

## 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 CO<sub>2</sub> 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.
- ❖ CO<sub>2</sub> is transported in blood by Bicarbonate ions

## Answer Section 42 Circulation

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