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**ACROSS**

- 2 toxic product of alcoholic fermentation
- 6 How does pyruvate get from the cytoplasm into the mitochondria?
- 8 characteristic of first stage of glycolysis
- 10 synthetic metabolism
- 11 oxidation of glucose in respiration
- 12 molecule produced when glucose is split
- 14 role of oxygen gas in Kreb's cycle
- 17 lactate producing bacteria
- 19 lower energy version of NADH
- 22 key molecule that enters Kreb's cycle
- 24 yeast poison
- 25 metabolic pathway found in mitochondrial matrix
- 27 inner mitochondrial membrane folds
- 28 energy storage molecule in glycolysis
- 29 This mitochondrial compartment becomes less acidic during electron transport
- 30 addition of electrons
- 31 oxidized pyruvate
- 33 method for lowering oxygen level during alcoholic fermentation

**DOWN**

- 1 result of quick oxidation of glucose

- 3 fully oxidized glucose
- 4 loss of carbon dioxide in a chemical reaction
- 5 ATP synthase works to make ATP through a \_\_\_\_\_ powered by proton transport
- 7 without free oxygen gas
- 9 This reaction:  $ADP + Pi \rightarrow ATP + H_2O$  is \_\_\_\_\_
- 13 energy currency of cell
- 15 What results from anaerobic metabolism occurring during exercise?
- 16 interesting characteristic of ATP synthase is that it \_\_\_\_\_ in the cristae membrane
- 18 Where is the energy in glucose?
- 20 molecules that are reduced typically have \_\_\_\_\_ energy than their oxidized versions
- 21 transporter for acetate group
- 23 anaerobic product produced from pyruvate
- 26 the number of carbon dioxide molecules produced from the complete oxidation of glucose
- 32 number of carbon atoms in acetyl CoA

Solution:

