

# Heart Dissection



## Introduction

Mammals have four-chambered hearts and double circulation. The heart of a bird or mammal has two atria and two completely separated ventricles. The double-loop circulation is similar to amphibians and reptiles, but the oxygen-rich blood is completely separated from oxygen-poor blood. The left side of the heart handles only oxygenated blood, and the right side receives and pumps only deoxygenated blood. With no mixing of the two kinds of blood, and with a double circulation that restores pressure after blood has passed through the lung capillaries, delivery of oxygen to all parts of the body for cellular respiration is enhanced. As endotherms, which use heat released from metabolism to warm the body, mammals require more oxygen per gram of body weight than other vertebrates of equal size. Birds and mammals descended from different reptilian ancestors, and their four-chambered hearts evolved independently - an example of convergent evolution.

## Objective

Using a pig heart, students will observe the major chambers, valves, and vessels of the heart and be able to describe the circulation of blood through the heart to the lungs and back and out to the rest of the body. *(The pig heart is used because it is very similar to the human heart in structure, size, & function.)*

## Materials

Dissecting pan, dissecting kit, safety glasses, lab apron, pig heart, & gloves

## Procedure - External Structure

*When you have finished dissecting the heart, dispose of the heart as your teacher advises and clean, dry, and return all dissecting equipment to the lab cart. Wash your hands thoroughly with soap.*

1. Place a heart in a dissecting pan & rinse off the excess preservative with tap water. Pat the heart dry.
2. Examine the heart and locate the thin membrane or **pericardium** that still covers the heart. The pericardium or pericardial sac, is a double-layered closed sac that surrounds the heart and anchors it. The pericardium consists of two tissues layers - the **visceral pericardium** that covers the

# Heart Dissection Lab Guide

**Hussin A.Rothana**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the slide.

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