

# 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.

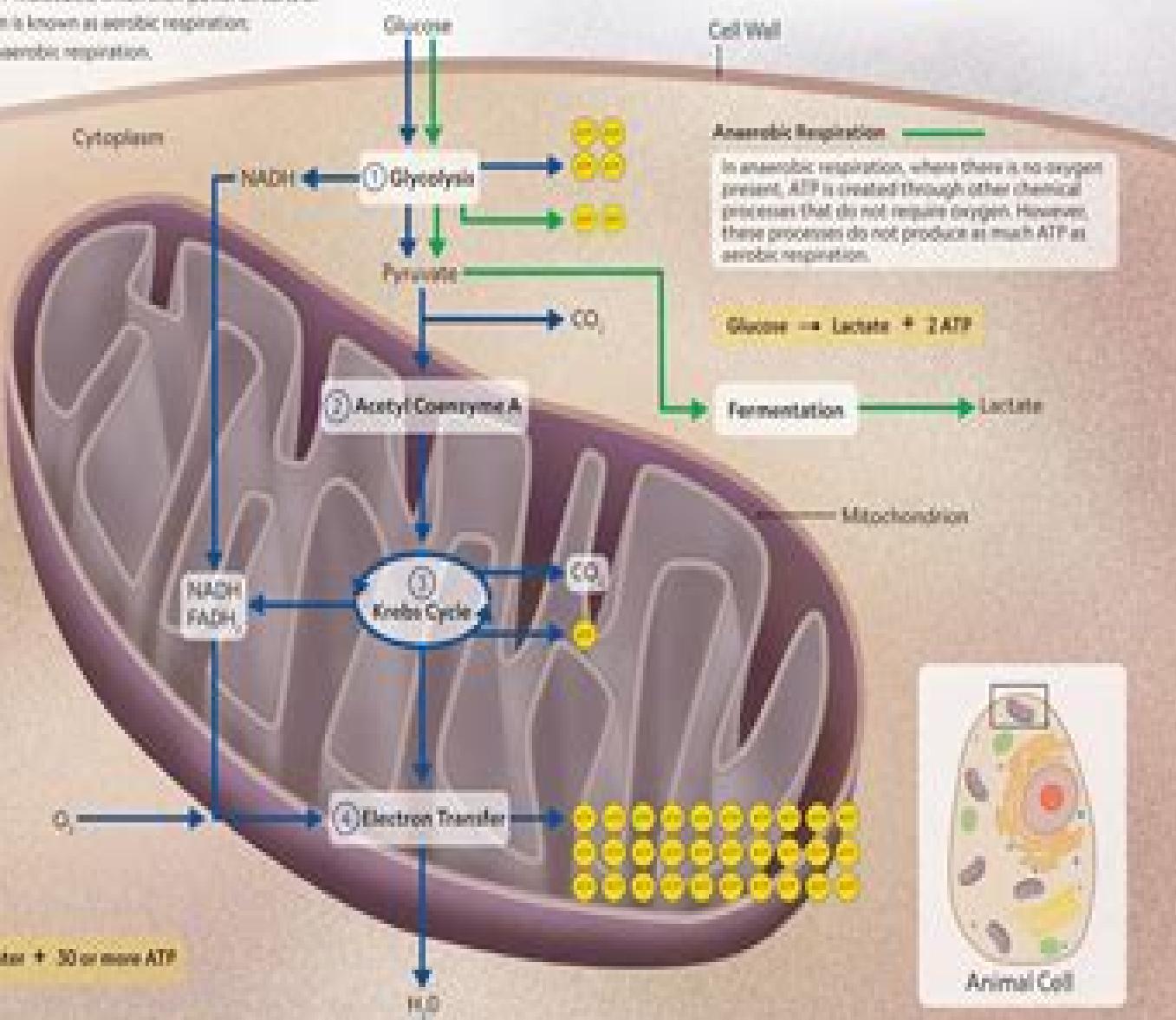
## Aerobic Respiration

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 FADH<sub>2</sub>, carbon dioxide, and an additional ATP molecule.

④ In the final stage, NADH, FADH<sub>2</sub>, and oxygen are used to create massive amounts of ATP through electron transfer. This stage also creates water molecules.



# Modern Biology Active Guide Cellular Respiration

**Gabrielle I. Edwards, Marion Cimmino**

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