

Chapter 23 : Respiratory System

Aerobic system = requires oxygen; produces most energy

Anaerobic system = does not require oxygen

I. An Introduction to the Respiratory System

A. Respiratory system

1. Cells obtain energy
 - a) Aerobic metabolism – requires oxygen
 - b) Oxygen
 - c) Carbon dioxide
2. Oxygen diffuses along surface of lungs
3. Blood carries oxygen
 - a) O₂ from lungs to peripheral tissues
 - b) CO₂ from peripheral tissues to lungs

II. Functions of the respiratory system

- A. Gas exchange
- B. Protect respiratory surfaces from:
 1. Dehydration, temperature changes, and pathogens
- C. Produce sounds
- D. Detect odors

III. Organization of the respiratory system

- A. Upper respiratory system
- B. Lower respiratory system
 1. Larynx, trachea, bronchi, bronchioles, and alveoli

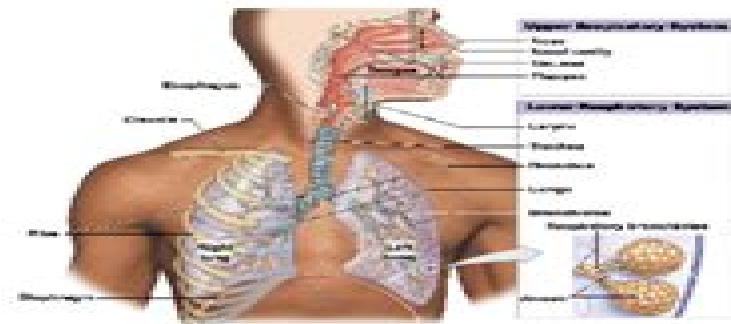
IV. Components of the Respiratory System

A. Respiratory tract

1. **Conducting portion** – nasal cavity to larger bronchioles
 - a) Does not exchange any oxygen
 2. **Respiratory portion**
 - a) Smallest respiratory bronchioles and **alveoli**
 - b) Part that exchanges oxygen and CO₂
- B. Respiratory mucosa – Lines conducting portion of respiratory system
1. Consists of:
 - a) Epithelium – surface layer of everything; covers *stuff*
 - b) Connective tissue – *stuff that whatever organs made of*
 2. Respiratory defense system
 - a) Removes particles and pathogens from inhaled air

C. Connective tissue

1. In upper respiratory system, trachea, and bronchi
 - a) Mucous glands – trap particles
 - b) *Cilia in trachea is hair like and helps you cough/push mucus out or swallowed into GI tract*
2. In conducting portion of lower respiratory system
 - a) Smooth muscle cells that encircle bronchioles
 - b) When they contract they close the diameter, decreasing amount of air going into lungs, vice versa



Chapter 23 Respiratory System Outline

**Gerard J. Tortora, Berdell R.
Funke, Christine L. Case**



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