

# BREATHING AND EXCHANGE OF GASES

## INTRODUCTION

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- **Respiration** is the involuntary catabolic process which involves exchange of environmental oxygen and body's carbon dioxide. The oxygen is utilized for the oxidation of glucose in the mitochondria to produce energy.
- It takes place in three basic steps -
  - **Pulmonary ventilation** : The first process, pulmonary (pulmo = lung) ventilation, or **breathing**, is the inspiration (inflow) and expiration (outflow) of air between the atmosphere and lungs.
  - **External (pulmonary) respiration** : This is the exchange of gases between air spaces of the lungs and blood in pulmonary capillaries. The blood gains  $O_2$  and loses  $CO_2$ .
  - **Internal (tissue) respiration** : The exchange of gases between blood in systemic capillaries and tissue cells is known as internal (tissue) respiration. The blood loses  $O_2$  and gains  $CO_2$  within cells. The metabolic reactions that consume  $O_2$  and give off  $CO_2$  during production of ATP are termed as **cellular respiration**.
- Respiration is of two types – aerobic and anaerobic respiration.
- **Aerobic respiration** occurs in the presence of molecular oxygen. The oxygen completely oxidizes the food to carbon dioxide and water releasing large amounts of energy.
$$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + 2830\text{kJ}$$

Glucose                      oxygen                      Carbon dioxide                      Water                      Energy
- The organisms showing aerobic respiration, are called aerobes. It is found in most animals and plants.
- Aerobic respiration are of two main types – **direct** and **indirect**.
- **Direct respiration** is the exchange of environmental oxygen with carbon dioxide of the body cells without special respiratory organs and without the aid of blood. It is found in aerobic bacteria, protists, plants, sponges, coelenterates, flatworms, roundworms and most arthropods.
- **Indirect respiration** involves special respiratory organs such as skin, buccopharyngeal lining, gills and lungs and needs the help of blood. Respiration in the skin, buccopharyngeal lining, gills and lungs is respectively called **cutaneous**, **buccopharyngeal**, **bronchial** and **pulmonary** respiration.
  - **Cutaneous respiration** takes place in annelids, some crustaceans, eel fish, amphibians and marine snakes. It occurs both in water and in air.
  - **Buccopharyngeal respiration** is found in certain amphibians such as frog and toad. It occurs in the air.
  - **Bronchial respiration** is found in many annelids, most crustaceans and molluscs, some insect larvae, echinoderms, all fishes and some amphibians. It occurs in water only.
  - **Pulmonary respiration** is found in snails, Pila, some amphibians and reptiles, birds and mammals. It takes place in air only.
- **Anaerobic respiration** occurs in the absence of molecular oxygen and is also called **fermentation**. In this, the food is partially oxidized so only a part of energy (5%) is released and some of the energy remains trapped in the intermediate compounds. It is found in lower organisms like bacteria and yeast. It is also found in certain parasitic worms (*Ascaris*, *Taenia*) which live in deficient medium.

# Exchange 2007 Lab Manual

**Didier Musso**



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