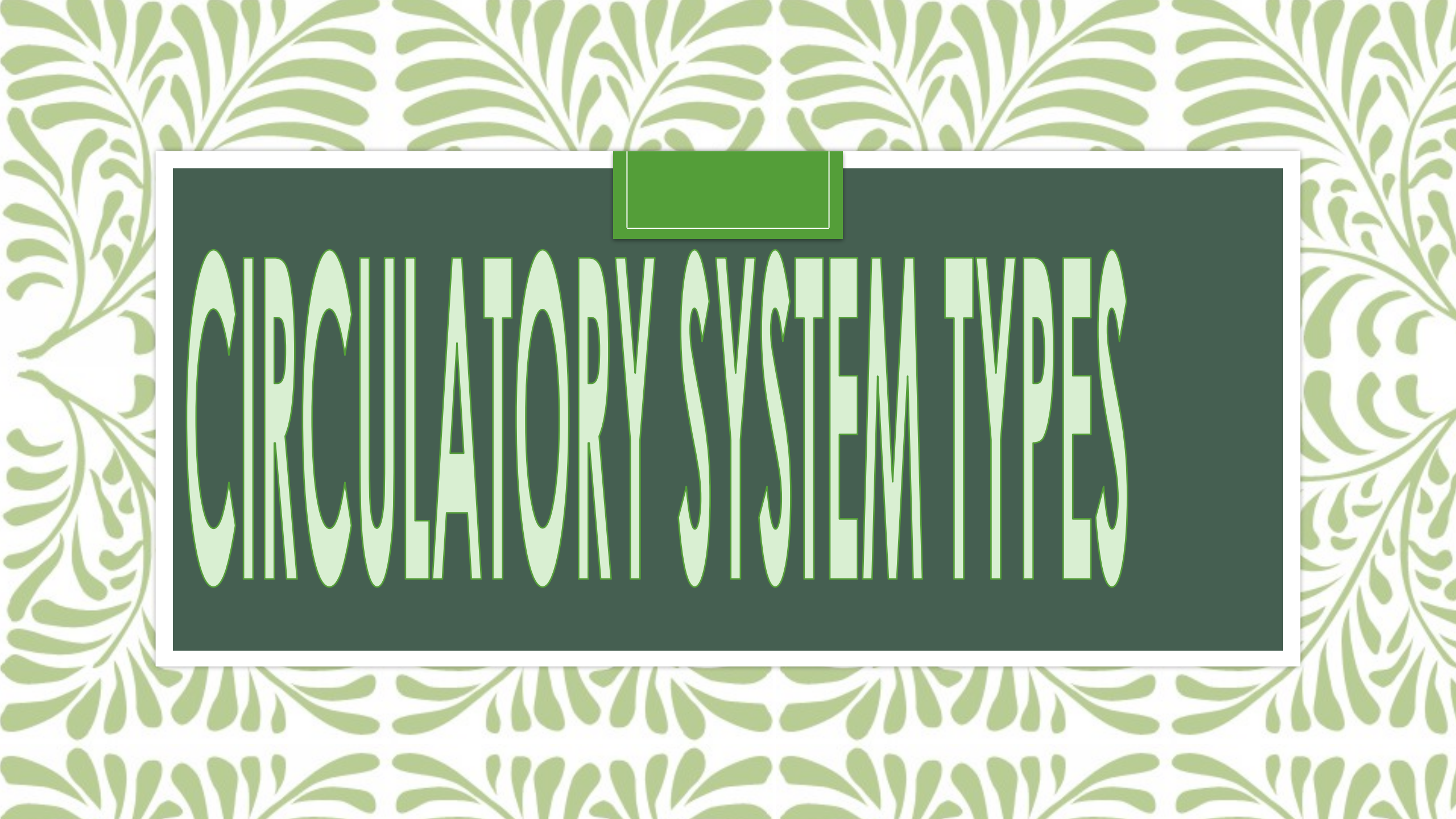
The background of the slide is a repeating pattern of stylized green leaves and branches on a light green background. A dark green rectangular box with a white border is centered on the slide, containing the text. A small, solid green square is positioned above the word 'THE' in the first line of text.

WHAT IS THE PATH OF  
AN OXYGEN FROM  
LUNGS TO A BRAIN  
CELL?



# CIRCULATORY SYSTEM TYPES

# CIRCULATORY SYSTEM

- Needed material, oxygen, nutrients and waste materials, carbon dioxide and urea are carried by CIRCULATORY SYSTEM.
- A true CIRCULATORY SYSTEM has heart, blood and blood vessels.

## Types CIRCULATORY SYSTEM



Open CIRCULATORY SYSTEM



Closed CIRCULATORY SYSTEM

# OPEN CIRCULATORY SYSTEM

- Consist of HEART(PUMP), ARTERIES and VEINS.

Blood is pumped into



Artery



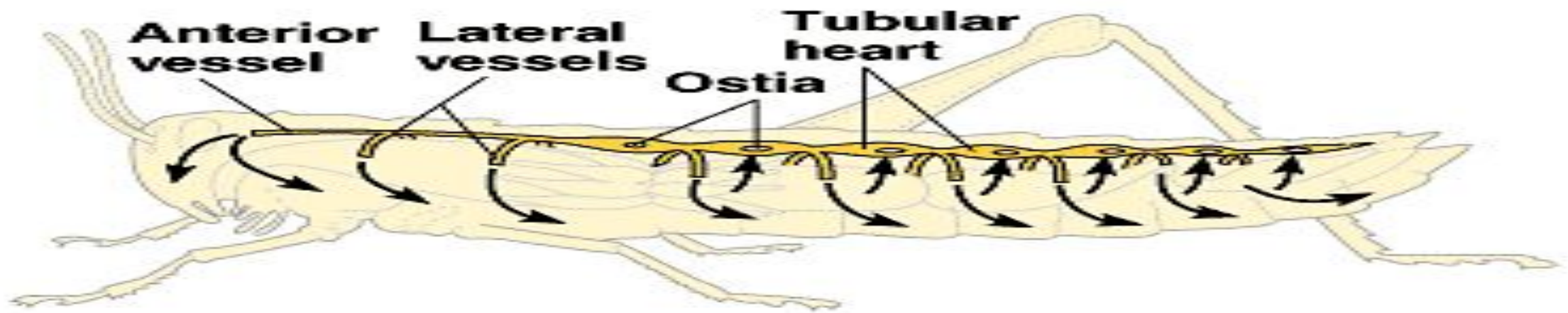
Body Cavity



Veins



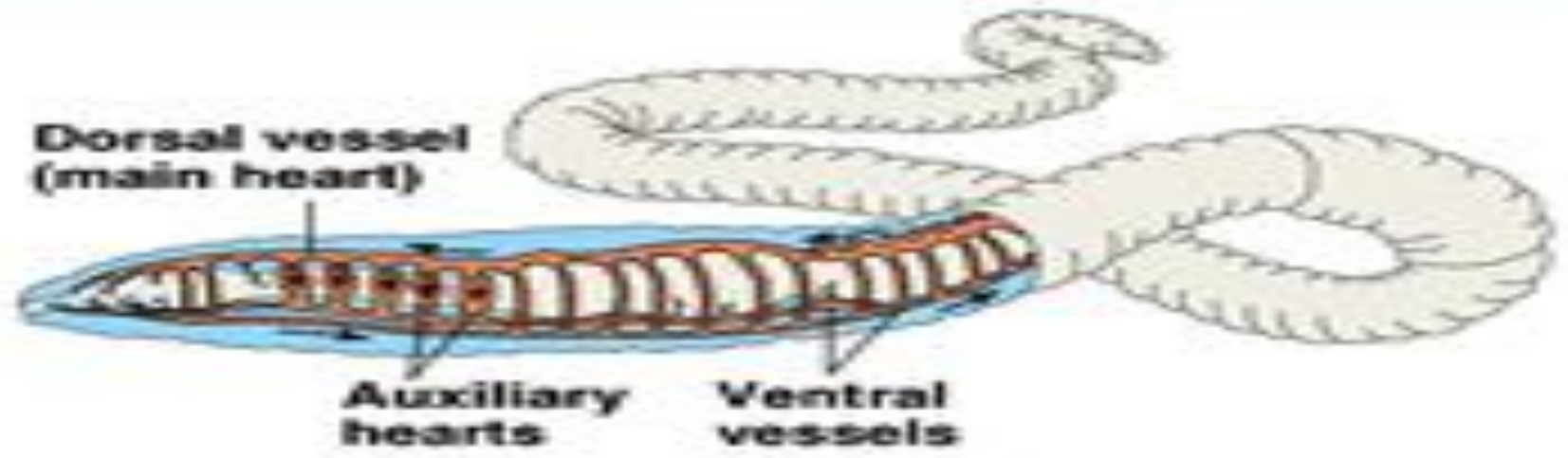
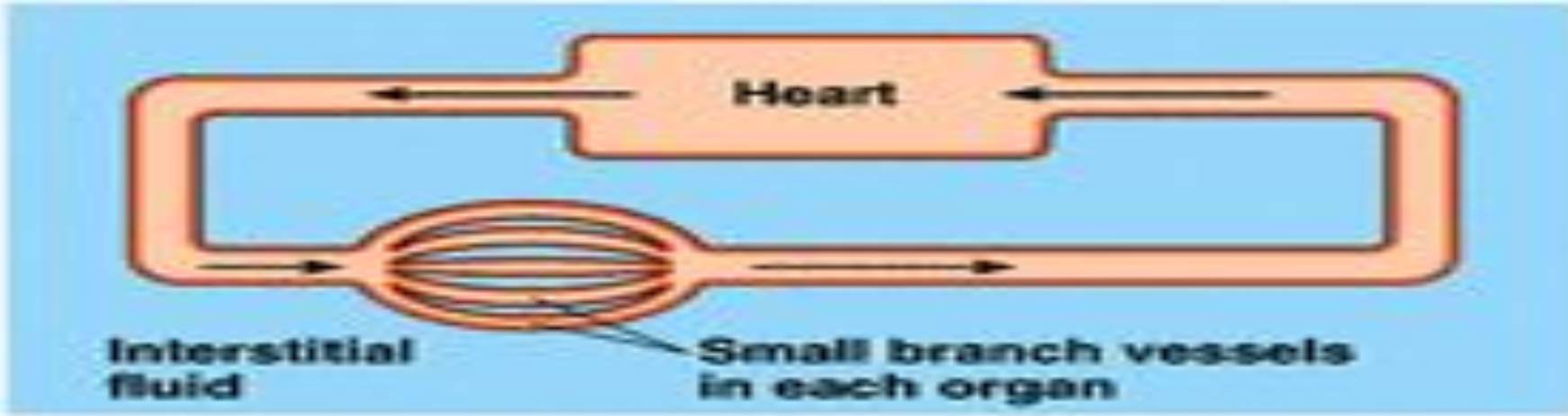
(MATERIAL EXCHANGE)



**(a) Open circulatory system**

# Closed CIRCULATORY SYSTEM(CCS)

- In CCS there are capillaries between arteries and veins
- Capillaries are very tiny blood vessels(Material Exchange)
- Blood never leaves the BLOOD VESSELS
- Segmented Worms, cephalopods and all Vertebrates are examples



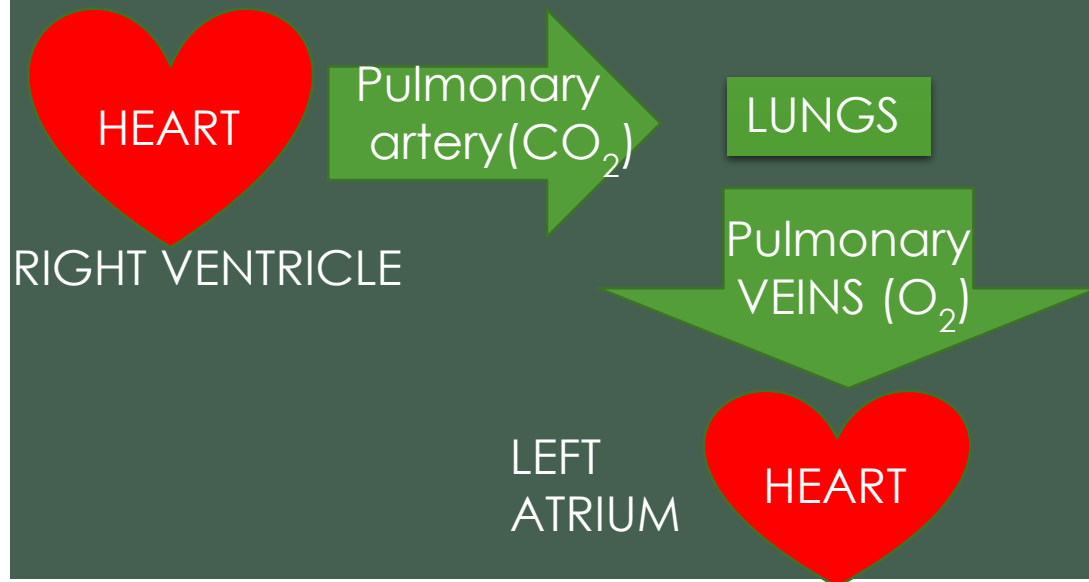
(b) Closed circulatory system

# BLOOD CIRCULATION IN HUMAN

INCLUDES

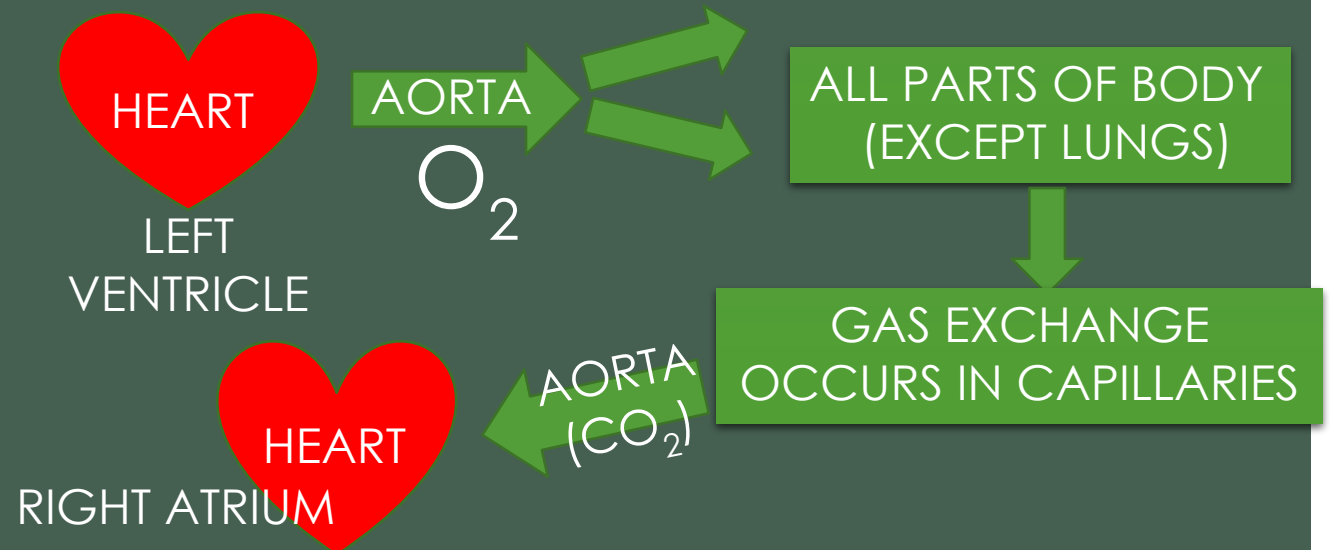
## PULMONARY CIRCULATION

- OCCURS BETWEEN HEART and LUNGS



## SYSTEMIC CIRCULATION

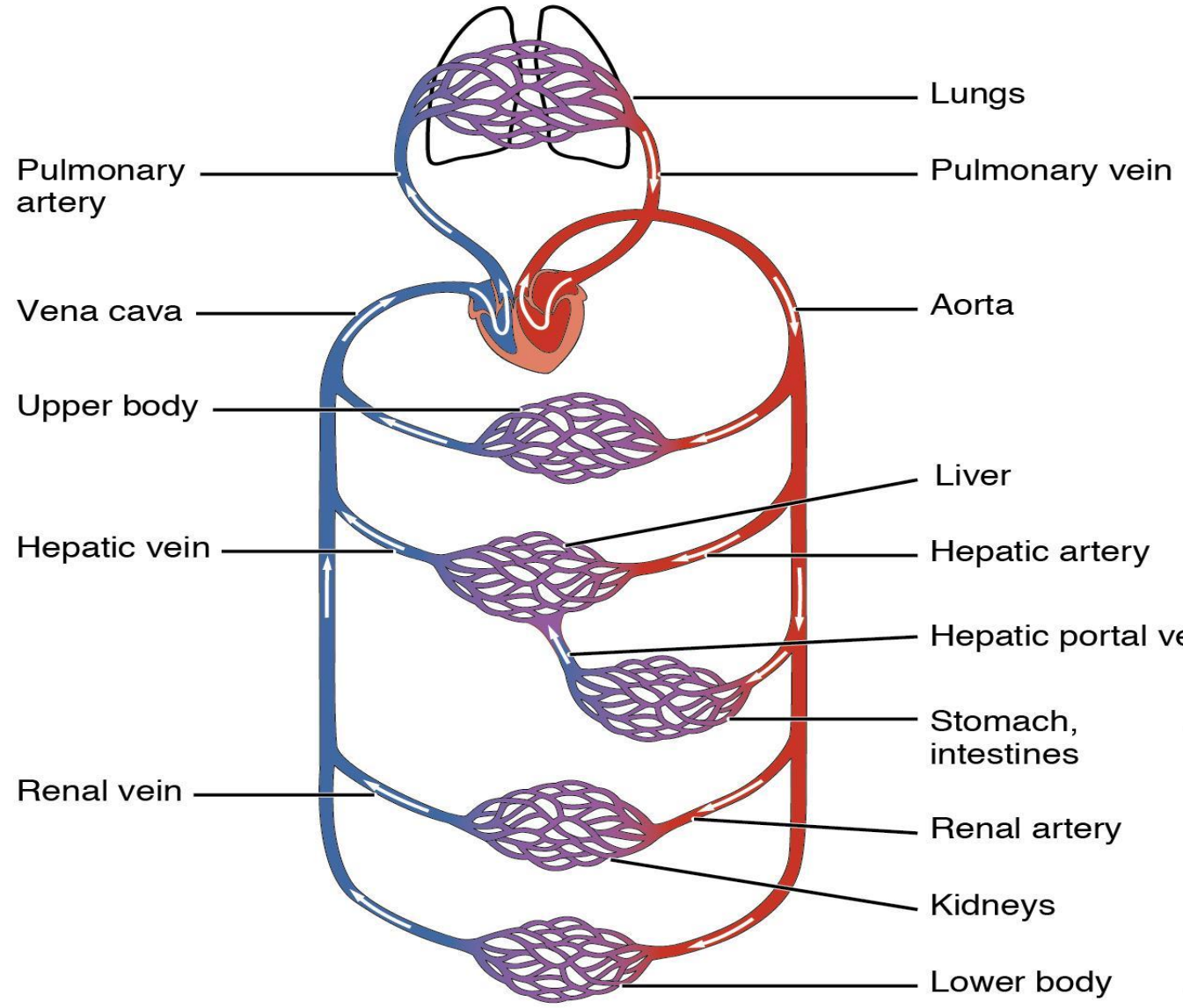
- OCCURS BETWEEN HEART and OTHER BODY ORGAN








Pulmonary circulation

Systemic circulation



-  Vessels transporting oxygenated blood
-  Vessels transporting deoxygenated blood
-  Vessels involved in gas exchange