

Chapter 42 – Circulation

Gas exchange overview:

Ventilation --> Diffusion of respiratory surface --> Circulation --> Diffusion of tissues --> Cellular respiration

To maximize gas exchange

1. Large surface area
2. Thin respiratory surface
3. Large pressure gradient

Gas exchange organs

- Gills – countercurrent exchange, opposite directions
 - Insect trachea
 - Lungs – Alveoli, tremendous surface area and loaded with capillaries
-
- ❖ Breathing is regulated by CO₂ levels
 - Left side of the heart has the thicker ventricle which is the side that focuses on the rest of the body while the right side of the heart has a thinner ventricle which only pumps blood to the heart

2 circuits

1. Pulmonary – to the lungs, away from the heart
 - Pulmonary artery – deoxygenated, carries blood to the lungs
 - Pulmonary vein – oxygenated, carries blood from lungs to the heart
2. Systemic – to the rest of the body, oxygenated

Capillary Exchange (How plasma exits and enters the capillaries)

1. Blood pressure
2. Osmotic pressure

How does the heart work?

- Myogenic – The heart generates its own electrical impulse
- Gap Junctions – keeps the whole heart beating as a coordinated unit due to the ions being released

Blood components

- Hemoglobin – carries oxygen and releases oxygen in our muscles, brain, etc.
- ❖ CO₂ is transported in blood by Bicarbonate ions

Answer Section 42 Circulation

Thorpe



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