A215 Lab - Scope Day 14

Urinary Histology
Kidney

• Composed of over one million nephrons

• Kidney made of 3 layers
  – Renal capsule - outer covering
  – Cortex - outer region containing renal corpuscles
  – Medulla - inner region w/o renal corpuscles
Nephron
Filtration Component

• Renal Corpuscle
  – glomerulus
  – glomerular ("Bowman’s") capsule
  – capsular space
Nephron

- Proximal Convoluted Tubules - w/ microvillus border
- Nephron Loop (Loop of Henle)
- Distal Convoluted Tubules
  - macula densa
Kidney Blood Flow

- Arteries
  - Renal Arteries
  - Interlobar Arteries
  - Arcuate Arteries
  - Interlobular Arteries
  - Afferent arterioles
  - Efferent arterioles
  - Peritubular Capillaries
  - Vasa Recta
Transport and Storage

- Transitional Epithelium lined
- ureters
  - 2 layered muscularis
- urinary bladder
  - 3 layered muscularis
Adrenal Gland

- Located superiorly to kidneys and surrounded by a mass of adipose tissue
- 2 Regions
  - Outer Cortex
  - Inner Medulla