

Electron Transport Wordsearch

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This puzzle contains 41 names, terms, and acronyms that describe electron transport and oxidative phosphorylation. Discover them by filling the blanks in the descriptions below the letter matrix. Then, find and highlight these items in the letter matrix. (Hint: there are no words within words.) All underlined letters, and only these, are found in the matrix. "ELECTRON" is already done for you. Afterward, use the 21 letters remaining in the matrix to complete the sentence describing these pathways. Your success will be rewarded. The answers to the Electron Transport Wordsearch are on the following page. Good hunting!

P N D E K N I L O L L I P O P
R E N E N A R B M E M D R H R
E M O R H C O T Y C A D O E E
O X I S F Y R U F L U S T S P
R E R P A M D C O Q P A O A P
C E D A D A N R T H D A N D O
E V N C H E M I O S M O T I C
M I O E 2 N O R I G I O C X R
Y T H N O X Y G E N E S I O I
Z A C R E L E C T R O N S U S
N D O N A C I D I C E L A I T
E I T T R A N S P O R T B S A
O X I N T E R M E M B R A N E
C O M P L E X I R T A M F W E
N I V A L F 1 E S A H T N Y S

The E L E C T R O N _____ chain or ETC is on and in the C _____ of a M _____. To start, N _____ is oxidized to _____ in C _____ I by reducing _____. Similarly, the _____ is oxidized by a E _____. L _____ D _____ to FAD in complex II. Both complexes contain I _____ -S _____ centers that in turn reduce C _____ Q (_____ or _____). It transfers electrons to complex III which passes them to C _____ Q _____ (complex IV) where they pass through cyt a heme _____ and C _____ (_____) ions. Cyt a3 then reduces Q _____ to W _____. The energy released pumps P _____ S _____ across the inner M _____ to the I _____ S _____, making it A _____ and the M _____ S _____, according to the Mitchell C _____ theory. This _____ and charge gradient then drives Q _____ P _____ by the L _____ shaped, ATP S _____ complex. The synthesis of _____ from _____ in the _____ subunit can be uncoupled from the ETC by dinitrophenol (_____), a deadly diet aid.

How many other words of three or more letters can you find?

Use the remaining letters to fill in the following sentence: _____

Electron Transport Wordsearch

D Kirk

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Electron Transport Wordsearch:

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