

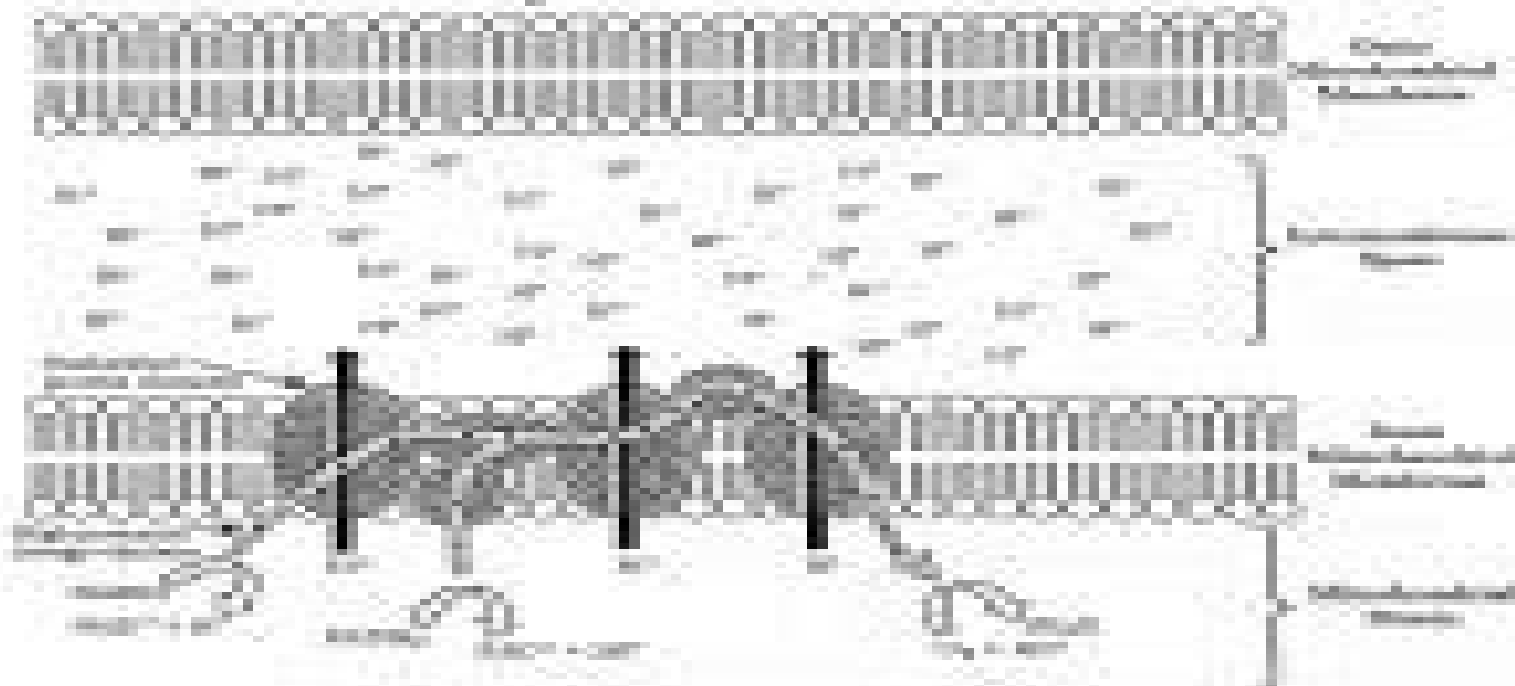
Oxidative Phosphorylation

How does the membrane potential ($\Delta\psi$) and the H^+ gradient make ATP during cellular respiration?

What?

The synthesis of cellular respiration is oxidative phosphorylation. Both the electron transport chain and chemiosmosis make up oxidative phosphorylation. During this phase of cellular respiration, about 34 NADH and 14 FADH_2 are sent produced to three phases of cellular respiration: glycolysis, the Krebs cycle, and chemiosmosis are used to make ATP. The proton motive force provides energy embedded in the inner mitochondrial membrane.

Model 1 – Electron Transport Chain



1. Consider the chemiosmosis diagramming model. Clearly illustrate of the chemiosmosis before when this might be found.



Oxidative Phosphorylation Pogil Answers Biology

Barbro Grabe



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.

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 in Health and Disease Jan A. M. Smeitink, 2004

Biological oxidation U Satyanarayana,2014-11-07 Biological oxidation Biological oxidation 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 *Studies on Oxidative Phosphorylation in Mitochondrial Systems* Lenola Harlene Wellman,1952 Oxidative Phosphorylation Paul Reilly,1998-09 **Natural and Engineered Strategies that Modulate Oxidative Phosphorylation Defects Associated with Mitochondrial DNA Mutations** Sarika Srivastava,2005 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 diagnostic 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.

Biological Energy Conservation: Oxidative Phosphorylation; 2nd Ed Colin William Jones, 1981

Oxidative Phosphorylation in Liver Mitochondria Sylvia Panagos Lianides, 1959

Oxidative Phosphorylation by Pea Seedling Mitochondria Nestor Rosa, 1960

Evidence for a Soluble Intermediate of Oxidative Phosphorylation Isolated from Cabbage Mitochondria Morris Alfred Johnson, 1966

An intermediate of oxidative phosphorylation was apparently solubilized from cabbage mitochondria. The method of solubilization used primarily was extraction of a mitochondrial acetone powder with 0.1 M glycylglycine, pH 7.4, at 4°C. The intermediate betrayed its presence by causing the transfer of Pi^{32} to ADP with the resultant formation of ATP- P^{32} or G-6- P^{32} when the hexokinase trap was used. The formation of ATP- P^{32} or G-6- P^{32} was determined as NE- P^{32} (non-extractable P^{32}) by the isobutanol-benzene extraction procedure. The transfer reaction used for assay took place in a completely soluble system and both ADP and extract were required. The historical development of an isolation procedure and of a suitable assay system were described. Initial attempts to detect an intermediate were directed at introducing the radioactive label of Pi^{32} while the mitochondria were still intact or during the extraction of the acetone powder. At these stages of the work, the assay was also conducted during the extraction of the acetone powder by inclusion of the acceptor system ADP, hexokinase, and glucose and Mg in the extraction medium. Most of the significant facts were obtained through the use of a clarified extract which had not been exposed to Pi^{32} previously. Although it was possible to centrifuge the crude extract at 105,000 X g for 90 min without sedimenting the component necessary for the transfer reaction, this high speed centrifugation was not employed on a routine basis. The alleged intermediate was apparently proteinaceous as indicated by its response to heat, aging, dialysis inhibitors, and trichloroacetic acid (TCA). The transfer activity of the extract was lost upon incubation at 50°C for five min, upon aging at 4°C upon the addition of TCA, and in the presence of 2×10^{-5} M p-chloromercuribenzoic acid (PCMB). Although non-dialyzable, the extract was inactivated by dialysis, probably due to the loss of an essential small molecule such as NAD or NADP. Both NAD and NADP stimulated the transfer activity in crude extracts and in extracts which had undergone the centrifugation at 105,000 X g. The action of these coenzymes was attributed to their possible role in promoting the labeling of the intermediate from Pi^{32} . In addition to these two activators, the rate of the transfer reaction was markedly dependent upon the Pi concentration up to 1×10^{-3} M Pi . The yield of intermediate from slightly less than two kilo grams of cabbage was usually 50

100 millimicromoles under favorable assay conditions The probability that this represents less than the maximum yield was considered The transfer activity was rather severely inhibited by 1×10^{-3} M arsenate and partially inhibited by 1×10^{-4} M dinitrophenol DNP it was not sensitive to oligomycin ATP AMP and GDP did not substitute for ADP nor did NADH substitute for NAD The intermediate appeared to be labile when kept in an aqueous system in the presence of Mg Problems posed by such items as the impurity of the Pi^{32} and by side reactions were discussed The extract also contained succinic thiokinase exchange activity Most of the available evidence including a preliminary ammonium sulfate fractionation would indicate that this exchange was due to a separate protein On the basis of experimental evidence obtained in this study a sequence for the operation of the transfer reaction in the assay system was proposed It was suggested that both the non phosphorylated AH and the phosphorylated XH forms of an intermediate of oxidative phosphorylation were present in the extract It was further speculated that NAD and or NADP functioned as the A of AH and were active in promoting the labeling of the XH form with Pi^{32} In view of no ready alternate explanation for the transfer activity of the extract it was suggested that this activity merits consideration as the expression of an intermediate of oxidative phosphorylation

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Effect of Fluorescamine and Its Derivatives on Mitochondrial Oxidative Phosphorylation David Da-Wei Shiuan, 1981
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