

Lab # 2 Histology

EPITHELIAL TISSUE:

*Simple Squamous Epithelium

-slide: frog skin (surface view) (lab 28 & 51)

Labels: nucleus, cytoplasm, plasma membrane
& Simple Squamous Epithelium

*Simple Cuboidal Epithelium

-slide: kidney (Lab 51)

Labels: n, c, pm, & simple cuboidal epithelium

*Simple Columnar Epithelium

-slide: Columnar Epithelium (Lab 52, Plate 1)

Labels: simple columnar epithelium, goblet cells, conn. tissue

*Pseudostratified Ciliated Columnar Epithelium

-slide: trachea (Lab 52)

Labels: Pseudostratified Ciliated Columnar Epithelium,
goblet cells, basement membrane, cilia, conn. tissue

*Stratified Squamous Epithelium

-slide: Meissner's corpuscle (Lab 53, Lab 68-74)

Labels:

epidermis stratum corneum, stratum granulosum (3-4 darker cells thick),
stratum spinosum, stratum basale (1 cell thick)

dermis dermal papilla

hypodermis with adipocytes

(Note: It is only the epidermis that is stratified squamous epithelia. The dermis and hypodermis consist largely of connective tissue.)

Integumentary system: example of an organ that contains stratified squamous epithelium

-slide: Scalp (Lab 68-74)

Labels: epidermis, dermis, hypodermis

In dermis, be able to label: hair root, hair follicle, papilla of a hair

sebaceous (oil) gland-group of white cells attached to follicle

eccrine (sweat) gland -- clusters, or coils of purplish cells not attached to the follicle

Integument models (Lab 68):

Know all of the above labels except the individual strata of epidermis

MUSCLE TISSUE

*Striated Muscle:

-slide: skeletal muscle (lab 64, Plate 2)

labels: striated muscle fiber (cell), sarcoplasm

NEURAL TISSUE:

-slide: Giant Multipolar Neuron (lab 65, plate5)

labels: neuron, neuroglial cell, dendrite, perikaryon