

CELLULAR RESPIRATION



Cellular respiration is the process by which food, in the form of sugar (glucose), is transformed into energy within cells. This energy is stored in ATP molecules, which then power all sorts of cellular processes. Respiration that requires oxygen is known as aerobic respiration; respiration that occurs without oxygen is called anaerobic respiration.

Aerobic Respiration

1 The first stage of aerobic respiration is **glycolysis**, where **glucose** molecules are broken down to create **ATP** in a cell's cytoplasm. Although the process consumes two ATP molecules, it produces four more, as well as two other substances: **pyruvate** and **NADH**.

2 In the second stage, which occurs in the **mitochondria** of a cell, pyruvate is used to create **acetyl coenzyme A** and **carbon dioxide**.

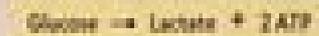
3 The third stage is known as the **citric acid cycle**, or **Krebs cycle**. In this stage, acetyl coenzyme A is used to create more **NADH**, as well as **FADH₂**, **carbon dioxide**, and an additional **ATP** molecule.

4 In the final stage, **NADH**, **FADH₂**, and **oxygen** are used to create massive amounts of **ATP** through **electron transfer**. This stage also creates **water** molecules.

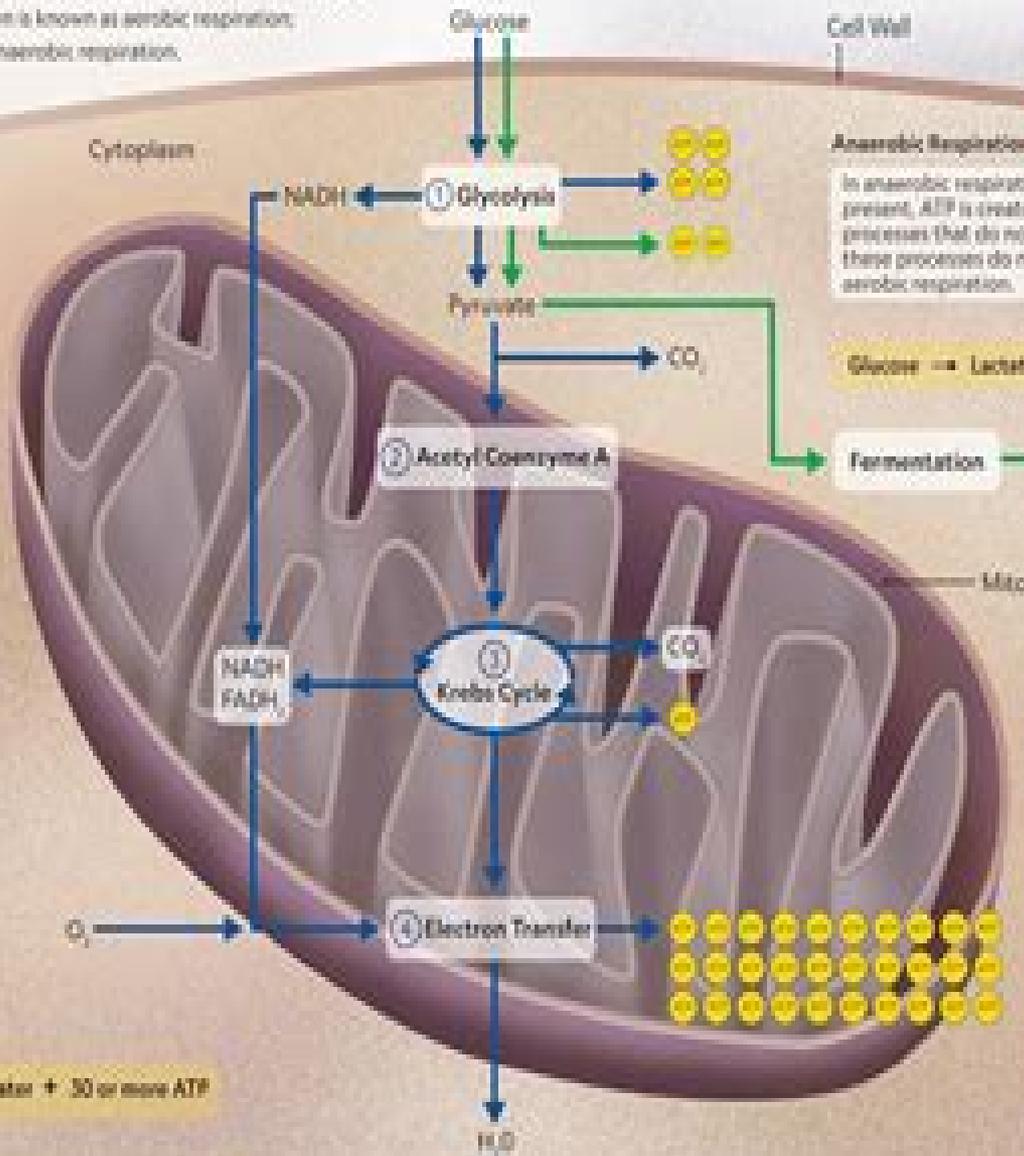


Anaerobic Respiration

In anaerobic respiration, where there is no oxygen present, **ATP** is created through other chemical processes that do not require oxygen. However, these processes do not produce as much ATP as aerobic respiration.



Fermentation \rightarrow Lactate



Animal Cell

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identified using lactophenol cotton blue staining