

Fetal Pig Dissection Lab

Introduction: In this lab you will be examining many characteristics of an unborn mammal: the fetal pig. Dissection will help you to get a 3-dimensional picture of how all the systems fit together in an entire organism. You've seen separate diagrams of many of the major systems. Now you'll get to see how they are all arranged spatially. You'll also get a better idea of the texture of many organs that make up the pig's system. For additional help at home:
<http://www.mhhe.com/labs/labserv/labserv/fetal.html>

This lab will be divided into the following lab components:

# 1- External Anatomy	# 5- Respiratory System
# 2- Oral Cavity	# 6- Urinogenital System
# 3- Digestive System	# 7- Nervous System
# 4- Circulatory System	

Materials: preserved fetal pig, dissecting pan, scissors, forceps, blunt probes, tissue/string, safety goggles, one pair of disposable latex gloves per dissection day, tape measure.

General Directions: All underlined words must be located on your pig and all numbered questions must be answered on cards of your packets. Your teacher will check the questions as you work through the lab exercises. Most cards can be done with the science. Dissection is an art and you must carefully dissect without destroying your pig. Keep all parts with your pig!

Pig Lab #1: External Anatomy: - see figures on pkt p. 6 and 15

You will be examining several characteristics of an unborn mammal. Use packet page 15 to review the directional terms for the pig. The period of gestation for the pig is 112-115 days.

The age of the fetus can be estimated by measuring the body length from the tip of the snout to the attachment of the tail on the pig's dorsal side. Compare this length to the data given on relative sizes of a fetal pig at different times during gestation or the time of development inside the uterus. (mm = millimeters)

21 days: 11 mm	56 days: 80 mm
35 days: 17 mm	100 days: 200 mm
49 days: 28 mm	115 days: 260 mm

Generally speaking, mammals are recognized and classified by their internal apparatus. The external features which separate mammals into orders include: the number of digits (toes or fingers) on the feet, method of walking or other locomotion, and characteristics of the teeth.

Mammals have two unique, external characteristics which distinguish them from all other vertebrates: (1) all mammals have hair at some time during their development, and (2) all female mammals possess mammary glands with external openings for nourishing offspring with milk. Your fetal pig probably does not have a lot of hair due to the fact that it is not fully developed yet. However, at maturity most pigs do have hair.

The lips around the mouth are well developed and the upper lip has a groove called the philtrum. Humans also have a philtrum. This is the indent underneath your nose and just above your upper lip.

The external nares (nostrils) are found on the nose.

Examine the ears. They have a flexible outer flap called the pinna. The pinna helps the pig hear by focusing the sound into the middle ear.

Many mammals have sensory facial hairs called vibrissae however, our pigs do not possess these yet. They are evident once a pig reaches maturity. They help organisms feel their way around in the dark. Vibrissae of dogs and cats are commonly called whiskers.

3 Safety Tips On Dissecting A Pig

Matthew Broderick



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Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors **Part -**

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Fetal Pig Fundamentals Meehan,Roberta M. Meehan,1992-03 **Fetal Pig Dissection** Connie Allen,Valerie Harper,2005-08-05 The laboratory guide directs students through a series of dissection activities for use in the lab accompanied by new full color photos and figures The guide can be used as a stand alone dissection guide or in conjunction with any *Anatomy and Physiology Laboratory Manual*

Cambridge IGCSE® Biology Practical Teacher's Guide with CD-ROM Matthew Broderick,2016-01-04 This edition of our successful series to support the Cambridge IGCSE Biology syllabus 0610 is fully updated for the revised syllabus for first examination from 2016 The Cambridge IGCSE Biology Practical Teacher s Guide complements the Practical Workbook helping teachers to include more practical work in lessons Specific support is provided for each of the carefully designed investigations to save teachers time The Teacher s Guide contains advice about planning investigations guidance about safety considerations differentiated learning suggestions to support students who might be struggling and to stretch the students who are most able as well as answers to all the questions in the Workbook The Teacher s Guide also includes a CD ROM containing model data to be used in instances when an investigation cannot be carried out

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*

Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections Patricia J. Donnelly,George A. Wistreich,1993 **Annot Inst Edit Lab Man Biol 3e /Campbell**

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