

Laboratory Exercise 2: Anatomy of the heart and blood vessels

Introduction

During this lab you will carry out Exercises 30 and 32, and Dissection Exercise 4 in the Human Anatomy and Physiology Laboratory Manual. To prepare yourself for lab you should read these exercises before coming to lab. Pages 750 - 773 in your lecture text are also very helpful and clear in their explanation of blood vessel organization and anatomy.

Objectives

The objectives for the lab are outlined in pages 300, 317, and 735 of your lab manual.

Preparation:

The following resources are available to prepare you for lab. This is a long, thorough lab, make sure to come prepared to use time efficiently.

Required preparation:

1. Read Exercise 30, 32, and Dissection Exercise 4 in the lab manual.
2. Complete the following and turn them in at the beginning of your lab session:
 - Review Sheet 30, Anatomy of the heart: Gross anatomy of human heart, pulmonary, systemic, and cardiac circulations; microscopic anatomy of cardiac muscle; don't do the section on dissection of the sheep heart
 - Review Sheet 32: Microscopic structure of the blood vessels; major systemic arteries and veins of the body; don't do section on special circulations
3. Review blood vessel lab notes -- this is the list of vessels that you are responsible for.
4. Examine heart slides in the PhysioEx histology module.

Optional preparation

1. Cardiovascular laboratory resources.