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## Carolina™ Cell Respiration for AP Biology

### Background

You are probably familiar with photosynthesis, the metabolic process that plants use to harness energy from the sun. But how do plants acquire energy when they germinate underground, out of the reach of sunlight? They metabolize sugars much like humans do, through cellular respiration.

All cells need energy. Energy is contained in the molecular structure of organic compounds such as carbohydrates, proteins, and fats. Carbohydrates, also called sugars, are the primary source of cellular energy. When the bonds of a carbohydrate molecule are broken, in a series of small steps and with the help of specific enzymes, energy is released from the bonds. The energy, stored in a molecule called adenosine triphosphate (ATP), can then be used by the cell.

ATP is the chief energy source of cells. It stores energy in the structure of its three-phosphate tail. The removal of a phosphate from the ATP molecule releases energy that powers almost all metabolic processes. When a phosphate is removed, adenosine triphosphate becomes adenosine diphosphate (ADP). Through cell respiration, fermentation, and other metabolic processes, there is a constant cycling between ATP and ADP.

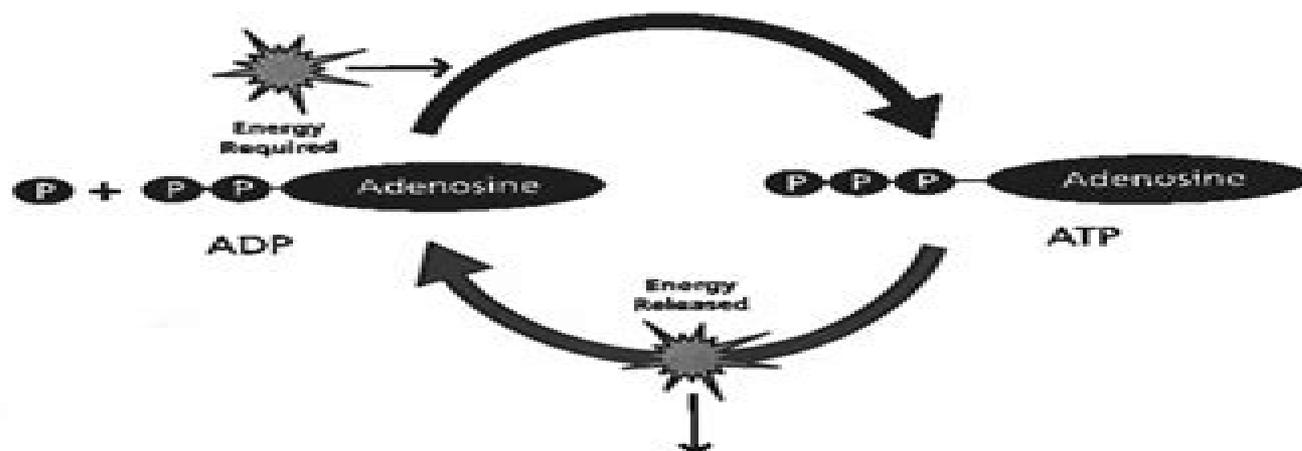


Figure 1. Cycling of ATP and ADP

In this lab, we will focus on aerobic cellular respiration. The series of reactions that occurs during aerobic cellular respiration is grouped into steps called glycolysis, Acetyl CoA synthesis, Krebs cycle, and electron transport chain. The breakdown of the sugar molecule is summarized by the following equation:



# Biology Cellular Respiration Lab Carolina Student Guide

**JA Banks**



**Biology Cellular Respiration Lab Carolina Student Guide:**

## The Enigmatic Realm of **Biology Cellular Respiration Lab Carolina Student Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Biology Cellular Respiration Lab Carolina Student Guide** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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