

Cow Heart Dissection

Name: _____

Observation: External Anatomy

1. Identify the right and left sides of the heart. Look closely and on one side you will see a diagonal line of blood vessels that divide the heart. The half that includes all of the apex (pointed end) of the heart is the left side.

2. Confirm this by squeezing each half of the heart. The left half will feel much firmer and more muscular than the right side. (The left side of the heart is stronger because it has to pump blood to the whole body. The right side only pumps blood to the lungs.)

3. Locate the **coronary arteries** and veins that are on the surface of the heart.

4. Find the flaps of dark tissue on the top of the heart. These ear-like flaps are called **auricles**.

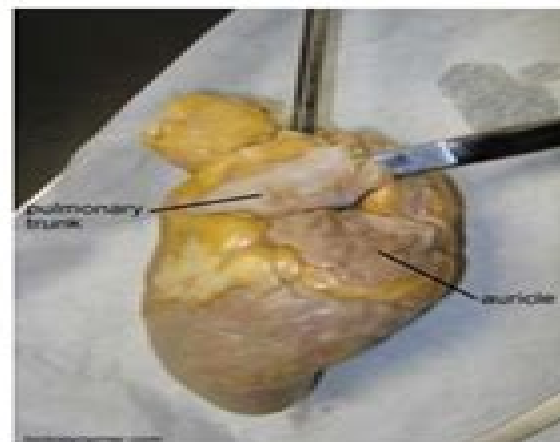
5. Turn the heart so that you are looking at its dorsal side (the back of the heart). Find the large opening at the top of the heart next to the right auricle. This is the **superior vena cava**, which brings blood from the top half of the body to the **right atrium** (the atria are the top chambers in the heart). Stick a probe down this vessel. You should feel it open into the right atrium.

6. A little down and to the left of the superior vena cava there is another blood vessel opening. Insert your probe into this; it should also lead into the right atrium. This is the **inferior vena cava**, which brings blood from the lower tissues.

7. You can also see another blood vessel next to the left auricle. This is a **pulmonary vein** that brings blood from the lungs into the **left atrium**.

8. Sticking straight up from the center of the heart is the largest blood vessel you will see. This is the **aorta**, which takes oxygenated blood from the **left ventricle** to the rest of the body (the ventricles are the lower chambers of the heart).

9. Behind and to the left of the aorta there is another large vessel. This is the **pulmonary artery** which takes blood from the **right ventricle** to the lungs.



Checkpoint: Make sure you know the location of each of the following before continuing to the internal anatomy of the heart:

Cow Heart Dissection Guide

**Deborah Crowe, Akron-Summit County
Public Library. Science and
Technology Division**

Cow Heart Dissection Guide:

Guide to the Dissection and Study of the Thoracic and Abdominal Viscera, in Situ, of the Horse and Cow ...

Grant Sherman Hopkins,1942 Anatomy and Dissection of the Fetal Pig Warren F. Walker,Dominique G. Homberger,1997-12-15 Careful step by step explanations helpful diagrams and illustrations and detailed discussions of the structure and function of each system make this an optimal laboratory resource Custom Publishing Create a customized version of this text or mix and match it with similar titles with W H Freeman Custom Publishing *Guide to Ruminant Anatomy* Mahmoud Mansour,Ray Wilhite,Joe Rowe,Saly Hafiz,2023-03-01 Guide to Ruminant Anatomy Familiarize yourself with the anatomy of ruminants and food animals with this up to date guide Guide to Ruminant Anatomy provides a richly illustrated guide tailored to the practical needs of veterinary clinicians Divided for ease of use into sections representing different parts of the ruminant body this in depth introduction uses real dissection images to familiarize readers in detail with the internal and external anatomy of caprine ovine and bovine animals It provides an outstanding demonstration of the relevance of anatomy in clinical settings Guide to Ruminant Anatomy readers will also find Practical clinical applications discussed by board certified clinicians in each chapter Line drawings corresponding to dissection images of embalmed specimens Learning objectives in each section tying key concepts to clinician development A companion website featuring laboratory videos demonstrating relevant anatomy Guide to Ruminant Anatomy is an essential guide for veterinary students studying anatomy of food animals as well as veterinary practitioners of all kinds looking for an easy to use reference on ruminant anatomy *A Dissection Guide & Atlas to the Fetal Pig* David G. Smith,Michael P. Schenk,2012-01-01 A Dissection Guide Atlas to the Fetal Pig 3rd Ed by David G Smith and Michael P Schenk is designed to provide students with a comprehensive introduction to the anatomy of the fetal pig This full color dissection guide and atlas gives the student carefully worded directions for learning basic mammalian anatomy through the use of a fetal pig specimen **Biology** ,1999

Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman,2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart Exploring Anatomy Physiology in the Laboratory 3e Anatomy and Dissection of the Rat Warren F. Walker,Dominique G. Homberger,1997-12-15 The careful explanation of each step of the dissection helpful diagrams and illustrations and detailed discussion of the structure and function of each system in Anatomy and Dissection of the Rat Third Edition optimize the educational value of the dissection process These laboratory exercises are available as a bound set for the first time ever They re still offered separately as well This popular series which includes Anatomy and Dissection of the Frog and Anatomy and Dissection of the Fetal Pig is geared toward introductory courses in biology comparative anatomy and zoology **Science Fair Project Index 1981-1984**

Deborah Crowe, Akron-Summit County Public Library. Science and Technology Division, 1986 This second supplement to the Science Fair Project Index 1960 1972 includes science projects and experiments found in 135 books and five magazines published from 1981 through 1984 The index is intended for use by students in grades five through high school and teachers who are involved in creating science fair projects **The Rough Guide to Copenhagen** Lone Mouritsen, Caroline Osborne, 2004 This guide to Copenhagen captures all the city's highlights from alternative Christiania to the Museum of Modern Art at Louisiana in a 16 page introduction There are informative and revealing accounts of all the attractions both well known sights and lesser known local gems The top restaurants bars hotels guesthouses and pastry shops are uncovered by reviews and full contact details are provided There are also accounts of several possible day trips including the castle at Helsingor and Hans Christian Andersen's home town of Odense **Guide to the Dissection of Domestic Ruminants** Robert E. Habel, 1970

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