

Biology notes : chapter 12 respiration

Respiration: breakdown of food molecules with the release of energy in living cells.

How is respiration controlled? - through a series of reactions that are controlled by enzymes.

Types of respiration: aerobic and anaerobic

Aerobic respiration: chemical breakdown of food molecules in the presence of oxygen.
(large amount of energy is released)

glucose + oxygen \square carbon dioxide + water + (large amount of energy)

→ The balanced chemical equation of aerobic respiration:



Anaerobic respiration: chemical breakdown of food molecules in the absence of oxygen.
(lesser oxygen is released)

glucose \square ethanol + carbon dioxide (+ small amount of energy)

The balanced chemical equation:



-**Lactic acid** is formed during anaerobic respiration in the muscles.

-Lactic acid is the **byproduct** of anaerobic respiration. It is the fuel for our cell breakdown during intense exercises. When it is in the body in high amounts, it can cause muscle burns, fatigue and also tissue damaged after intense workouts.

-**Oxygen debt** is the oxygen required after intense exercise to oxidise the lactic acid created from anaerobic respiration

-oxygen debt can be removed from our body by continuation of deeper and faster breathing or continuation of faster heart rate.

Effects of exercise on breathing:

- frequency and depth of breathing increase. This is because muscles are working harder and need more oxygen to function. (body breaths through aerobic respiration in default)

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