

# The Respiratory System

## The Bronchial Tree

- Right and left bronchus
- Right is more acute in angle and shorter by 2.5cm, resulting in more foreign objects entering the right lung.
- Left bronchus is lower and narrower.

It divides into:

- Secondary bronchi
- Tertiary bronchi
- Bronchioles
- Terminal bronchioles

Alveoli (external respiration takes place, approx 500 million that cover 100m squared)



Carina



## The Lungs

- Two spongy lungs with an apex, base and costal/medial surface
- Pleural membranes: parietal pleura, potential space and visceral pleura
- Labels: Right lung base, Left lung base
- Lobules
- Alveoli
- Arterioles
- Venous sinuses
- The top of the lung is called the apex lies 2" above the clavicle.

## The Pleura

- Each lung has an outgrowth for:
- Arterioles (pulmonary arteries and veins)
- Arterioles (a)
- Lymphatics
- Sympathetic and parasympathetic

## The Pleura

- Double layer of serous membrane, cover the lungs (visceral) and inside the chest wall (parietal)
- A potential space between the two layers is filled with serous fluid and prevents friction when we breathe.



## The Alveoli

Alveoli are small air sacs in the lungs which are specially adapted for gas exchange. The walls of the alveoli separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist to allow gases to dissolve into the fluid for gas exchange with the blood.



A diagram showing several alveoli and the capillaries supplying them with blood.



A diagram showing a single alveolus with the oxygen going into the blood and carbon dioxide leaving the blood.

## The Bronchioles

The bronchioles are small branches of the bronchi which link the alveoli in the lungs to the trachea. There are many bronchioles in the lungs. The bronchioles are surrounded by smooth muscle.



A diagram showing the bronchioles.

BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT...

# Modern Biology Study Guide The Respiratory System

**M Woodhall**



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