# Lab 10: Reproduction & Development

pp. 202-207, 263-279, 280 (questions 1-5, 7-12)

-Next Week (Mon. -4/14- Thurs. 4/17): Field Trip

-Meet on Graham Ave. near Handicapped Parking Lot

-Bring your manual (C69-76) and a pen or pencil

-Wear proper clothing and footwear for walking outdoors – NO OPEN TOED SHOES

## **GOALS**:

- -Identify and know function of human male and female reproductive structures using plastic models.
- -Identify and know function of the female reproductive structures using the pig uterus specimen.
- -State the key differences between human and pig female reproductive structures.
- -Identify and state the functions of the extraembryonic membranes using pig fetus specimens.
- -Describe the basic stages of animal embryonic development.
- -Describe the anatomy of an unfertilized chicken egg.
- -Label the four extraembryonic membranes of chick and human on a diagram (p. 251).
- -Contrast the location & functions of extraembryonic membranes of humans and chicks (p. 250).
- -List physical characteristics present in chick embryo at 24 hr, 48 hr, 72 hr, and 96 hrs of development.
- -Identify the age of a chick embryo that has been preserved on a slide (24, 48, 72, or 96 hrs old).
- -List key characteristics found in human embryos at 5, 14, 17, and 20 weeks.

#### **KEY TERMS:**

Female	Male	(also found in humans)
ovary	testis	uterine horn
oviduct	epididymus	uterine body
uterus	vas deferens	cervix
cervix	bulbourethral gland	ovaries
vagina	urethra	oviducts
clitoris	bladder	placenta
bladder	penis	amnion
urethra	prostate gland	chorion
		allentois
		yolk sac

limb buds tail bud

Pia Uterus & Extraembryonic Membranes

Embryo zygote morula blastula grastula	Chick development chorion amnion yolk sac allantois shell chalaza albumen	Chick and Human development head fold primitive streak neural fold neural tube(groove) notochord somites heart vitelline vessels brain eye
		ear
		oui

## I. Movie: "The Miracle of Life":

-Answer questions on handout while you view the movie.

### **II. Human reproduction:**

-pp. 202-207: Read and use diagrams in lab manual. Be able to identify and know function of human male and female reproductive structures using plastic models.

## III. Pig uterus:

-View pig uterus demonstration. Take notes &/or listen carefully. Identify and know function of the female reproductive structures using the pig uterus specimen.

### IV. Development introduction:

-pp. 263-267: Read section to help understand key terms. You do NOT need to answer questions in your manual for this section.

## V. Chick development:

- -View the demonstration of living 2-day old chick embryo.
- -Open a 4-day old chick embryo following the directions given in class.

-pp. 268-277: Read and look at diagrams	book at diagrams. View <b>slides</b> of chick embryos at 24 hrs, 48 hrs, 72 hrs, 8 and diagrams to help you identify the following structures & <b>determine at</b>		
24hrs:	48hrs:		
701	001		
72hrs:	96hrs:		
	specimens representing human embryonic develop sysical characteristics that are present at each stage.		
14 weeks:			
17 weeks:			
20 weeks:			

#### VII. Review:

-p. 280: Answer questions 1-5, 7-12.