

Lab 10: Reproduction & Development

Next Week (Mon-4/17 & Fri-4/21) : Field Trip

- Wednesday students must sign up today for Friday (see me if there is a conflict)
 - Meet on Graham Ave. near Handicapped Parking Lot
 - Bring your manual and pencil
 - Wear proper clothing and footwear for walking outdoors
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Human Reproductive Structures pages 186-191

-review human structures and compare with pig anatomy from what you've already 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, labia 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 245-247

- Read about development and understand the terms *growth, differentiation, and morphogenesis*
- Omit the sea star development slides, but look over figure 19.1 to see developmental stages
 - be familiar with *cleavage, blastula, blastocoel, gastrulation, archenteron, germ layers (ectoderm, mesoderm, endoderm), and coelom*
 - these stages are very similar in many organisms up to the point of late gastrulation

Chick Development, & Human Development pages 250-262

- Read section 19.3 and pay particular attention to the location and function of the 4 major extra-embryonic 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
- Read section 19.4 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

Miracle of Life Video

- Complete worksheet that follows video

Complete questions 1-10 on page 262