

# THE ANATOMY OF THE HUMAN BODY



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

**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 maintain the pH of the blood.
- To regulate body temperature.

**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 have cartilaginous plates. The lungs are covered by a double-layered membrane called the pleura, which contains pleural fluid to reduce friction during breathing.