

## Introduction to Anatomy

- **Microscopic Anatomy**- Cytology, Histology
- **Gross (Macroscopic)Anatomy**-Surface, Regional, Systemic
- **Embryology,Comparative Anatomy**- Emphasizes morphology
- **Anatomical specialties**-Medical/Surgical, and Radiographic Anatomy

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## Physiology

- **Renal**
- **Neuro**
- **Cardiovascular**

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## Levels of Organization

- **Chemical**
- **Cellular**
- **Tissue**
- **Organ**
- **System**
- **Organism**

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## Necessary Life Functions

- **Maintaining boundaries**-internal/external
- **Responsiveness**-stimuli/response
- **Movement**-somatic/visceral
- **Growth**-increase in biomass/differentiation
- **Digestion**-breakdown of ingested food
- **Metabolism**-sum of biochemical processes
- **Excretion**-waste products
- **Reproduction**-cellular/organismal levels

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## The Language of Anatomy

- Anatomical position
- Axial
- Appendicular part

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## Body Planes and Sections

- Sagittal:mid, para
- Frontal/Coronal
- Transverse/Horizontal

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# Directional Terminology

- *Posterior/Dorsal*
- *Anterior/Ventral*
- *Superior/Cranial*
- *Inferior/Caudal*
- *Lateral*
- *Medial*
- *Proximal*
- *Distal*
- *Superficial*
- *Deep*

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## Body Cavities

- Dorsal-cranial, vertebral
- Ventral-thoracic (pleural, pericardial), abdominopelvic

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## Membranes in Ventral Body Cavity

- Visceral serosa
  - Parietal serosa
  - Serous fluid
  - Organ association
- Pericardium*
- Pleura*
- Peritoneum*

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## Abdominopelvic Regions

- *Umbilical region*
- *Epigastric region*
- *Hypogastric region*
- *Inguinal regions (right/left)*
- *Lumbar regions (right/left)*
- *Hypochondriac regions (right/left)*

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## Abdominopelvic Quadrants

- *Right Upper*
- *Left Upper*
- *Right Lower*
- *Left Lower*

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