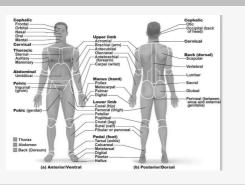
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#### **Directional Terms**

Anterior	front of the body, in front. ie nose					
Posterior	back of the body, behind ie gluteus					
Deep	beneath layers of tissue, closer to internal organs or bone ie heart					
Superf- icial	closer to the surface of the skin ie ribcage is superfical to heart					
Distal	further from the midline ie appendages					
Proximal	closer to the midline ie elbow is proximal to phalanges					
Medial	lial towards the center of the body					
Lateral towards the side of the body, away from the center						
Superior	top of the body ie head					
Inferior	bottom of the body ie legs					

#### **Body Regions**



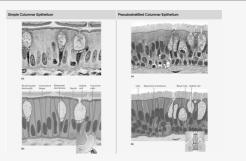
#### Pleura and Pericardium



#### **Epithelial Tissue**



#### Epithelial Histology



#### Simple Epithelium Location and Function

#### b) GUIRE 5.4 Simple Squamous Epithelium. Sense of frei sin Assime (=4000, (x) Light micrograph, (b) Labered drawing, ( Dennis Santa McGraw-Hill Education

proctined; LM Moham Magnitudes) Managenetic generation: Taylo layer of the shit ships of La Ford equilibrium are badge antern nurses in Science charles datament on the generation of Lie and equipy charles and equipart contains and moham failed sectors: In unifies view, calk have angular contains and moham failed interpretation by Laboration and the soin layer than the soin the set interpretation by Laboration and the soin layer and the solid set without a solid sector of the solid sector of the solid sector of the viewed is reason annihilation and moham of the solid selector viewed interpretation and the solid databases in the solid databases that the Mathematica and and databases in the solid databases that the solid motion of the solid databases in the solid

#### FIGURE 6.5 Simple Caeded Epithelium, Notwy tables (~4005 ja) Light micrograph, B) Labeled driving: APPR a Denne Streich Microwelli Bocarion APR Module 3: Tissues: histology: Pseudostratified Columnar phtholium: LIA: Modulim Magnification

Microscopic appearance: Single layer of square or round cells; in glands, cells often pyramical and arranged like segments of an orange around a central space; spherical, centrally placed nuclei; with a brush border of microvill in some kidney subules; cilitated in bronchioles of

Representative locations: Liver, thyroid, mammary, salivary, and other glands; most kidney tubules; bronchioles E Functions: Absorption and secretion; production of protective mucou

#### Simple and Pseudeostratified Epithelium

#### Maccoss of the small

A Et innovation ways the second se



croscopic appearance. Looks multilayered, some cells do not reach e surface, but all cells reach bosoment membrane, mulcel is exerned wis in desepe hard of aphthum, often with goldet cells, allow claiked presentative bootform. Beginstery tract from nesal cavity to brench; ridoms of make untiltra contoms. Secretise and propels mucus.

#### Stratified Squamous Epithelium



PIGURE 5:0 Noniversitized Statified Squareous Epithelium. Maccoss of the ways (+466; pt. laper netrograph: pt. Labeled inswing APR at CEX Reaction APR Module 3: Tissues: histology: Transitional Epithelium: 1 M Meri

Microscopic appearance: Same as kensitabled optihelium but without the surface layer of deter cells Representative bootstoms: Torogun, cell muccoal, ecophagus, shall canal, ragina Munctione: Resists abrasion and pervetation by pathogenic organism. here 14

## we especially Punctions: Resists abrasion and penetration ogenic organisms;

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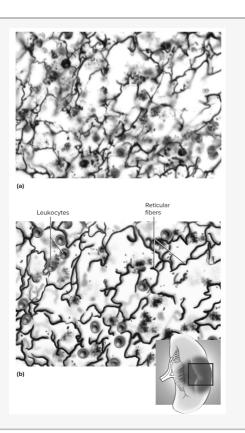
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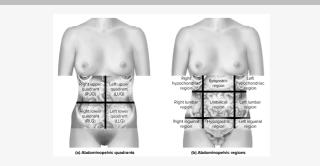
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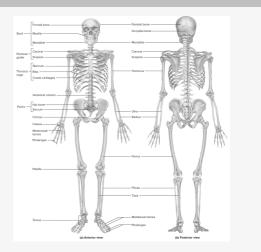
#### Abdominal Regions



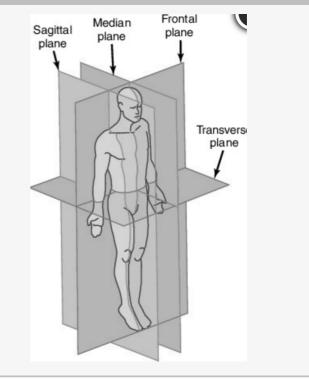
Planes of Histological Section						
Longit- udinal	cut on long axis					
Cross/- Tra- nsverse	cut perpendicular to long axis					
Oblique	cut on a slant between a longitudinal and cross section					
Fixative	prevents decay/holds sample together (i.e. formalin)					
Stain	add stains to provide contrast between tissues or components of cells					
Section	<ul> <li>tissue sliced into thin sections 1-2 cells thick (NOTE: sometimes you use smears instead of sections)</li> </ul>					
Body Position						

-	
Supine	back on the ground, facing up
Prone	chest on the ground, facing down
Anatomical	Person standing with both feet on the ground, arms at
Position	the side with palms facing forward

#### Appendicular and Axial Skeleton



#### **Planes of Section**



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Primary Tissues			Primary Tissues (cont)				
Epitheal	Closley adhering cells, one or more cells thick with upper surface usually exposed to environment or interal surface of the body. Covers body surface, lines body cavities, forms external and internal linings of many organs and consitutes most	Functions include protection, secretion, excretion, absorption, filtration, sensation	Location: epidermis, inner lining of digestive tract, liver and other glands	Nervous	Specia- lized for commun- ication by means of chemical and electrical signals.	Functions: Neurons detect stimuli quickly and transmit information to other cells. Neuroglia protect and assist neurons. Neurosoma houses the nucleus. Its the center for protein synthesis and genetic control. Dendrites recieve signals from other cells and sends them to neurosoma. Nerve fibres send out signals.	Location: brain, spinal cord, nerves
Connective	gland tissue Most abundant, widely distributed, histologically variable. Includes fibrous, adipose, cartilage, blood and bone. Cells are not in direct contact but surrounded by a matrix	Functions include binding of organs, physical and immune protection, support, movement, storage, heat produc- tion, transport.	Location: tendons and ligaments, cartilage and bone, blood	Muscular Connective	Composed of elgonated, excitable tissue specia- lized for contra- ction e Tissues: Fib		skeletal muscles, heart, walls of viscera (smooth muscle)

C

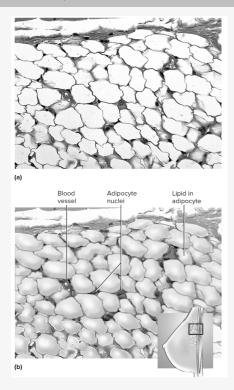
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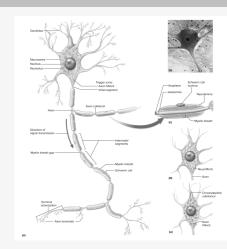
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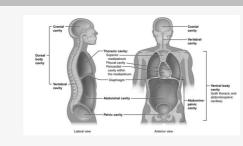
#### Connective Tissue: Adipose Loose



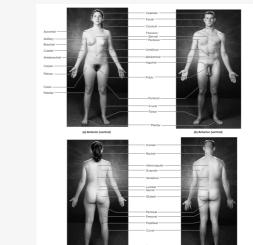
#### Nervous Tissue

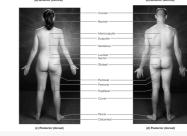


#### **Body Cavities**



#### **Body Regions**

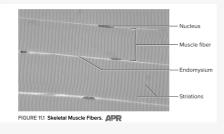




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Muscle Tissue: Skeletal



#### Muscle Tissue: Smooth

