

Anatomy Final Review

PET 3322

The Respiratory System

Functions

1. Regulation of blood pH
2. Production of chemical mediators
3. Voice production
4. Olfaction
5. Protection

Flow

Nasal cavity -> Pharynx -> Larynx -> Trachea -> 1° bronchi -> 2° bronchi
-> 3° bronchi -> Bronchioles -> Alveoli

Parts of the Respiratory System

- Nasal Cavity – interior part of nose
- Pharynx – passageway for air/food, resonating chamber, stores tonsils
- Larynx – Passage way for air between the pharynx and trachea - includes the unpaired thyroid cartilage (aka Adam's Apple)
- Trachea – “Windpipe”
- Primary (1°) bronchi – main bronchi – each extend to a lung (right is bigger than left)
Carina triggers the cough reflex.
- Secondary (2°) bronchi – lobar bronchi – within the lung (2 in left 3 in right) supply the lobes and segments of each lung
- Tertiary (3°) bronchi – Segmental Bronchi
- Bronchioles - end in terminal bronchioles
- Alveoli – Gas exchange between blood and air