

# THE ANATOMY OF THE HUMAN BODY



**Trachea**  
**Right Bronchus**  
**Left Bronchus**  
**Right Lung**  
**Left Lung**

**RESPIRATORY SYSTEM**

The respiratory system is responsible for the exchange of gases between the body and the environment. It consists of the trachea, bronchi, bronchioles, and alveoli. The trachea is the main airway, and the bronchi branch out to the lungs. The bronchioles further divide into alveoli, where gas exchange occurs. The diaphragm and intercostal muscles are involved in the mechanics of breathing.

**FUNCTIONS OF THE RESPIRATORY SYSTEM**

- To take in oxygen from the atmosphere.
- To remove carbon dioxide from the body.
- To regulate the pH of the blood.
- To regulate the temperature of the body.

**STRUCTURE OF THE RESPIRATORY SYSTEM**

The respiratory system is divided into the upper respiratory tract (nose, mouth, and pharynx) and the lower respiratory tract (trachea, bronchi, and lungs). The trachea is supported by cartilaginous rings, and the bronchi are supported by cartilaginous plates. The lungs are covered by a double-layered membrane called the pleura, which contains a small amount of fluid to reduce friction during breathing.