

Respiratory System

Functions:

- 1°: gas exchange: need thin blood-air barrier, high surface area
- 2°: smell, sound production

Wall structure: layers vary by region

Layers: mucosa

- epithelium/basement membrane
- lamina propria
- muscularis mucosa
- submucosa

Respiratory epithelium

Regions:

Conducting part: airways

extrapulmonary

- nares
- vestibule
- nasal cavity
- olfactory epithelium
- nasopharynx
- epiglottis
- trachea
- primary bronchi

intrapulmonary

- bronchi
- bronchioles
- terminal bronchioles

Respiratory part: gas exchange

- respiratory bronchioles
- alveolar ducts
- alveolar sacs
- alveoli