A251 Lab - Scope Day 11

Lymphatic and Respiratory Histology
Lymphatic Organs

• Lymph nodes
  – 2 Regions
    • Cortex - Outer Region
    • Medulla - Inner Region

• Spleen
  – Red Pulp - sinuses filled with RBC’s
  – White Pulp - light staining center (usually around a small blood vessel)
Respiratory Histology

• Respiratory system divided into 2 sections
  – Conducting portion
    • lined by pseudostratified ciliated columnar epithelium
  – Respiratory portion
    • Section involved with gas exchange
    • Areas of simple squamous epithelium
Conducting Portion

- Trachea
  - mucosa (inner)
  - submucosa
  - hyaline cartilage
  - adventitia (outer)
Conducting Portion

- **Tertiary bronchus**
  - hyaline cartilage plates (non-continuous)
- **Bronchiole**
  - NO hyaline cartilage present
  - simple columnar/cuboidal epithelium
Respiratory Portion

• Respiratory bronchioles
  – Alveoli (structures of gas exchange) scattered along wall

• Alveolar ducts
  – Alveoli continuous along wall

• Alveoli
  – Site of gas exchange between respiratory and circulatory systems