

# Lab 2: The Heart - Anatomy

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1. **Chambers and Valves:** Describe the four chambers of the heart. How do the atrioventricular and semilunar valves function differently in regulating blood flow within the heart?
2. **Blood Flow Pathway:** Trace the pathway of blood through the heart, starting from the vena cava and ending at the aorta. Include the roles of each chamber and valve in your description.
3. **Cardiac Muscle Tissue:** Compare and contrast the structure of cardiac muscle tissue with that of skeletal muscle. How does the unique structure of cardiac muscle support its function?
4. **Coronary Circulation:** Identify the major coronary arteries and veins on the dissected heart. Explain their significance in providing oxygen and nutrients to the heart muscle.
5. **Electrical Conduction System:** Locate and describe the components of the heart's electrical conduction system (sinoatrial node, atrioventricular node, bundle of His, and Purkinje fibers). How does this system coordinate the heartbeat?