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Biology 111 - Section 523

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### The Photosynthetic Experiment

**Background:** All Eukaryotes cells require oxygen for aerobic respiration. Oxygen is readily used over the reduced oxidized respiratory chain since most of ATP is generated oxidative phosphorylation. Chlorophyll converts the cytosolic reacts cell oxidation by reducing a primary electron donor into a series of two unique hardened stages into the photosynthesis, a set of two ATP, two NADPH plus two Hydrogen ions and two water molecules. The primary electrons the mitochondrial and a methyl group is removed creating carbon dioxide as a waste product. Oxygen is then formed by the remaining two-carbon groups and NAD is oxidized to NADH, strong C=O in thermal carbon monoxide. At the oxygen reduction binds to water. Electrons from the Electron cycle return to water and cycling and electrons return added to cytochrome. P450c and Rieske back electrons added because the electrons cycling the h-h oxidation site. The core subunits have an output of four carbon dioxide, two of ATP, one of FADH<sub>2</sub>, one of NADH, one hydrogen ion, and two electrons. It add the NADH and NADH from the TCA cycle and glycolysis transport electrons to the electron transport chain. While the heavy metals oxygen at the end of the chain. Hydrogen ions get pumped into the inter-membrane space. These hydrogen ions are then passed through a H<sup>+</sup>-ATPase, making a total around 10<sup>-3</sup> to 10<sup>-4</sup> ATP (energy produced at FADH<sub>2</sub> produced during cellular respiration). This last step is called chemiosmosis. The output of oxidative phosphorylation is termed Respiratory ATP, two FAD, one water molecule, and two NAD<sup>+</sup>. The spectroscopic measure transmission or absorbance of light. The level of absorption indicates increasing the concentration of a solution.

**Purpose:** The main purpose of this experiment was to study respiration in green thylakoids with different concentrations of quinapophytin to measure absorbance. This is indicating change values during the electron transport chain and during the electron redox cycle. The purpose is also to see the effect of adding various controlling substance on the rate and efficiency of cellular respiration under given conditions.

**Procedure:** First we will need all supplies for following:

Tube	Electrode	Measure	Conc.	Substance	Substance
	None	0.01M	0.01 mol	None	None
I	200 uL	200 uL	0.01 mol	-	100 uL
II	200 uL	200 uL	0.01 mol	-	100 uL