

APHY 102
Structures for Lab Practical 3

The Urinary System

Kidneys

Ureters

Urinary Bladder

Four layers:

Mucosa of transitional epithelium

Submucosa

Detrusor muscle

Fibrous adventitia

Trigone

Urethra

Anatomy of the Kidney:

Renal capsule

Cortex

Medulla

Renal pyramids

Renal papilla

Renal columns

Calyces (calyx)

Renal pelvis

Renal artery/vein

Lobar artery/vein

Interlobar artery/vein

Arcuate artery/vein

Interlobular artery/vein -also called Cortical Radiate

Nephron and Vessels

Nephron

Renal corpuscle

Proximal convoluted tubule

Descending limb (loop of Henle)

Loop of Henle

Ascending limb (loop of Henle)

Distal convoluted tubule

Collecting duct

Vessels

Afferent arteriole

Efferent arteriole

Peritubular capillaries (cortex); Vasa recta (medulla)

Renal Corpuscle

- Glomerular (Bowman's) capsule
 - Parietal layer
- Afferent arteriole
- Juxtaglomerular apparatus
 - Juxtaglomerular cells
 - Macula densa cells
- Glomerulus
 - Capillary endothelium
 - Basement membrane
 - Visceral layer of Bowman's capsule
 - Podocytes
- Efferent arteriole
- Proximal convoluted tubule
- Distal convoluted tubule

The Reproductive System

Male Reproductive Anatomy

Testis

- Lobule
- Seminiferous tubules
- Rete testis
- Efferent ductules
- Epididymus

Spermatogenesis and Spermatozoa

- Spermatogonium
- Sustentocyte
- Spermatozoa

External Genitalia and Male Duct System

- Scrotum
- Epididymus
- Spermatic cord
 - Ductus (vas) deferens
 - Testicular artery/vein
 - Cremaster muscle
 - Inguinal canal
 - Seminal vesicles
 - Prostate gland
 - Ejaculatory duct
 - Urethra
- Bulbourethral glands

Penis

- Urethra
- Corpus spongiosum
- Corpus cavernosa
- Dorsal arteries/veins
- Glans
- Prepuce (foreskin)

Female Reproductive Anatomy

The Ovary

- Ovarian ligament
- Ovarian artery/vein
- Primordial follicle
- Oocyte
- Primary follicle
- Secondary follicle
- Graafian (vesicular) follicle
- Corpus luteum
- Corpus albicans

External Genitalia and the Female Duct System

- Mons pubis
- Labia majora
- Labia minora
- Clitoris
- Urethra
- Vestibular glands
- Vagina

Uterus

- Endometrium
- Myometrium
- Uterine cavity
- Broad ligament
- Round ligament
- Cervix
- Fundus
- Body

- Uterine (Fallopian) tube
- Fimbriae

The Breast

- Areola
- Areolar (Montgomery) glands

Nipple

Lobes

Lobules

Alveoli

Lactiferous ducts

Lactiferous sinuses (ampulla)