

Lab 10: Reproduction & Development
Next Week (Mon-4/16 & Fri-4/20) : Field Trip
-Meet on Graham Ave. near Handicapped Parking Lot
-Bring your manual and pencil
-Wear proper clothing and footwear for walking outdoors

Human Reproductive Structures pages 203-207

-review human structures and compare with pig anatomy that you observed in your specimens

Males: *testis, epididymis, vas deferens, seminal vesicle, prostate gland, bulbourethral gland, urethra, penis, scrotum*

Females: *ovary, fallopian tube(oviduct), fimbriae, uterus, cervix, vagina, clitoris, labium minora and majora*

-Use the male and female human reproductive anatomy models

-We will do a class dissection of an adult pig uterus (uterine horn) and look at the reproductive structures along with the membranes associated with the developing fetus

Introduction to Development pages 263

-Read about development and understand the terms *growth, differentiation, and morphogenesis*

-be familiar with *zygote, morula, blastula, blastocoel, germ layers (ectoderm, mesoderm, endoderm)*

-these stages are very similar in many organisms up to the point of late gastrulation

Chick Development, & Human Development pages 268-279

-Read section 20.3 and pay particular attention to the location and function of the 4 major extraembryonic membranes(*Chorion, Amnion, Yolk Sac, & Allantois*)

-We will do a class demo dissection of a 2 day and 4 day old fertilized chick egg

-observe contents under dissecting scope after discussion (use manual as reference)

-Study the slides in the back of the lab and compare developmental stages at 24-hr, 48-hr, 72-hr and 96-hr using the dissecting scopes (use manual as reference)

-BE SURE TO REVIEW ALL THE BOLD TERMS ASSOCIATED WITH EACH STAGE OF DEVELOPMENT

24 hr:

48 hr:

72 hr:

96 hr:

-Read section 20.4 and review stages of human development in manual

-pay attention to extra-embryonic membranes and compare to chicks

-identify similar and different developmental structures found in humans compared to chicks

-Review pictures of human development set up on front table

-Observe human development models on cart

-View **photos** (back of room) & **preserved specimens** (on cart) representing human embryonic development. Use lab manual to help you determine physical characteristics that are present at each stage.

Miracle of Life Video – take notes while you watch the video
Complete questions 1-10 on page 280