphorylation machinery in plants. From gene expression to complex assembly* Daniel H. Gonzalez,2014-09-10 Mitochondrial biogenesis is an extremely complex process A hint of this complexity is clearly indicated by the many steps and factors required to assemble the respiratory complexes involved in oxidative phosphorylation These steps include the expression of genes present in both the nucleus and the organelle intricate post transcriptional RNA processing events the coordinated synthesis transport and assembly of the different subunits the synthesis and assembly of co factors and finally the formation of supercomplexes or respirasomes It can be envisaged and current knowledge supports this view that plants have evolved specific mechanisms for the biogenesis of respiratory complexes For example expression of the mitochondrial genome in plants has special features not present in other groups of eukaryotes Moreover plant mitochondrial biogenesis and function should be considered in the context of the presence of the chloroplast a second organelle involved in energetic and redox metabolism It implies the necessity to discriminate between proteins destined for each organelle and requires the establishment of functional interconnections between photosynthesis and respiration In recent years our knowledge of the mechanisms involved in these different processes in plants has considerably increased As a result the many events and factors necessary for the correct expression of proteins encoded in the mitochondrial genome the cis acting elements and factors responsible for the expression of nuclear genes encoding respiratory chain components the signals and mechanisms involved in the import of proteins synthesized in the cytosol and the many factors required for the synthesis and assembly of the different redox co factors heme groups iron sulfur clusters copper centers are beginning to be recognized at the molecular level However detailed knowledge of these processes is still not complete and especially little is known about how these processes are interconnected Questions such as how the proteins once synthesized in the mitochondrial matrix are inserted into the membrane and assembled with other components including those imported from the cytosol how the expression of both genomes is coordinated and responds to changes in mitochondrial function cellular requirements or environmental cues or which factors and conditions influence the assembly of complexes and supercomplexes are still open and will receive much attention in the near future This Research Topic is aimed at establishing a collection of articles that focus on the different processes involved in the biogenesis of respiratory complexes in plants as a means to highlight recent advances In this way it intends to help to construct a picture of the whole process and not less important to expose the existing gaps that need to be addressed to fully understand how plant cells build and modulate the complex structures involved in respiration **Natural and Engineered Strategies that Modulate Oxidative Phosphorylation Defects Associated with Mitochondrial DNA Mutations** Sarika Srivastava,2005

Studies on Oxidative Phosphorylation in Mitochondrial Systems Lenola Harlene Wellman,1952 *Oxidative Phosphorylation* Paul Reilly,1998-09 **Biological Energy Conservation: Oxidative Phosphorylation; 2nd Ed** Colin

William Jones,1981 **Oxidative Phosphorylation in Health and Disease** Jan A.M. Smeitink,2008-11-01 Mitochondrial diseases are often hard to diagnose From the time they were first researched without animal models patients of mitochondrial diseases were of equal interest to both clinical and basic scientists With the new research done this book includes updates on the normal structure function and molecular biology of the mitochondrial respiratory chain information on traditional diagnostical methodologies and an overview of the diagnostic promise of new technologies The hypermetabolism of Luft disease although only seen twice is also studied There are critical reviews of symptoms and signs associated with syndromes as well as updates on the genetic defects of either the mitochondrial or the nuclear genome responsible for many disorders Studies on the Efficiency of Oxidative Phosphorylation in Escherichia Coli B Craig Warren Rice,1980 **On the Biological Transfer of Energy. A Theoretical Study of Oxidative Phosphorylation and High Energy Phosphates** Barbro Grabe,1960 **Oxidative Phosphorylation in Liver Mitochondria** Sylvia Panagos Lianides,1959 **Oxidative Phosphorylation by Pea Seedling Mitochondria** Nestor Rosa,1960 **Oxidative Phosphorylation in Mitochondria During Embryonic Development** Anna Miriam Henson,1967 Some Factors Influencing the Efficiency of Oxidative Phosphorylation Anne Cathrine Thaulow Riiber,1958 Oxidative Phosphorylation in Plant Mitochondria Harold Christopher Passam,King's College London. Department of Plant Science,1971 **Evidence for a Soluble High Energy Intermediate of Oxidative Phosphorylation in Mitochondria from Blowflies** Albert Yung-Kwang Sun,1967

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