18B: Excretory System

- Excrete (get rid of) wastes (liquid and gas)
 - carbon dioxide, water, salt, urea and uric acid
 - -NOT SOLID WASTE (egestion=feces)

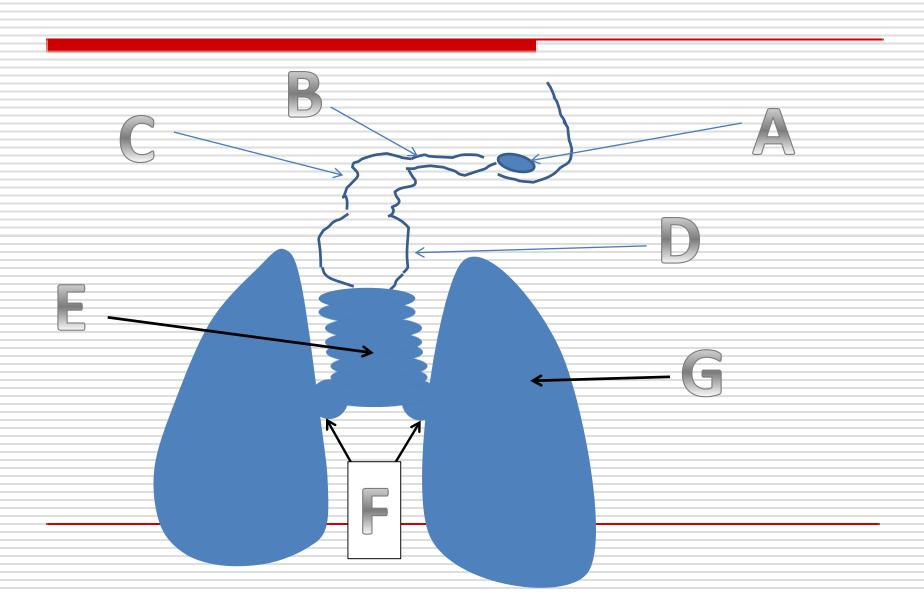
#19: Parts of Excretory Sys.

- Skin-removes excess water, salt, urea
- Lungs- removes CO₂ and excess heat by breathing
- Kidney and Liver- Filters (urea, toxins)
 from BLOOD

#20: Respiration

- The process by which a body gets and uses oxygen and releases carbon dioxide and water.
- Cellular Respiration is when the <u>Mitochondria</u> releases energy stored in glucose (sugar / C₆H₁₂O₆)

#21: Parts of Respiratory Sys.



Back of #21

- A- Nasal passage / nostril
- B- nasal cavity
- C- Pharynx
- D- Larynx
- E- Trachea
- F- Bronchioles
- G- Lung

#22: ALVEOLI

- Tiny sacs in lungs surrounded by capillaries (blood vessels)
- Diffusion / gas exchange occurs
 - -oxygen enters bloodstream
 - —carbon dioxide and water vapor exits

#23: Diaphragm and Epiglottis

- Muscles that contract involuntarily
 - DIAPHRAGM: located at the base of chest cavity contracts to enlarge volume and draw air into Lungs
 - EPIGLOTTIS: located at back of throat contracts when swallowing to prevent food / liquids from entering trachea / lungs

#24: Respiratory Diseases

- VIRAL INFECTIONS within the lungs that make it difficult to breath
 - SARS
 - Influenza ("Flu")
- Bronchitis bacterial infection that causes bronchi to swell
- Emphysema damage alveoli can't absorb oxygen efficiently from habitual smoking