

Reproduction/Development Lab- 2008

1. Slides

1. Testis - Tunica albuginea, Leydig cells, seminiferous tubules containing basement membrane, spermatogonia, primary spermatocyte, spermatids, spermatozoa.
Examine at 100x, 400x
Read pages 461-462, 469-470, Fig 42.2, Fig 43.2. To find all structures see Rust p.79, 80
Which cell types are N (haploid)? 2N (diploid)?
Review p. 468-469 lab for spermatogenesis
2. Ovary -
Best view Rust p. 85-86, Lab p. 471-473, p. 738 Plate 55
Germinal epithelium, stroma (cortex and medulla), primordial follicles, antrum of follicle, Graafian follicles, Oocyte

Vagina – mucosa (what tissue type?), muscularis layer
Rust p. 89

4. Uterus - Rust p. 87-88, Read pgs 463-465 lab
Lumen
Endometrium - stratum functionalis (pink), stratum basalis (dark purple?)
Myometrium - very thick
Serosa
5. Development - Locate stages on p. 477-478 lab, Rust p. 92, using sea urchin slides for development. Many of the early stages you will see are identical to those for humans.

2. Cat Reproduction- Refer also to handouts provided

Female (p. 803). Look for ovary, suspensory ligament, uterine tube, mesometrium, uterine horn, bladder, urethra, uterine body, cervix, urogenital sinus, vestibule, vagina

Male (p.801). Look for: spermatic cords, testis, inguinal canal, tunica vaginalis, prostate gland, bulbourethral gland, urethra, epididymis, ductus deferens, scrotum, penis

3. Label Drawings

42.1, 42.2, 42.4, 42.5, 42.7, 43.2, 43.4

Also, there are some practice drawings to label on 709-714

You can work on these either in lab or later, but in this section anatomy is very important. I would give you any structure covered in the lecture or lab labeled on these figures.

4. Development - Demos/Fetuses

Note the normal and abnormally developed fetuses on display.

- 5. Torso** - Here is an excellent place to review anatomy of the reproductive system. Also, be sure to review the following structures of the mammary gland; adipose tissue, alveoli, lactiferous sinus, lactiferous duct, areola, nipple.

- 6. Lab Checkout:** This MUST be done before the final exam. You need to check your slide boxes against the master list, remove extra slides, and give me the list back with the missing slides circled. This will allow the boxes to be set up correctly for next year's class.

This is our last new lab for the semester. April 28th is the day of your last lab exam.

Thank you all for being a great group – it has been great fun teaching you!