

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**.

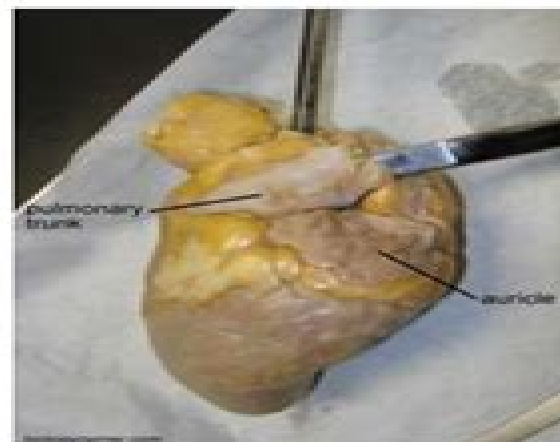
5. Turn the heart so that you are looking at its dorsal side (the back of the heart). Find the large opening at the top of the heart next to the right auricle. This is the **superior vena cava**, which brings blood from the top half of the body to the **right atrium** (the atria are the top chambers 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

Robert E. Habel

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Cow Heart Dissection Guide:

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 Guide to the Dissection of the Horse James R. Rooney, 1951 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 *Guide to the Dissection and Study of the Thoracic and Abdominal Viscera, in Situ, of the Horse and Cow ...* Grant Sherman Hopkins, 1942 *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

Carolina Science and Math Carolina Biological Supply Company, 2003 Guide to the Dissection of Domestic Ruminants Robert E. Habel, 1970 **Circadian Physiology** Roberto Refinetti, PhD., 2016-04-21 Circadian rhythms influence most of our life activities notably getting up and going to sleep every day This new edition of Circadian Physiology delves into the mechanisms surrounding how these rhythms work the physiology and biology behind them and the latest research on this cutting edge field The book also discusses a wide variety of practical **Laboratory Manual for Human Biology** Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology course Illustrated Guide to the Museum of the Royal College of Surgeons, England Royal College of Surgeons of England. Museum, Arthur Berriedale Keith, 1910 **The Pursuit of Life** Robert Fine, Jack Levison, 2023-01-06 This volume examines crucial concerns in palliative care including the proper balance between comfort and cure for the patient the integration of spiritual well being and the challenges of providing care in the absence of basic medical services and supplies In the first section palliative care pioneers Constance Dahlin Eduardo Bruera Neil MacDonald and Declan Walsh recount the early history of the discipline Part 2 discusses the role of poetry prose plays and other aspects of the humanities in the practice of palliative care Part 3 explores essential current issues in the field including autonomy the use of opioids and the impact of artificial intelligence on the evolution of palliative care The final section focuses on the spiritual dimensions of pain and suffering Rich with anecdotes

and personal stories and featuring contributions from pioneers and current practitioners The Pursuit of Life is an essential assessment of the past present and future of palliative care In addition to the editors the contributors include W Andrew Achenbaum Stacy L Auld Elena Pagani Bagliacca Costantino Benedetti Courtenay Bruce Eduardo Bruera Joseph Calandrino Jim Cleary Constance Dahlin Andrea Ferrari Mauro Ferrari Joseph J Fins Bettie Jo Tennon Hightower Kathryn B Kirkland Robin W Lovin Neil MacDonald Charles Millikan Dominique J Monlezun Tullio Proserpio Giovanna Sironi Daniel P Sulmasy and Declan Walsh

Excellence and Equality David M. Fetterman, 1988-01-01 Fetterman focuses on what actually works in gifted and talented education programs Complementing the psychological perspective on gifted and talented education he adopts an anthropological point of view using methods such as lengthy interviews with students teachers parents administrators and others involved in the school programs daily observation and group discussions to elicit the insider s perspective A ground breaking work Fetterman s timely study provides a comparative picture of over 433 gifted and talented programs in the United States as well as programs in other countries The author s cross cultural perspective points up the need for U S educators to shake themselves out of a national complacency about the gifted and talented and stresses the importance of comparing our own efforts with those of other nations In the process Fetterman proposes a model for educational excellence in terms of the mainstream U S educational system The book will provide new insights for educators and policymakers working in our educational system as they strive to meet the needs of gifted and talented students

Gap Junction Structure and Chemical Regulation Camillo Peracchia, 2019-02-16 Gap Junction Structure and Chemical Regulation Direct Calmodulin Role in Cell to Cell Channel Gating describes and discusses the findings of major studies conducted during the past century on the structure and chemical regulation of direct cell to cell communication via gap junction channels Chapters bring together important findings on direct cell communication from its history to its structure and regulation These channels are essential for normal organ function and mutations in their protein connexin cause various diseases The book is useful for established investigators who need a review on the field and young investigators who need a thorough resource for study and comprehension Contains comprehensive historical coverage on direct cell to cell communication Provides detailed coverage of gap junction channel structure and regulation with extensive coverage of the direct role of calmodulin in channel gating Delivers a thorough description of models proposed for the chemical gating of gap junction channels

Microscopy, Histology and Embryology in Cornell University Simon Henry Gage, 1905 Applied Anatomy Robert E. Habel, 1963 *New Books in the Veterinary Medicine Library* Ohio State University. Libraries. Veterinary Medicine Library, 1985

The American Biology Teacher , 2004

Implementing Problem-Based Medical Education Arthur Kaufman, MD, 1985-09-15 A Springer Series on Medical Education book This is a book about the origins design implementation and effects of the Primary Care Curriculum at the University of New Mexico School of Medicine It is also so much more It is a first person account of a moving human experience in which some deeply caring people search for

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