

Cell Model

Secretory Vesicle

Smooth Endoplasmic Reticulum

Mitochondria

Fat Vacuole

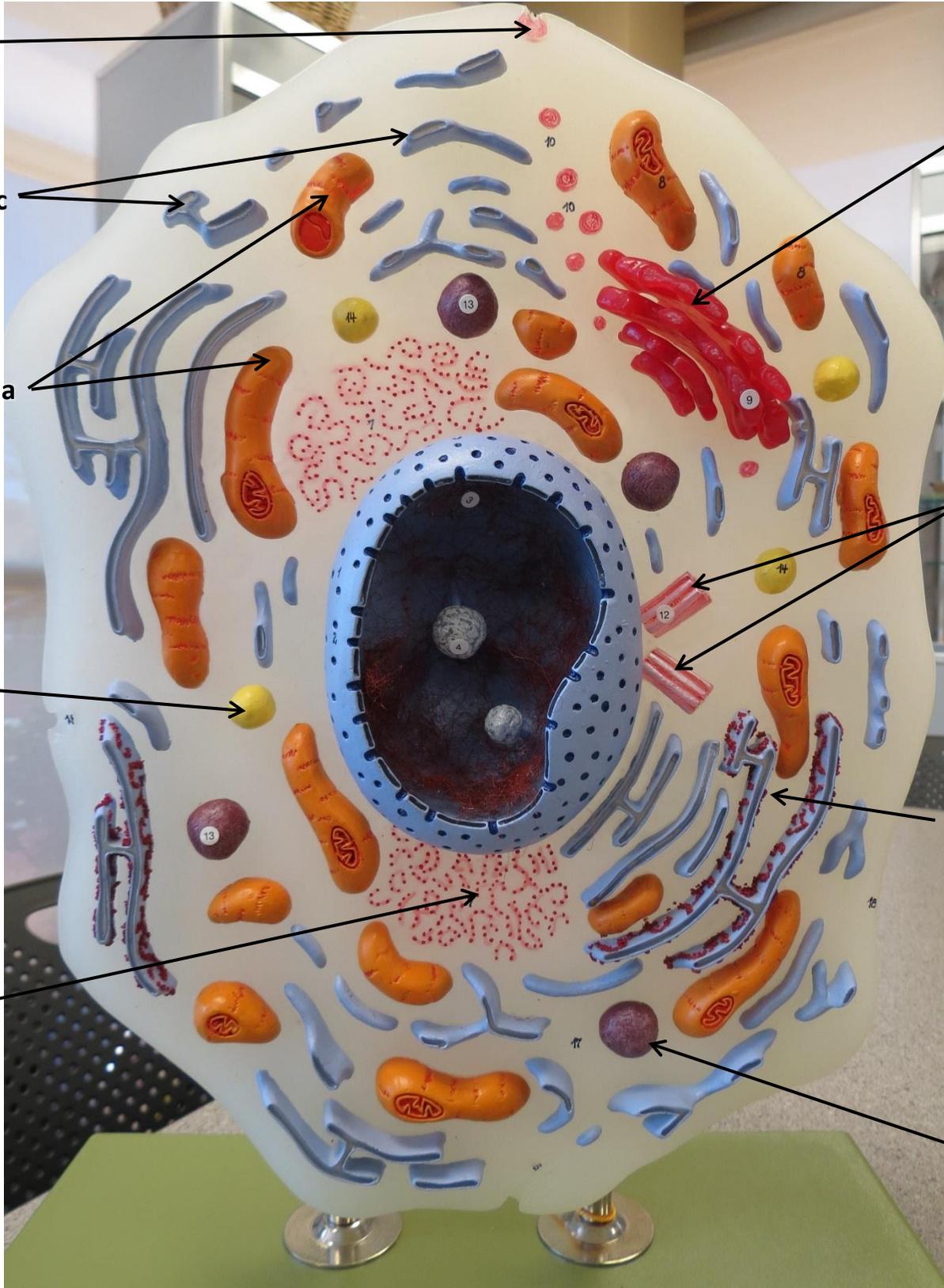
Ribosomes

Golgi Apparatus

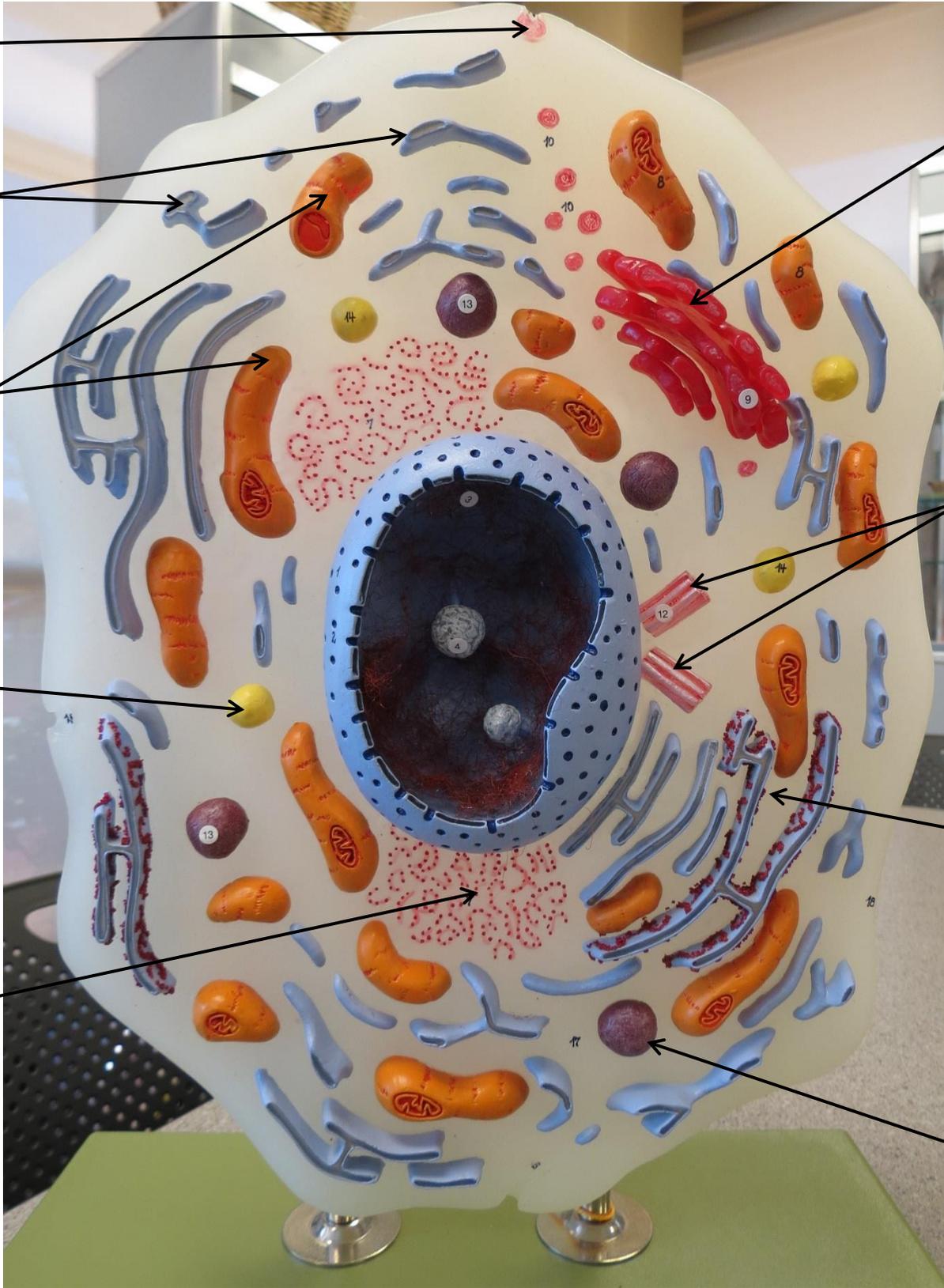
Centrioles

Rough Endoplasmic Reticulum (Note Ribosomes)

Lysosome



Cell Model



MITOSIS SLIDES



INTERPHASE



**EARLY
PROPHASE**



**LATE
PROPHASE**

MITOSIS SLIDES

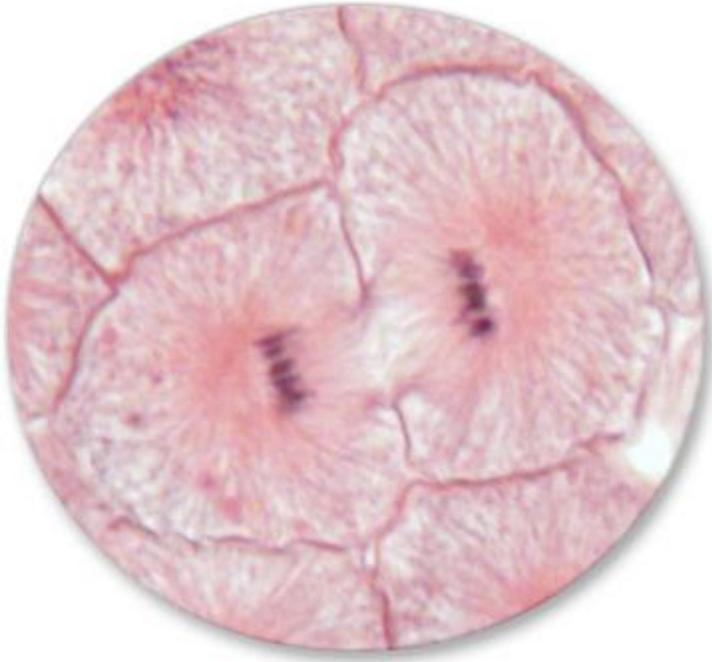


METAPHASE



ANAPHASE

MITOSIS SLIDES



TELOPHASE

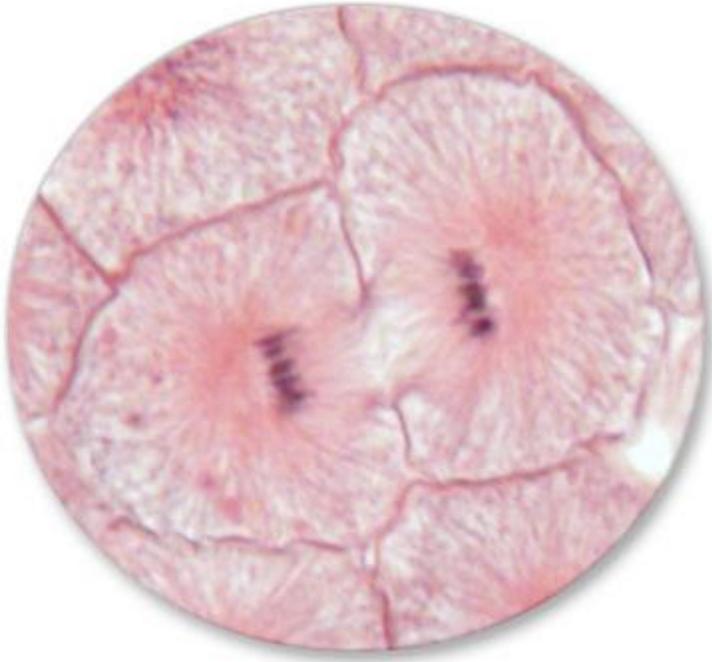
MITOSIS SLIDES



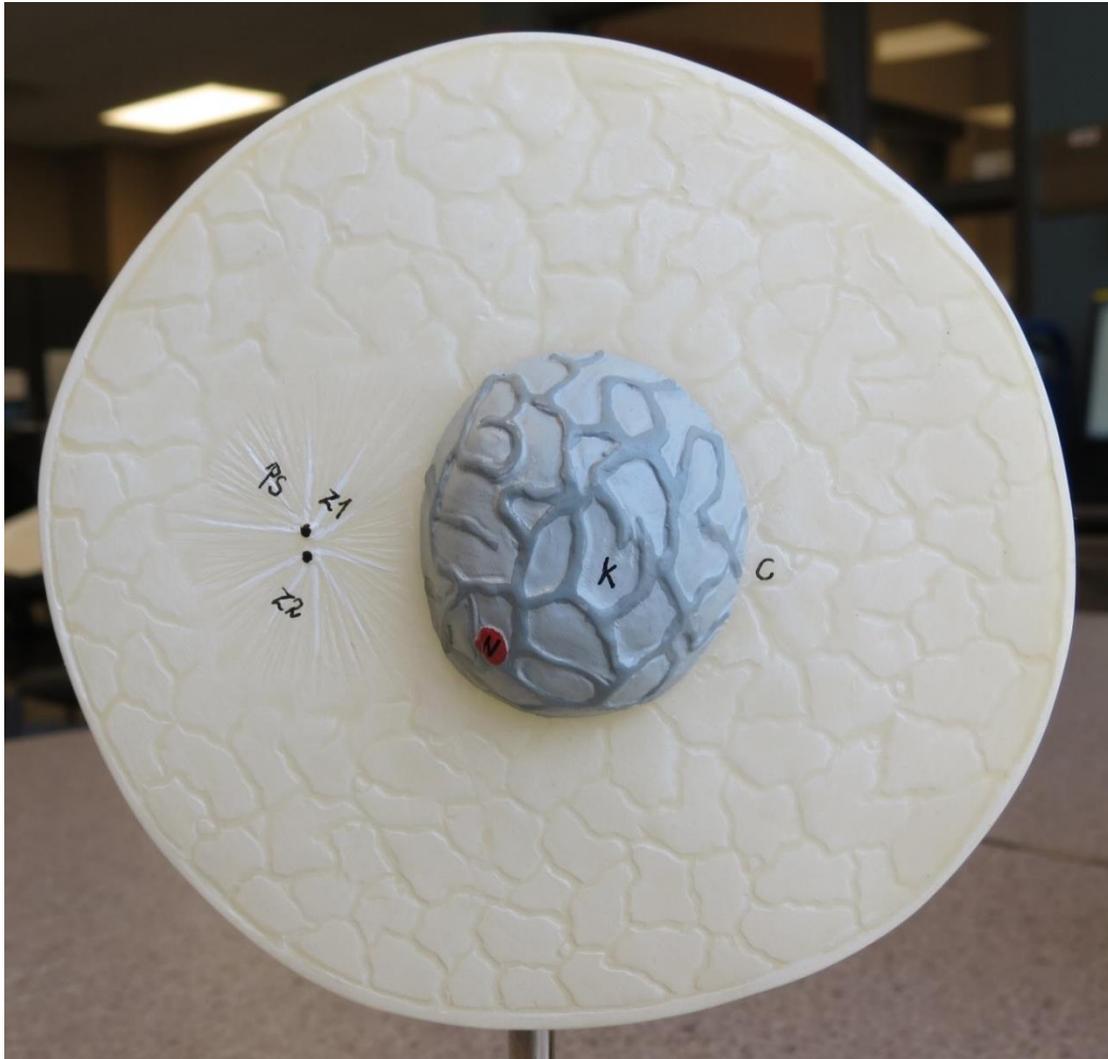
MITOSIS SLIDES



MITOSIS SLIDES



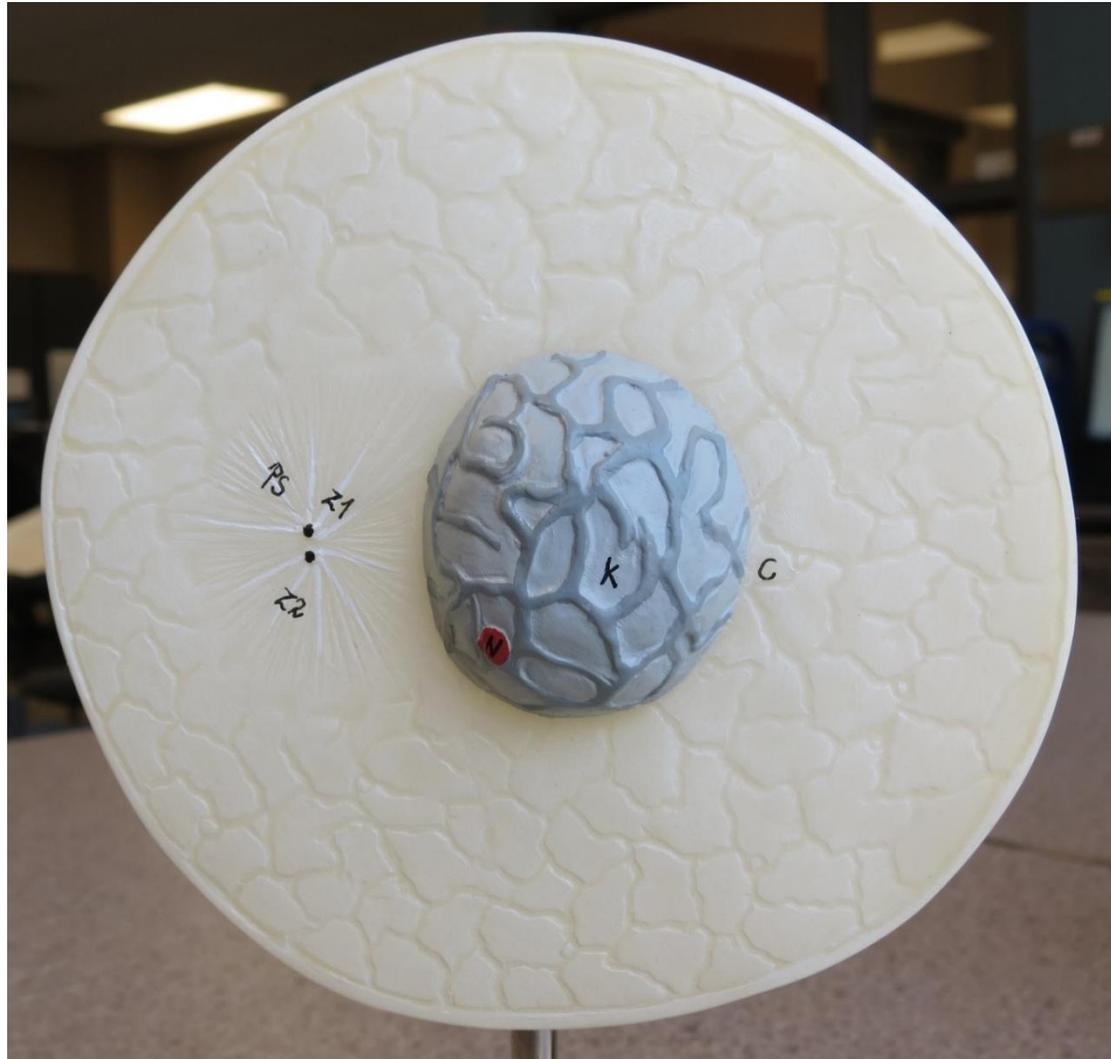
MITOSIS MODEL



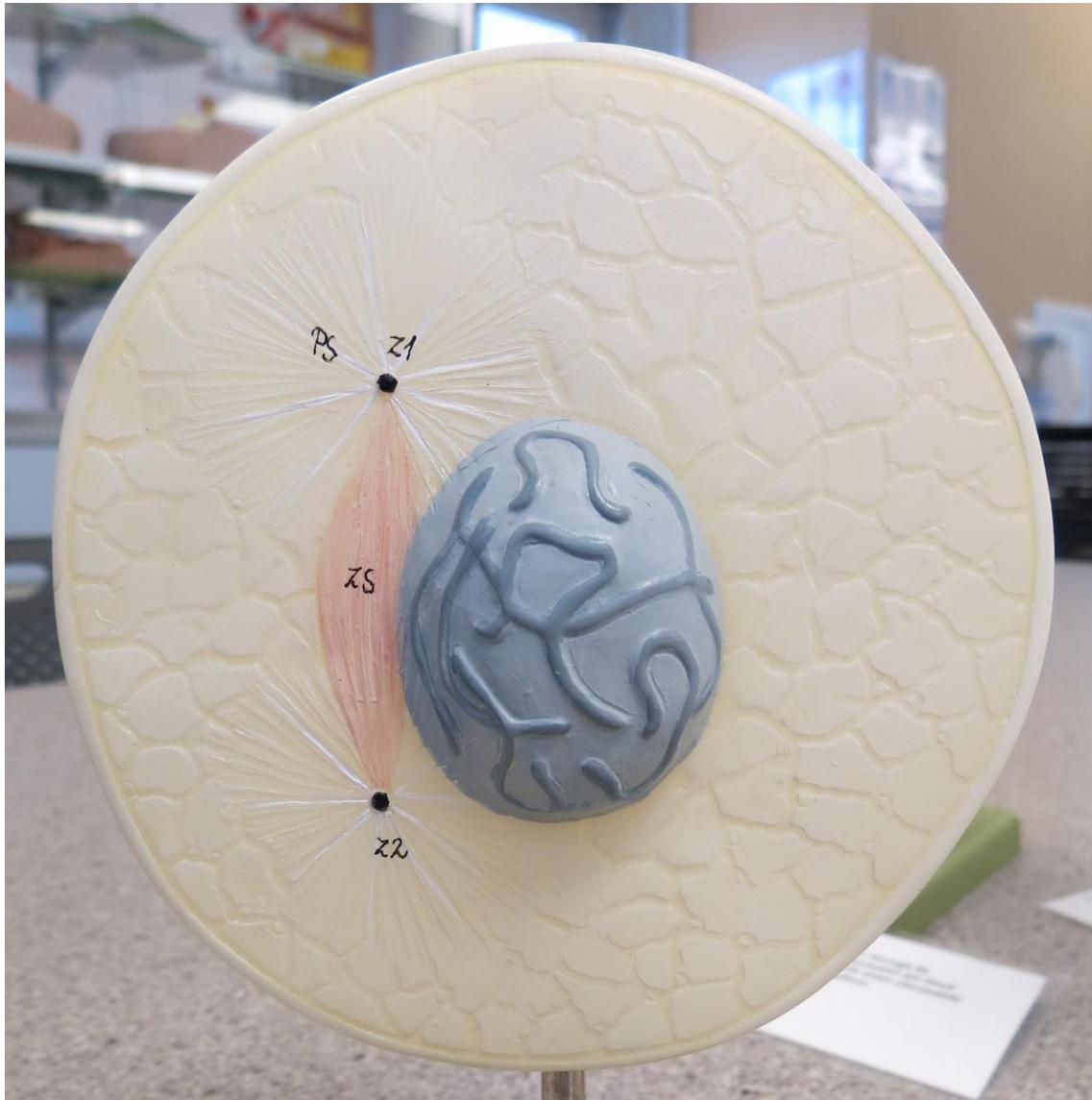
**Nucleus is intact.
Centrioles are close
together**

Interphase

MITOSIS MODEL



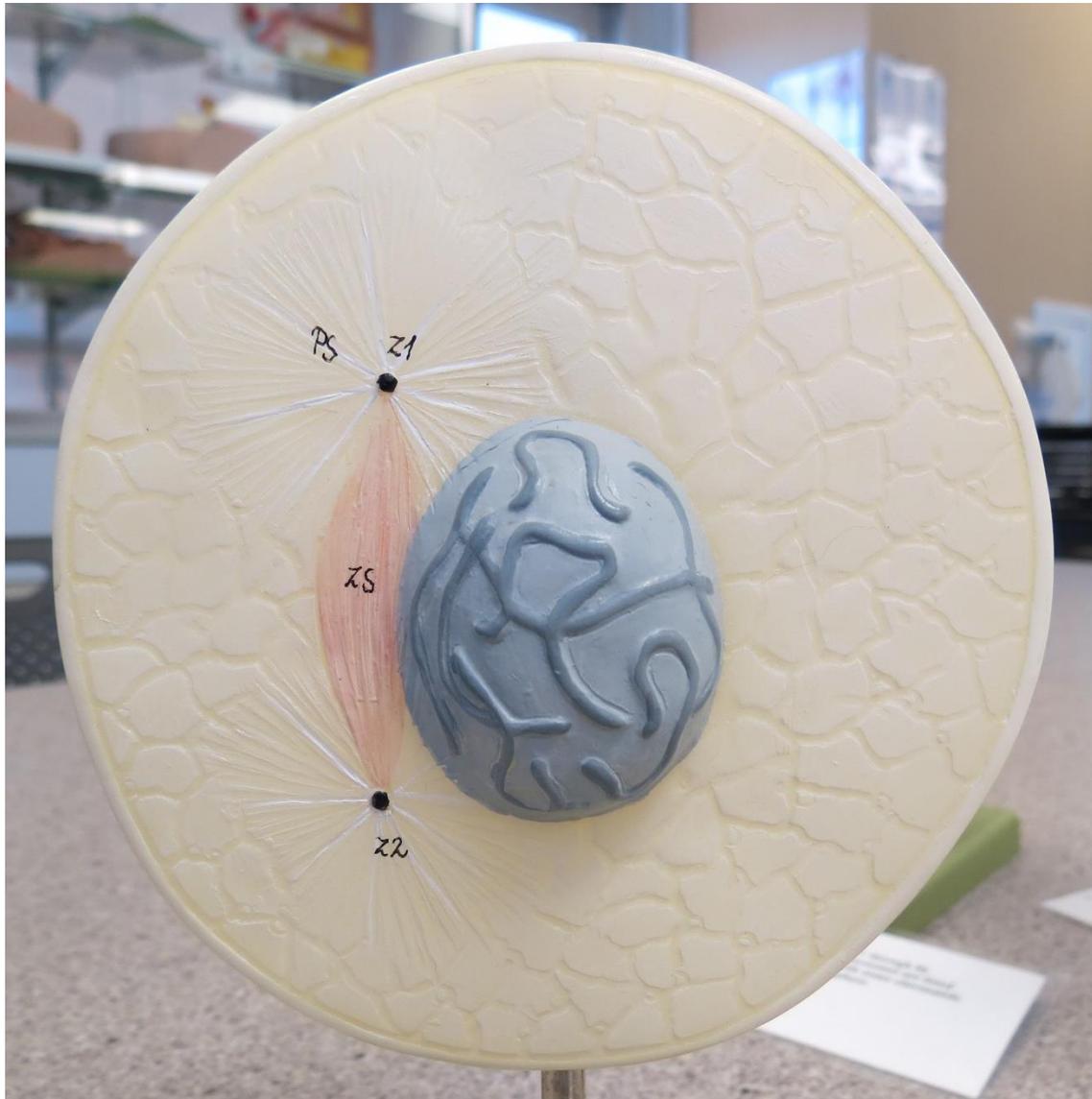
MITOSIS MODEL



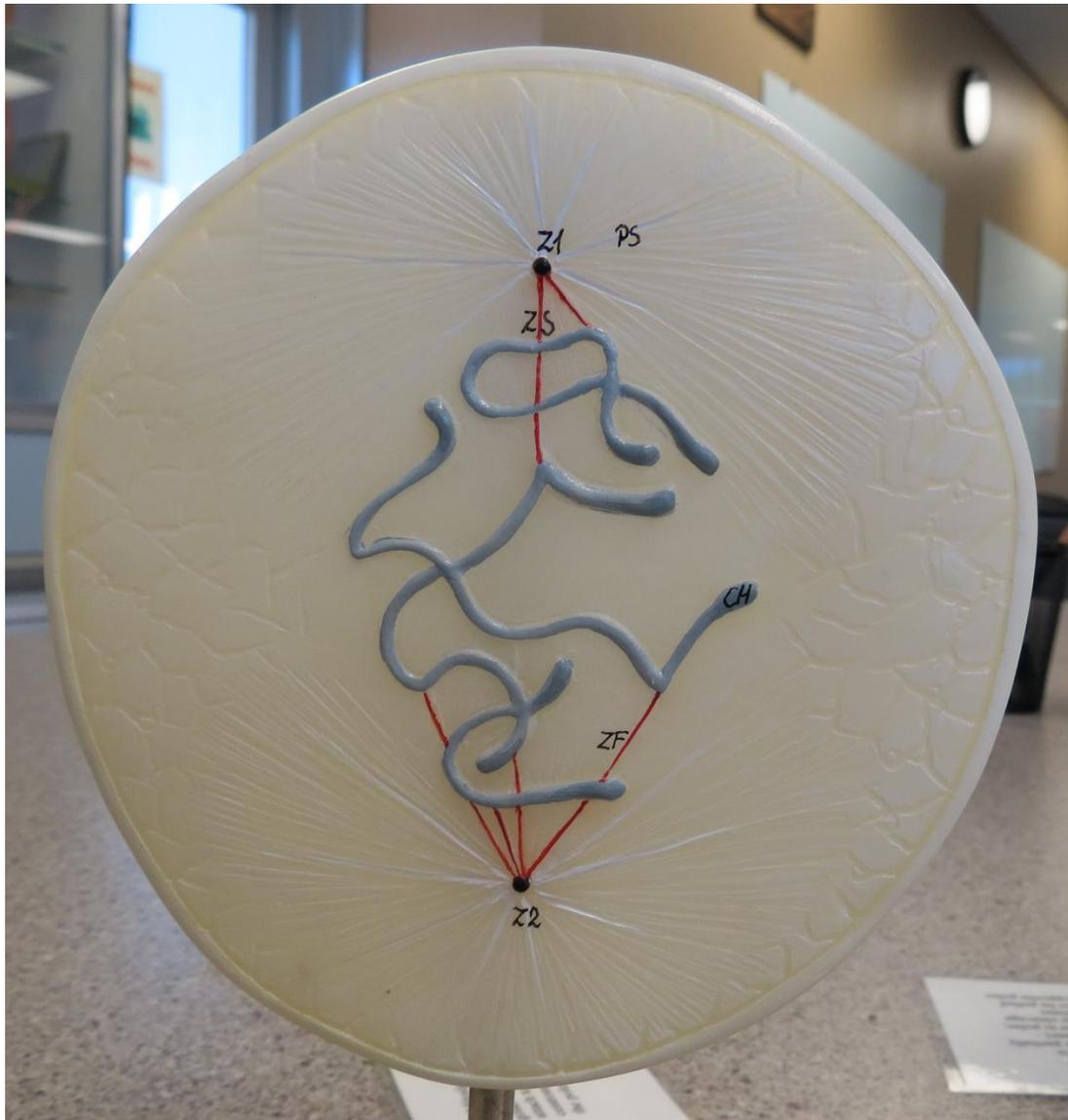
Centrioles are moving apart. Nucleus (with chromatin) is still intact.

Early Prophase

MITOSIS MODEL



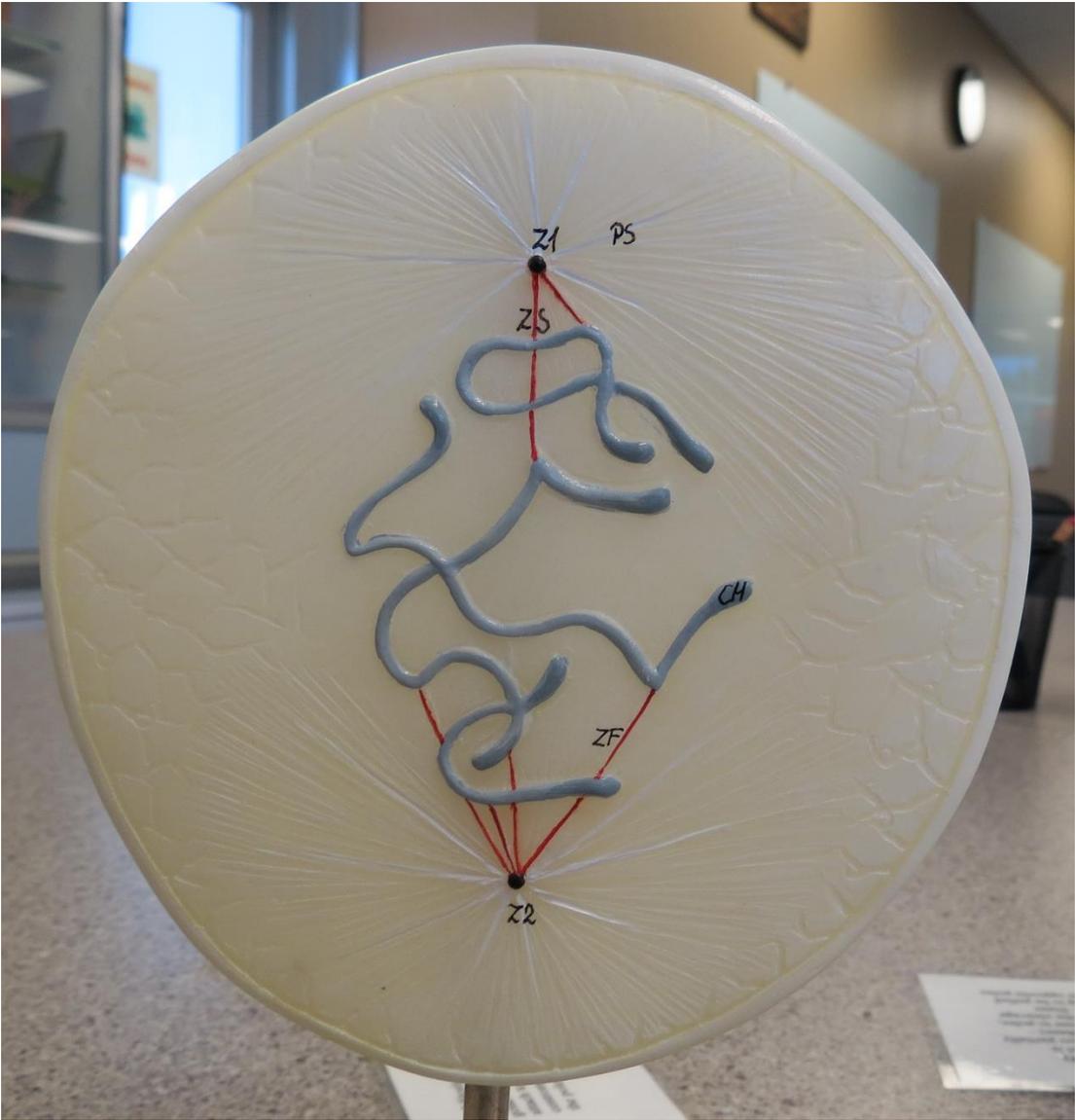
MITOSIS MODEL



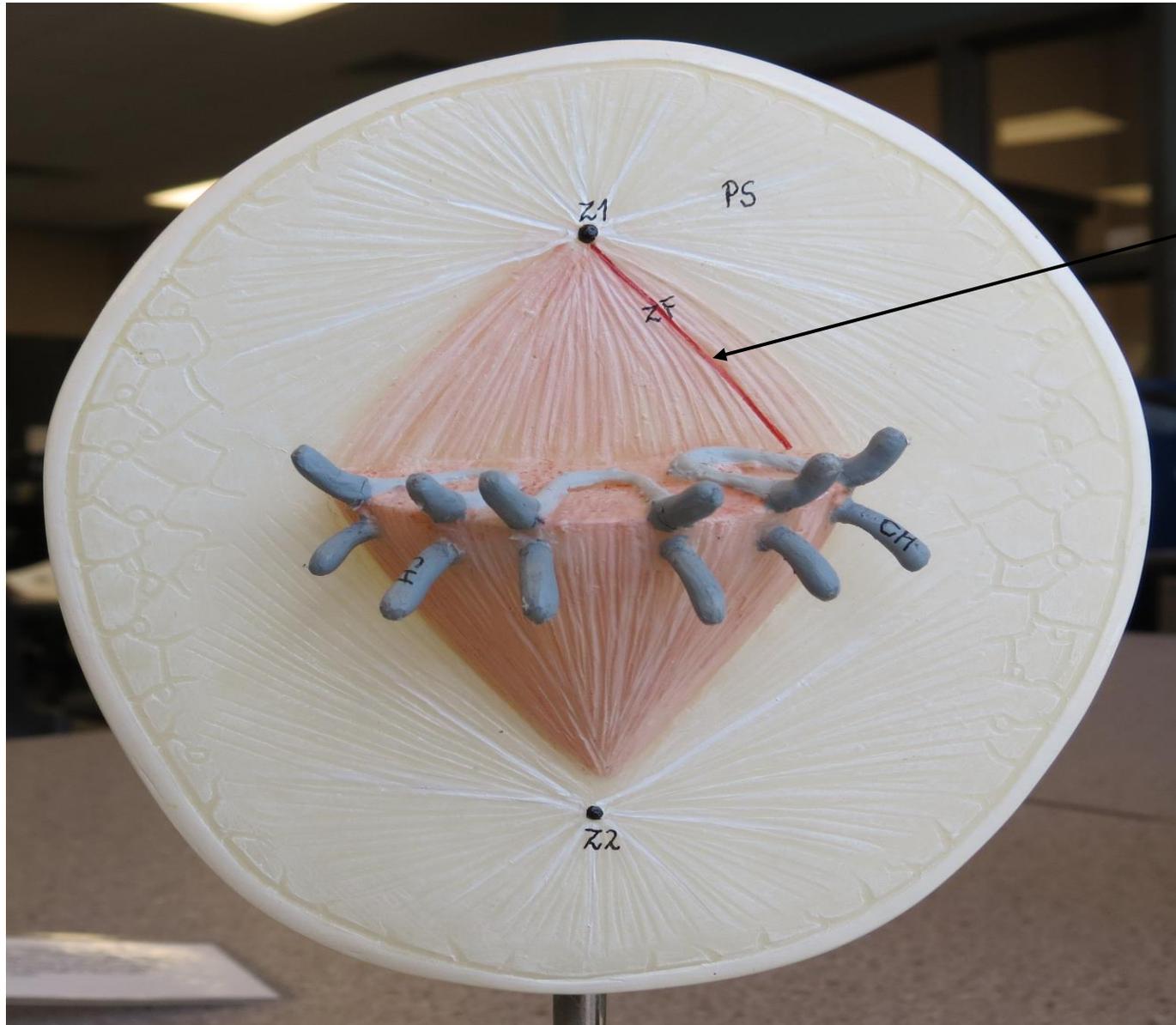
Centrioles are at opposite ends. Nucleus breaks apart, forming chromosomes.

Late Prophase

MITOSIS MODEL



MITOSIS MODEL

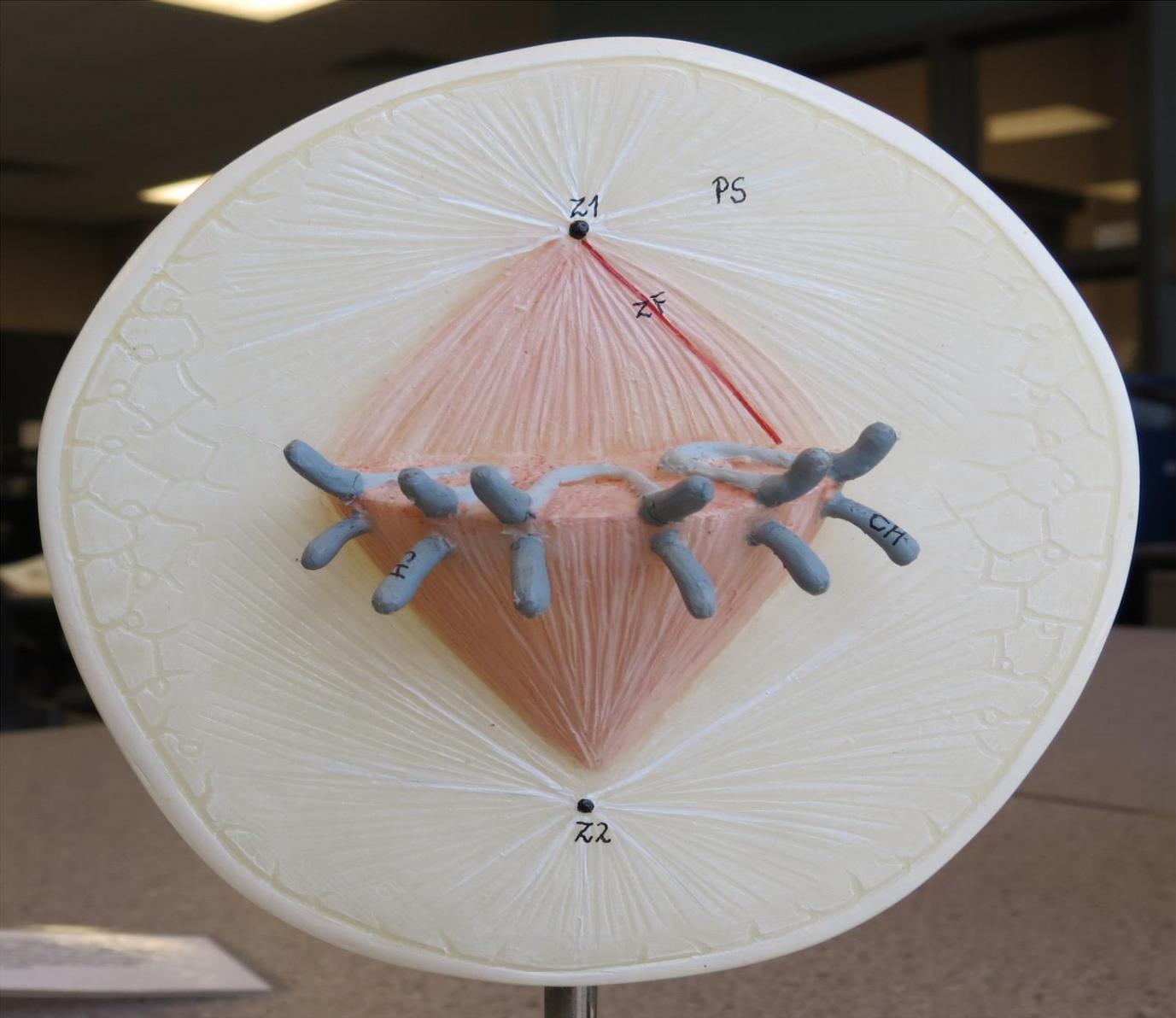


Spindle Fiber

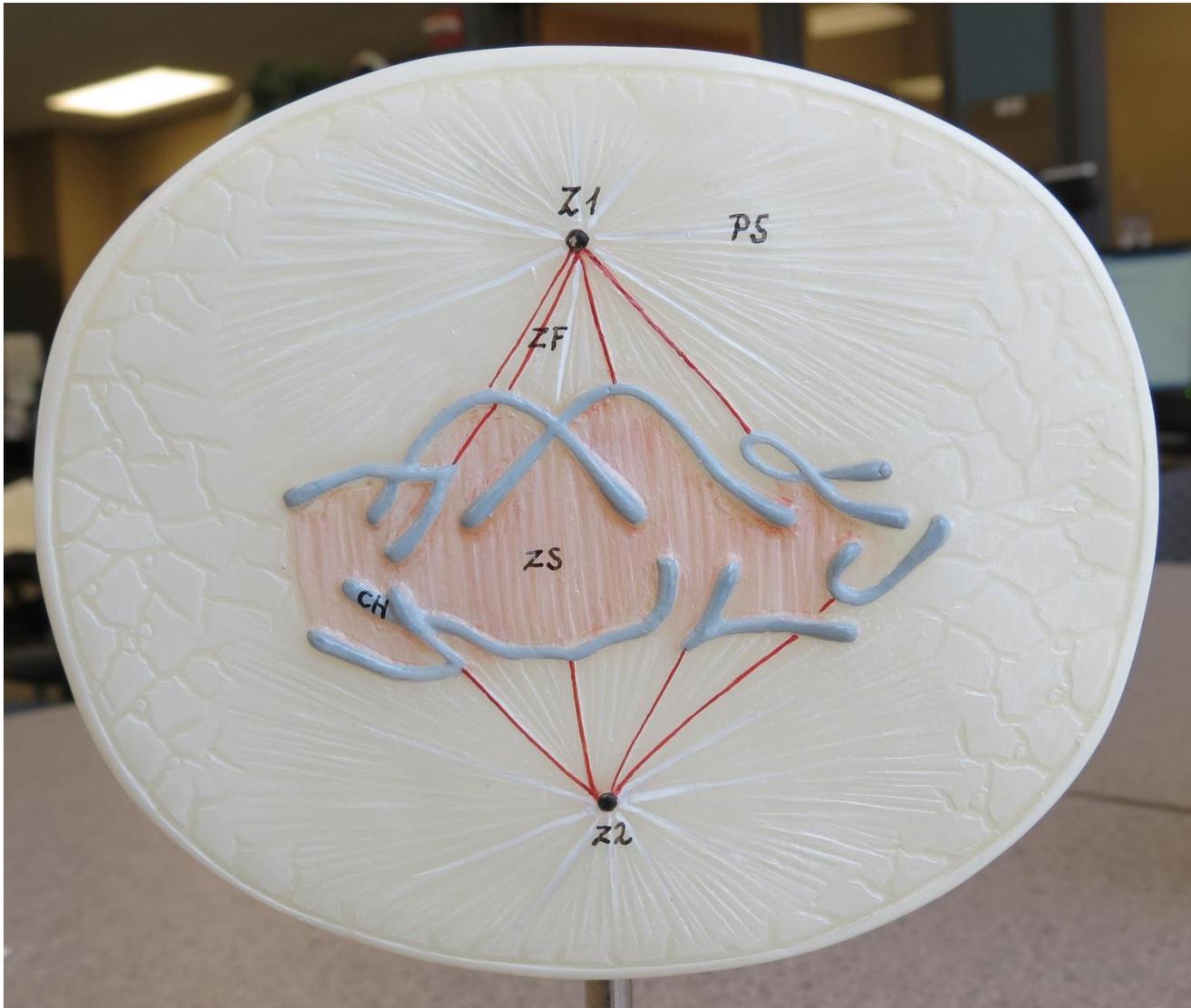
Chromosomes are aligned in the middle of the cell forming sister chromatids.

Metaphase

MITOSIS MODEL



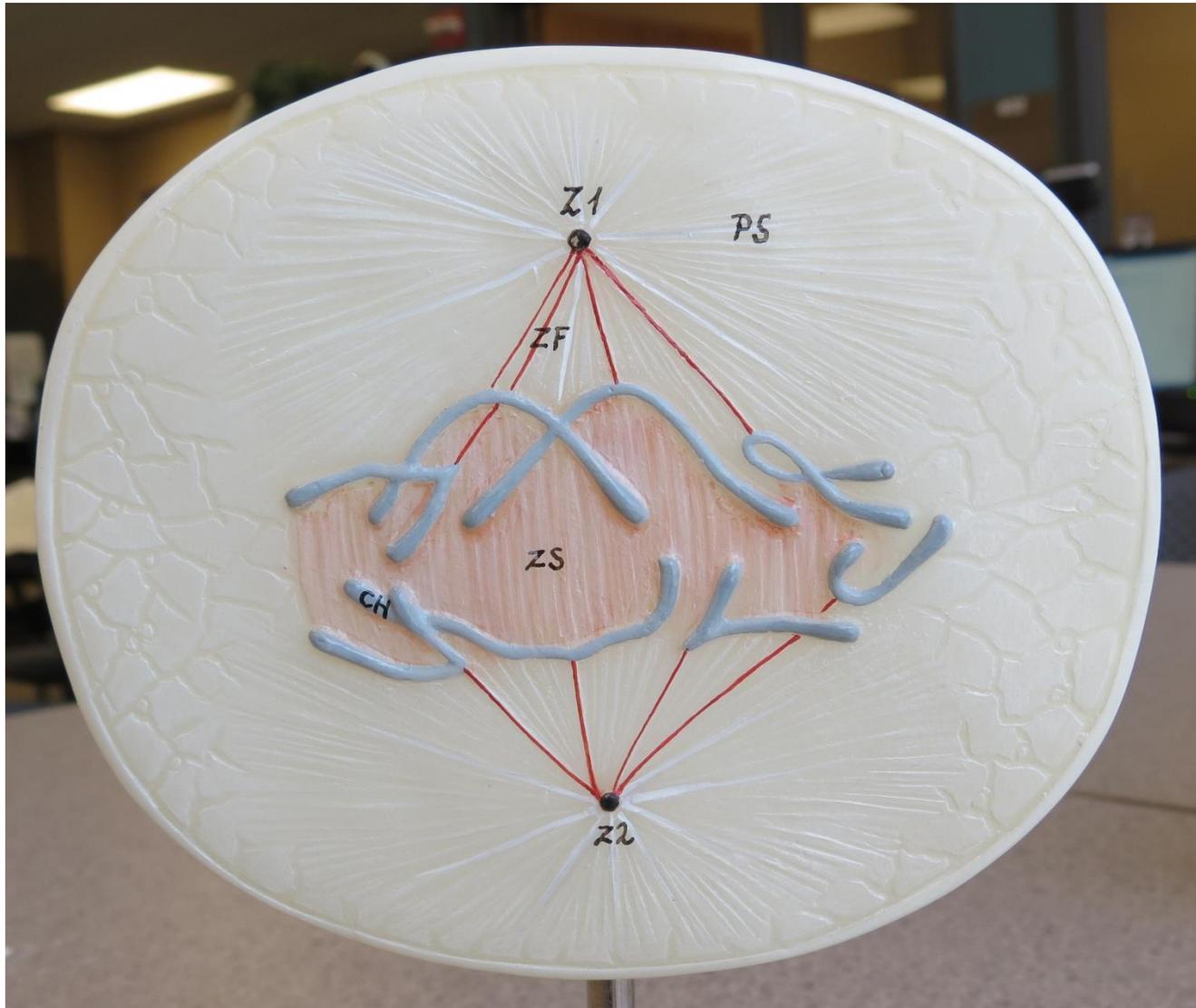
MITOSIS MODEL



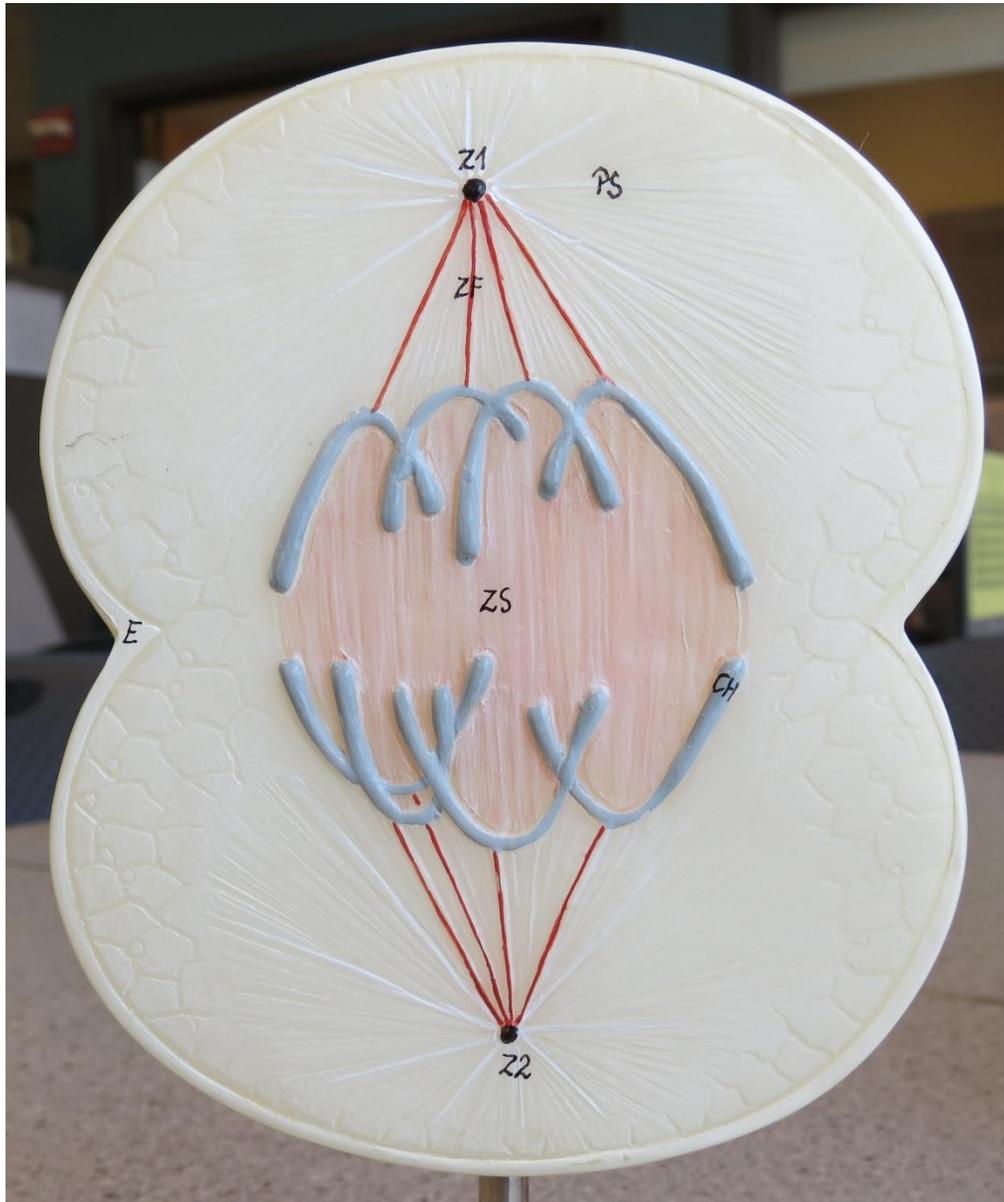
Sister chromatids separate forming daughter chromosomes.

Anaphase

MITOSIS MODEL



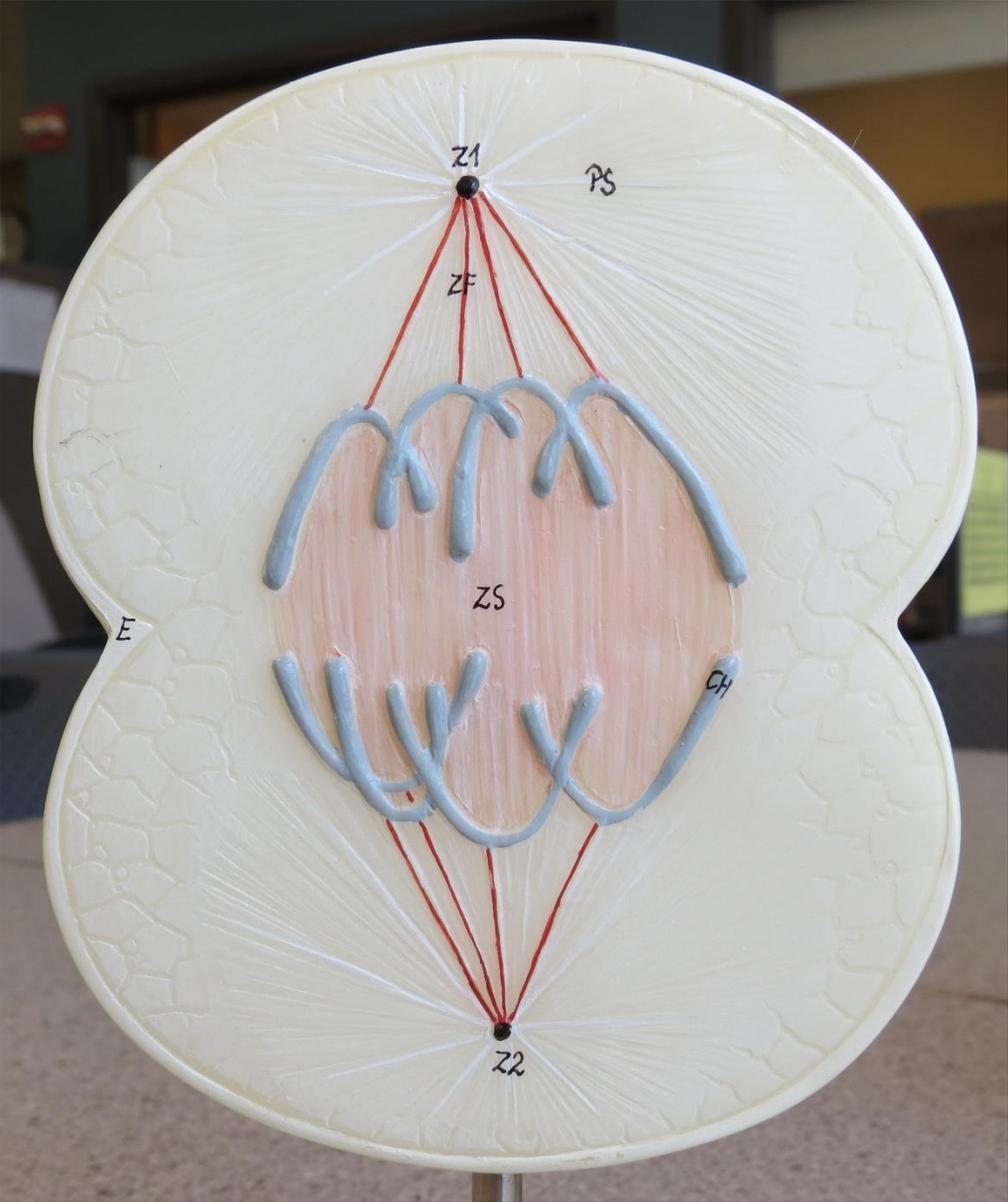
MITOSIS MODEL



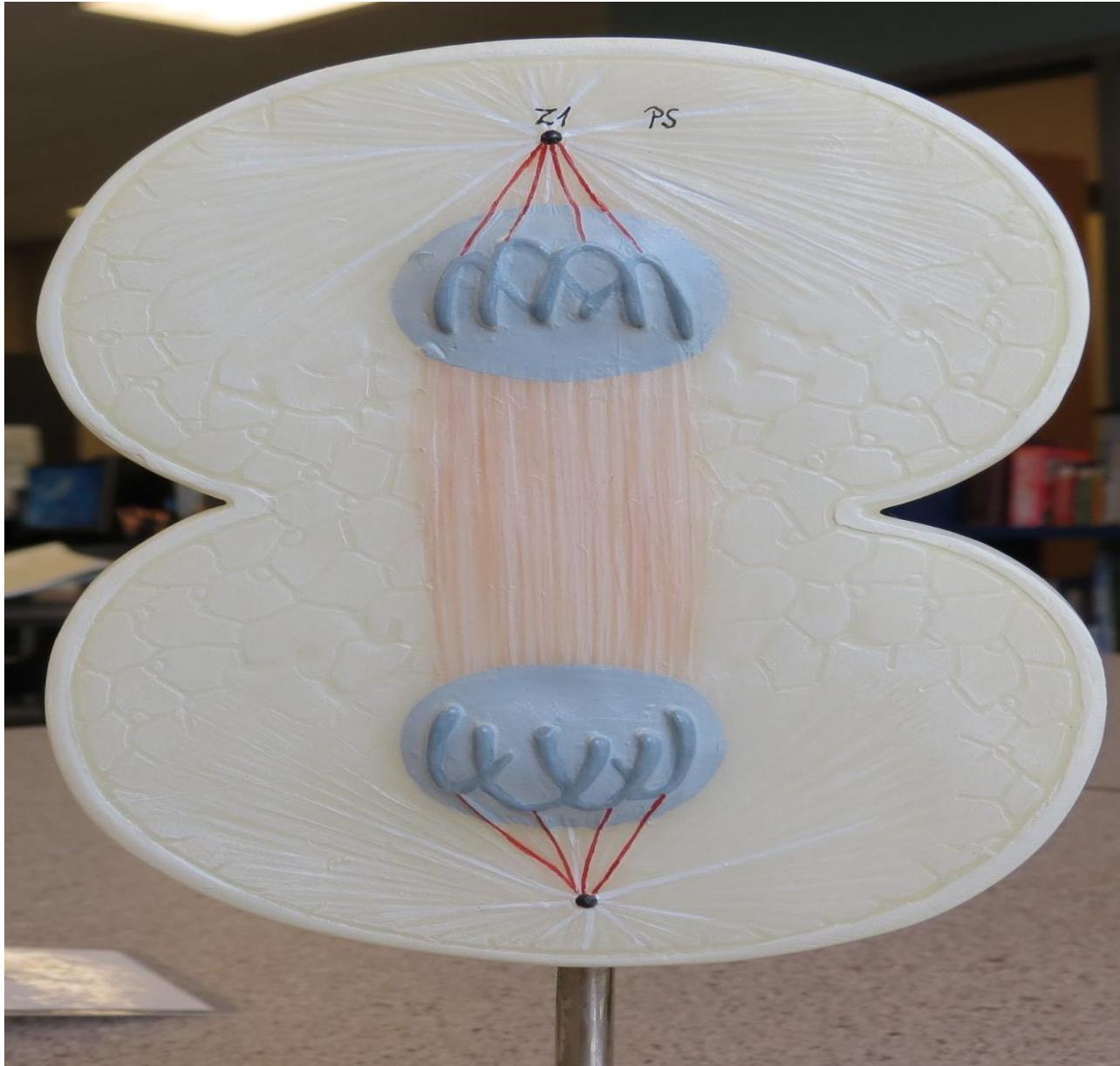
**Daughter
chromosomes become
further separated.**

Late Anaphase

MITOSIS MODEL



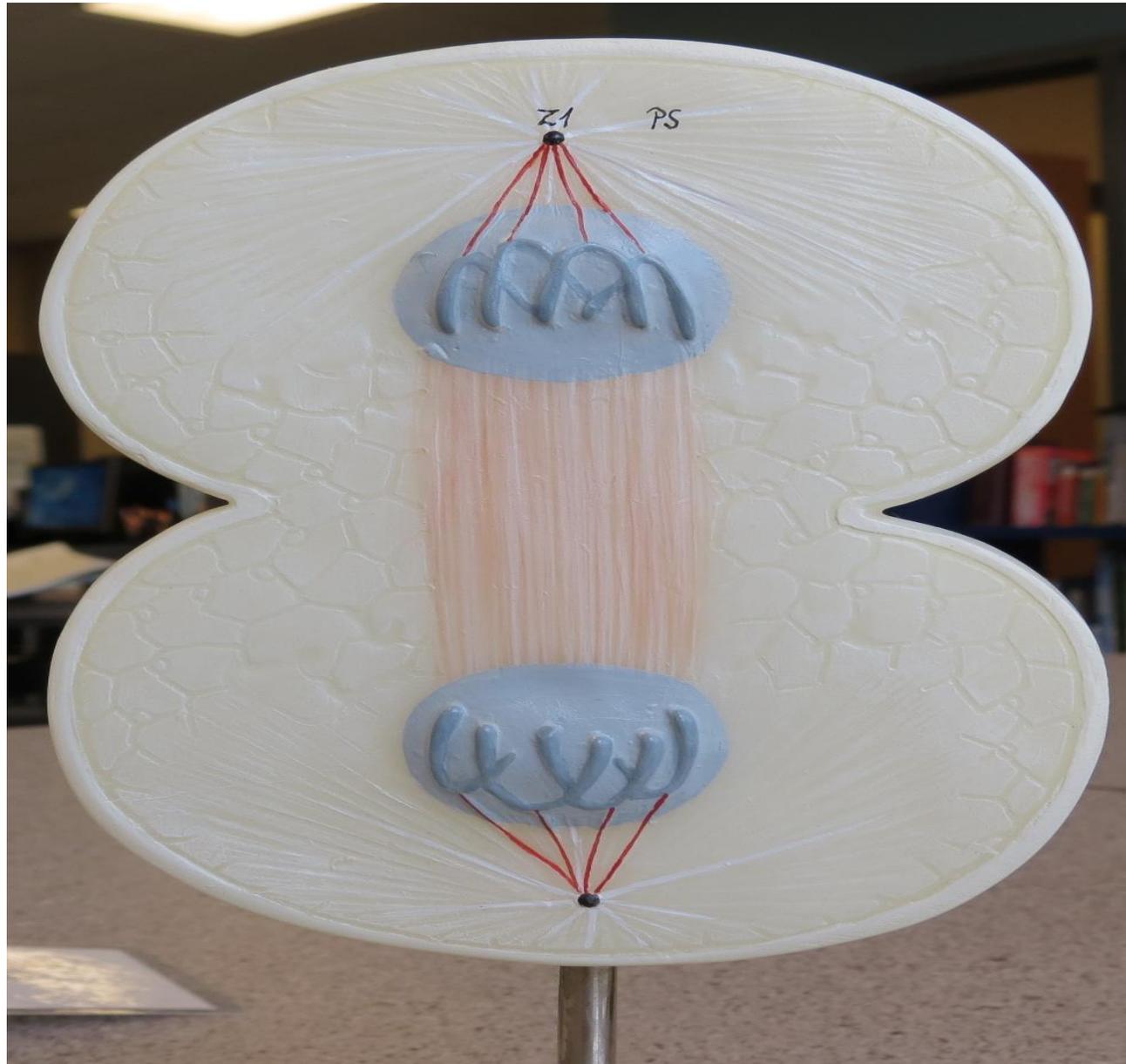
MITOSIS MODEL



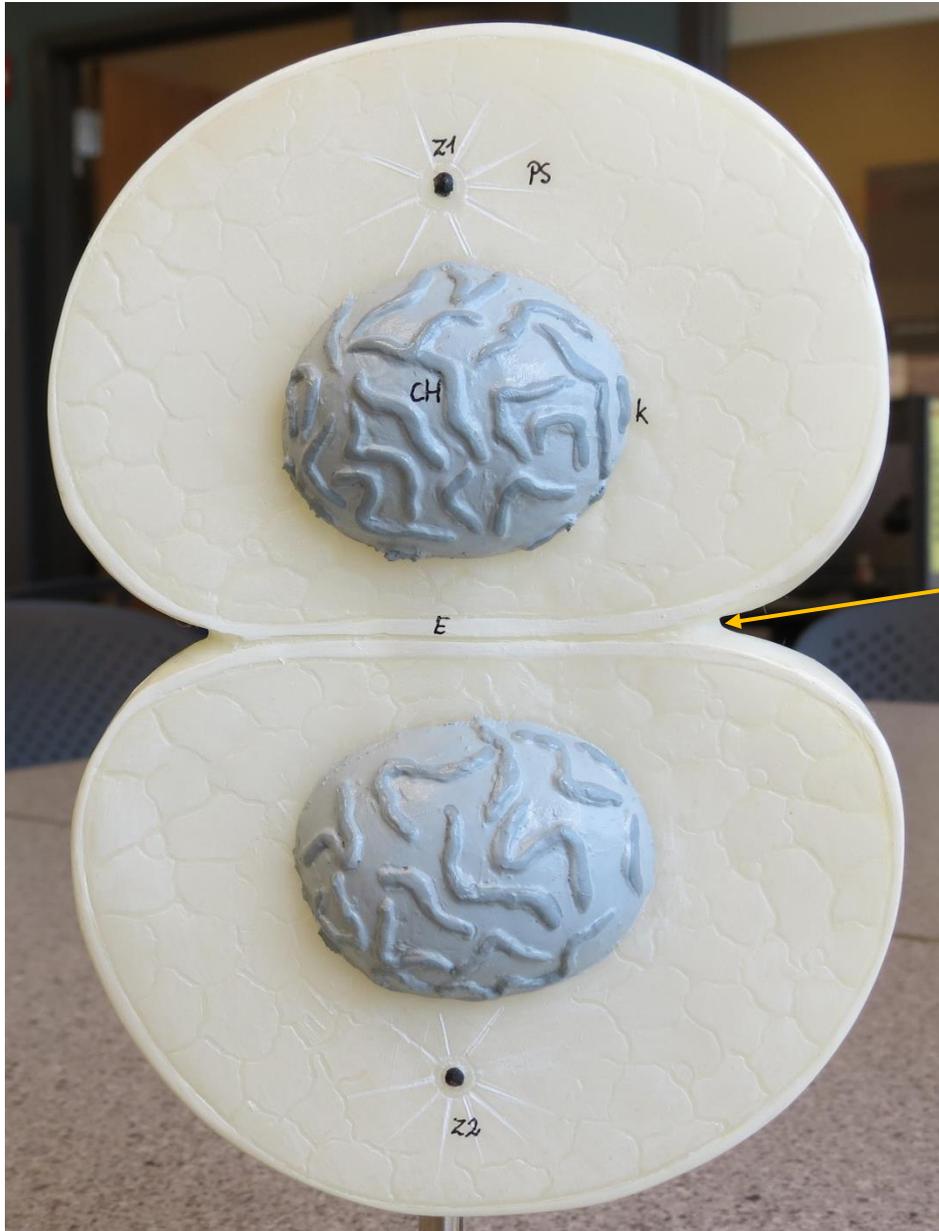
Chromosomes have completed their separation forming new nuclei. Cytokinesis causes cleavage furrow.

Telophase

MITOSIS MODEL



MITOSIS MODEL

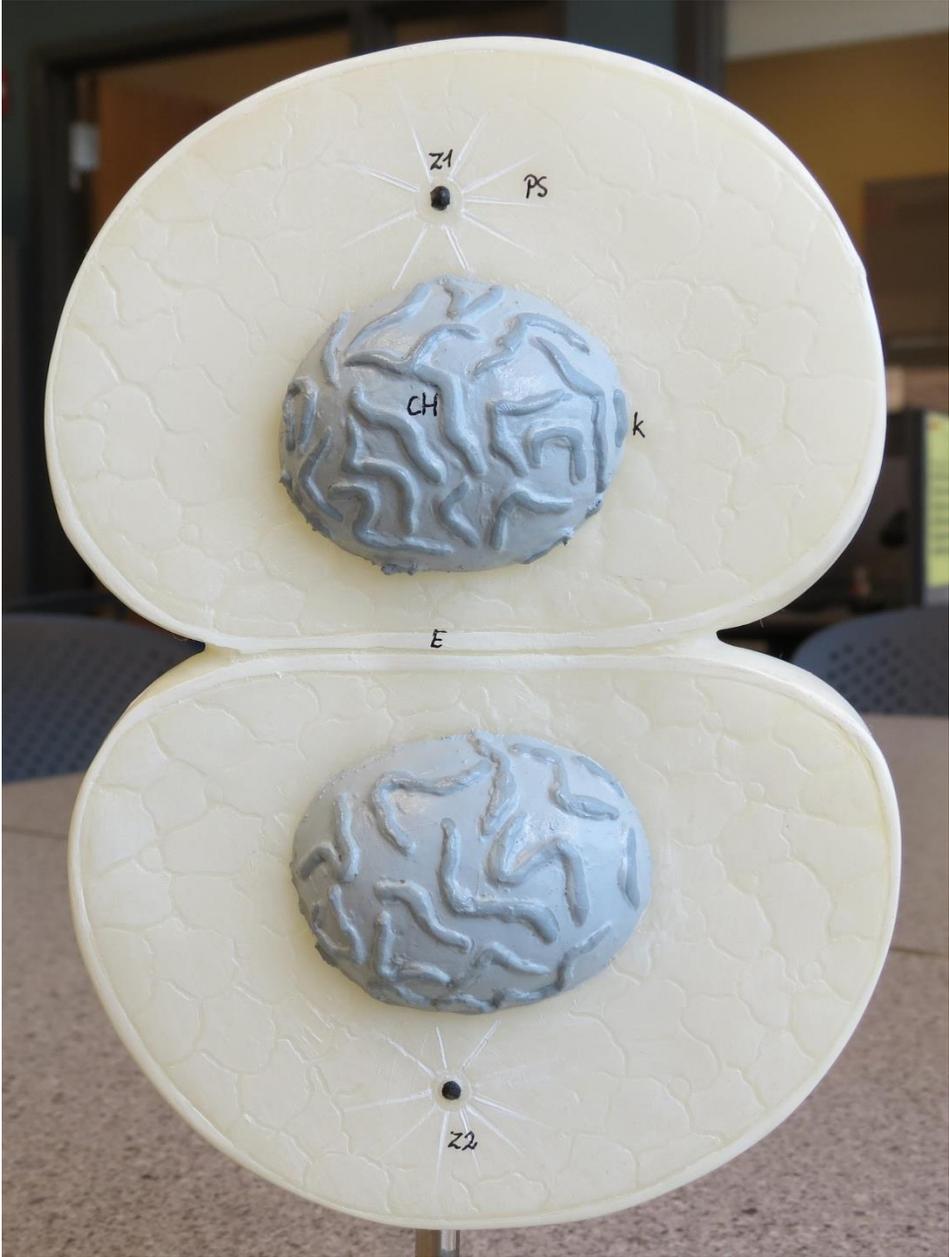


(Note cell boundary between cells.)

Cytokinesis has been completed. We now have 2 individual cells.

Daughter Cells/ Interphase

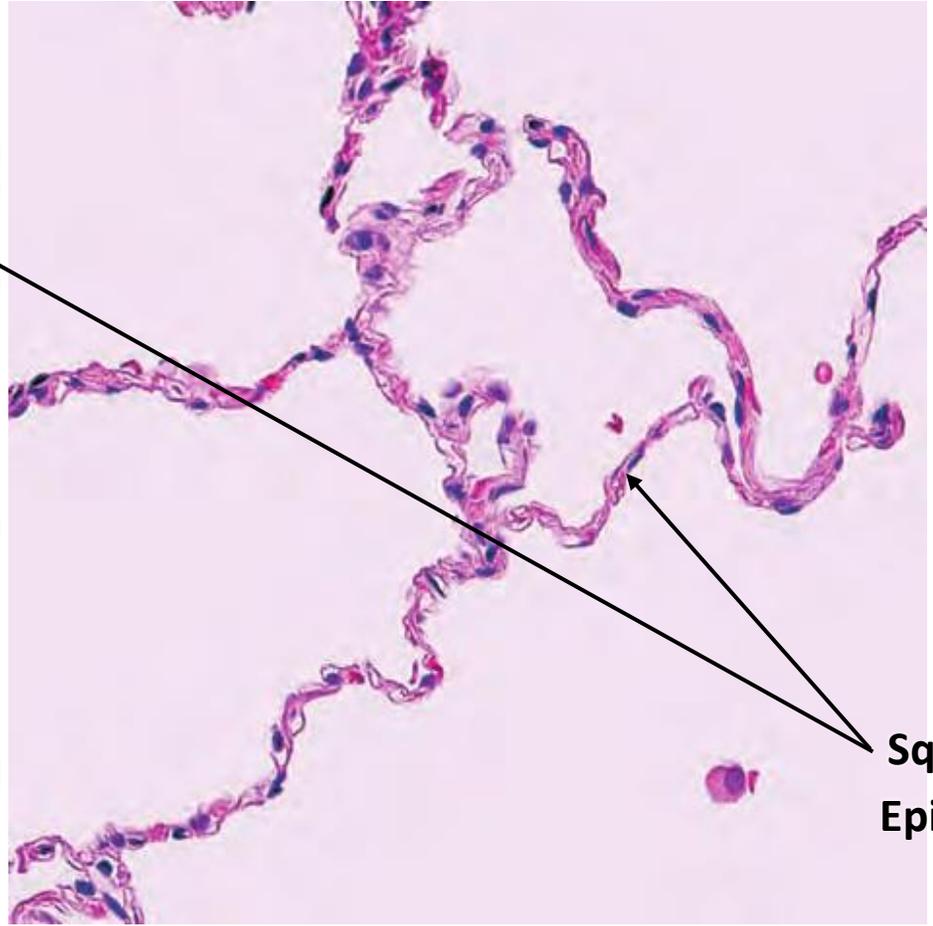
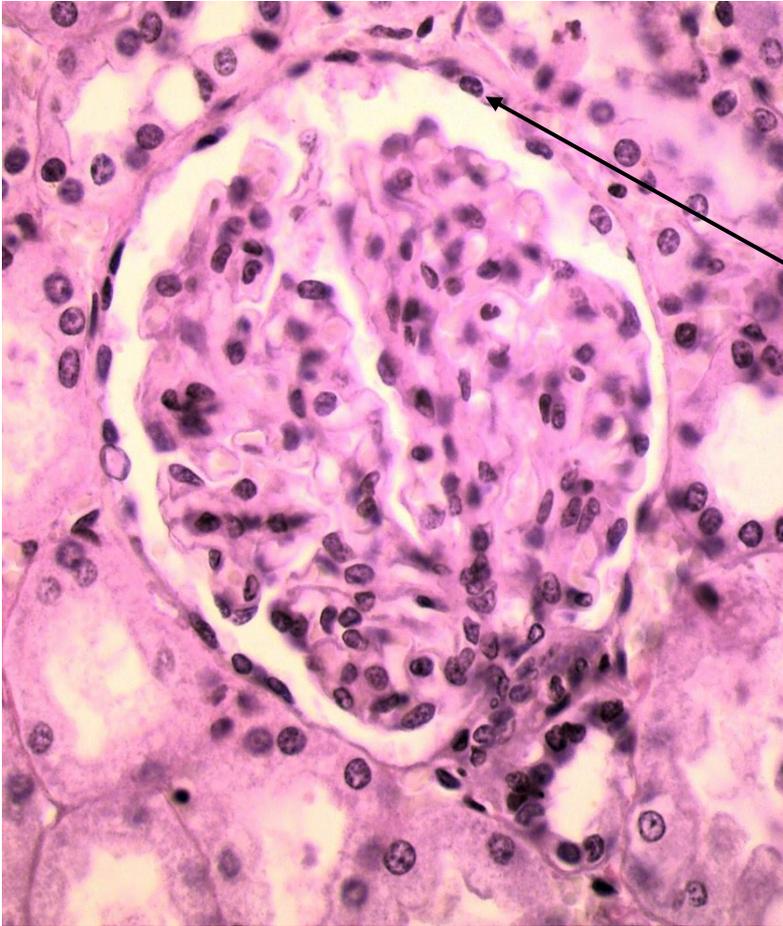
MITOSIS MODEL



SIMPLE SQUAMOUS EPITHELIUM

Function: Diffusion and filtration

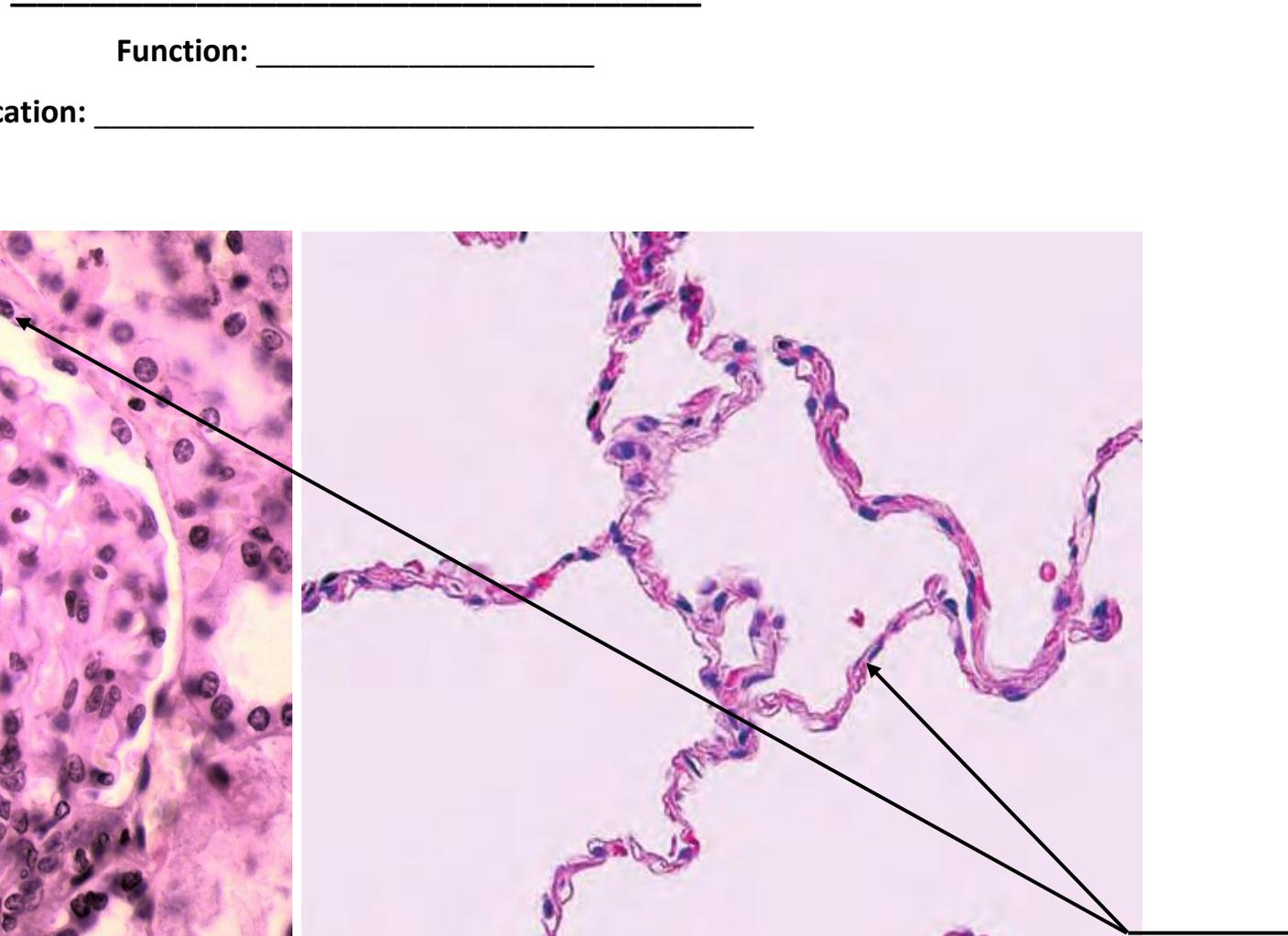
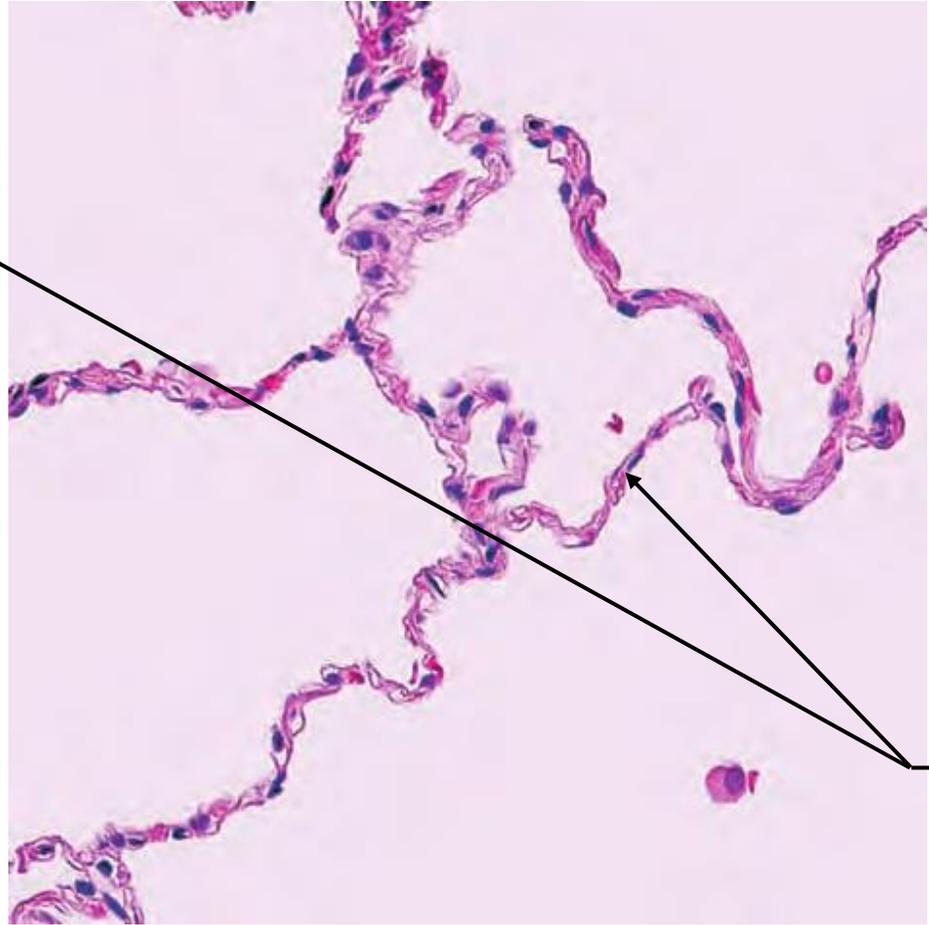
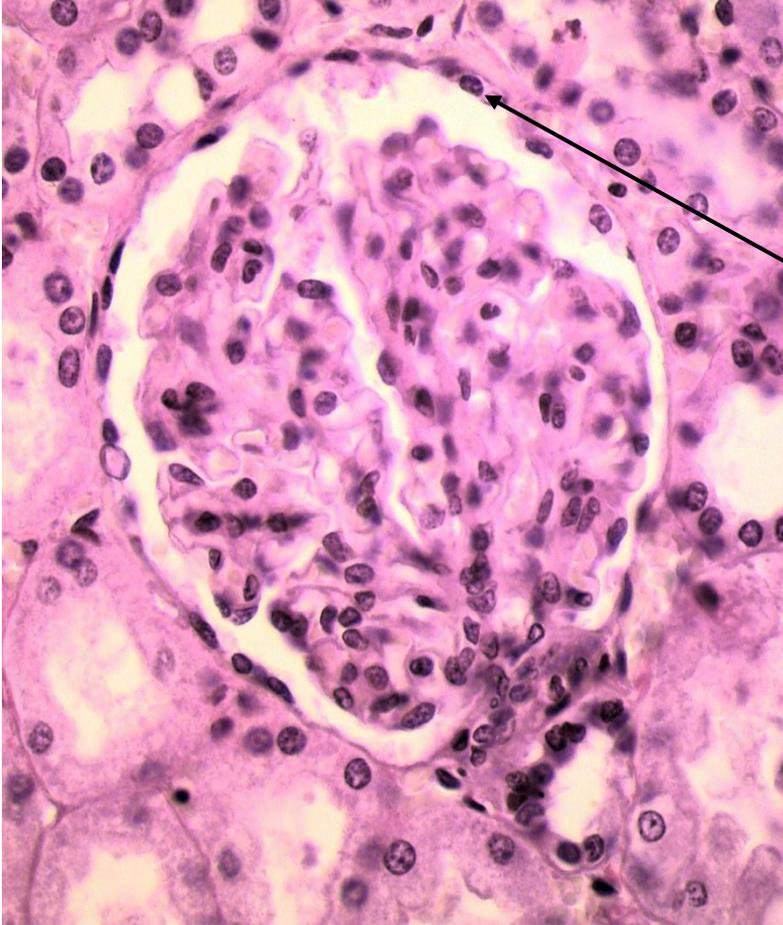
Location: Lung alveoli, kidney glomerulus, capillary walls



**Simple
Squamous
Epithelium**

Function: _____

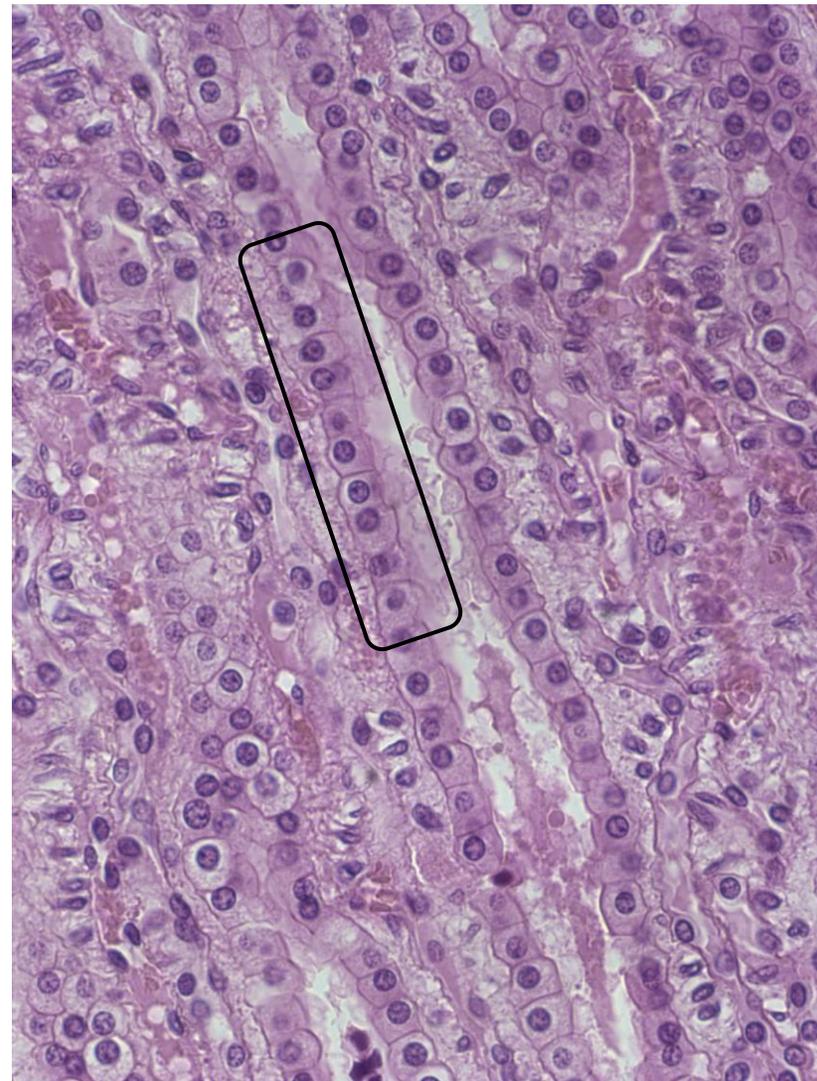
Location: _____



SIMPLE CUBOIDAL EPITHELIUM

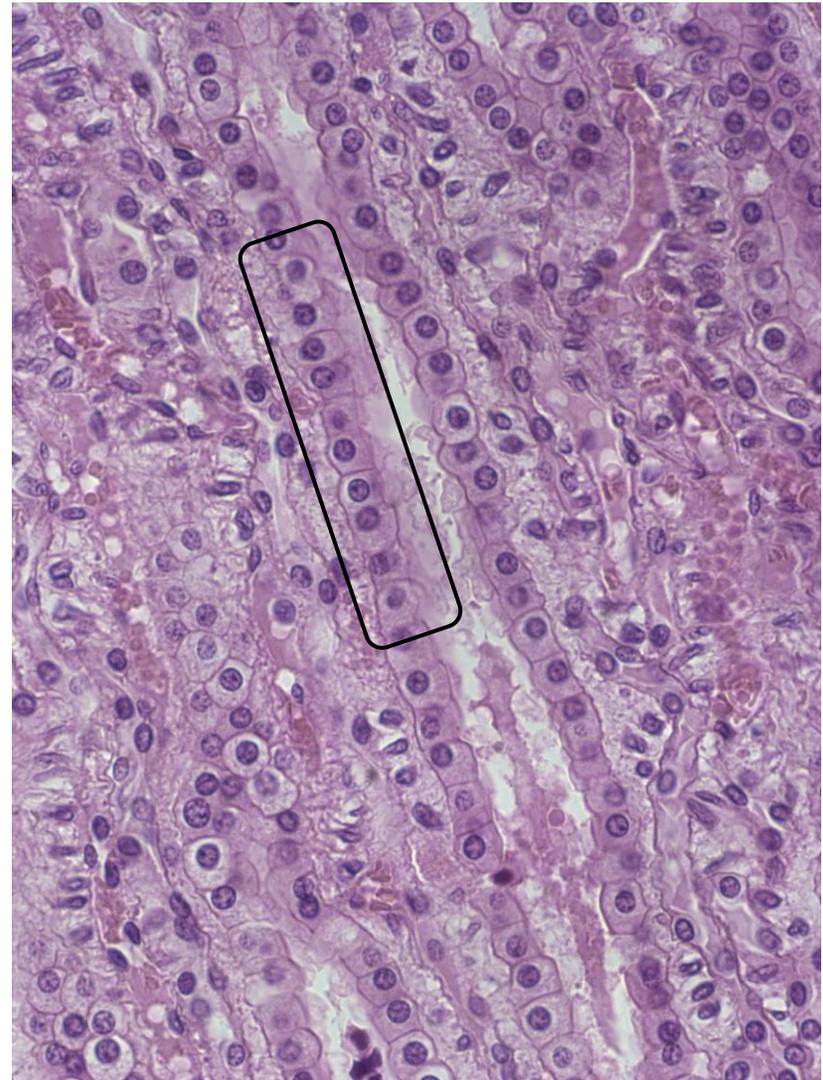
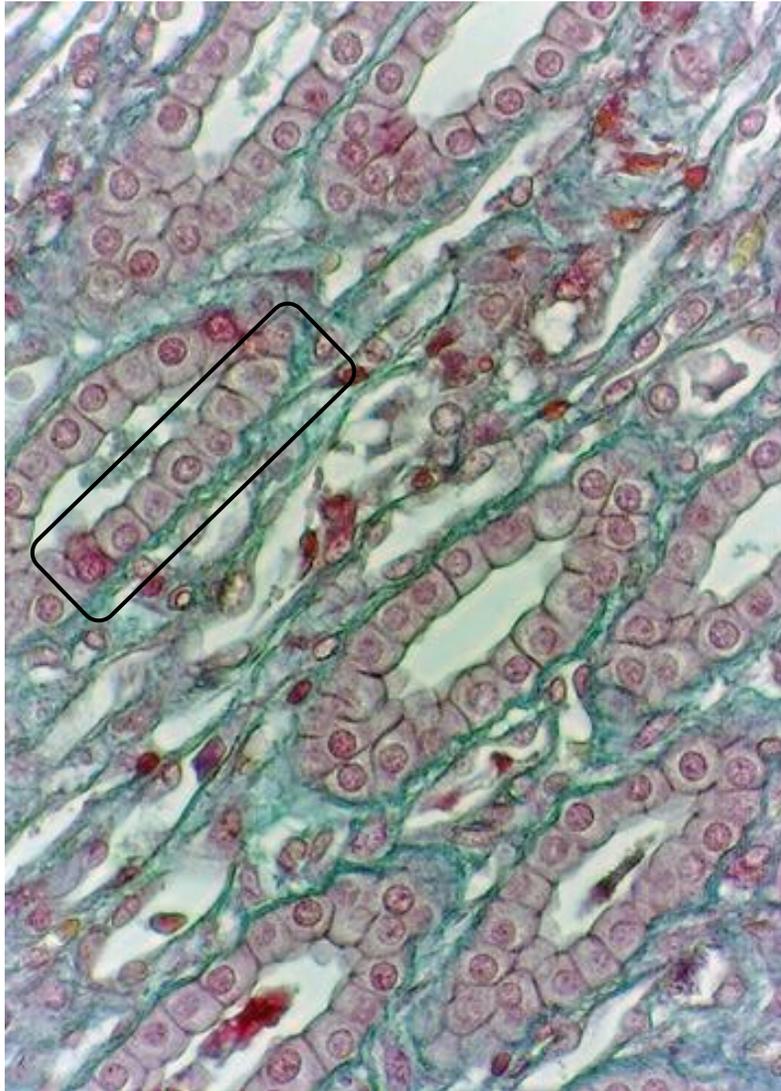
Function: Secretion and some absorption

Location: Any secretory gland, kidney tubules and other ducts



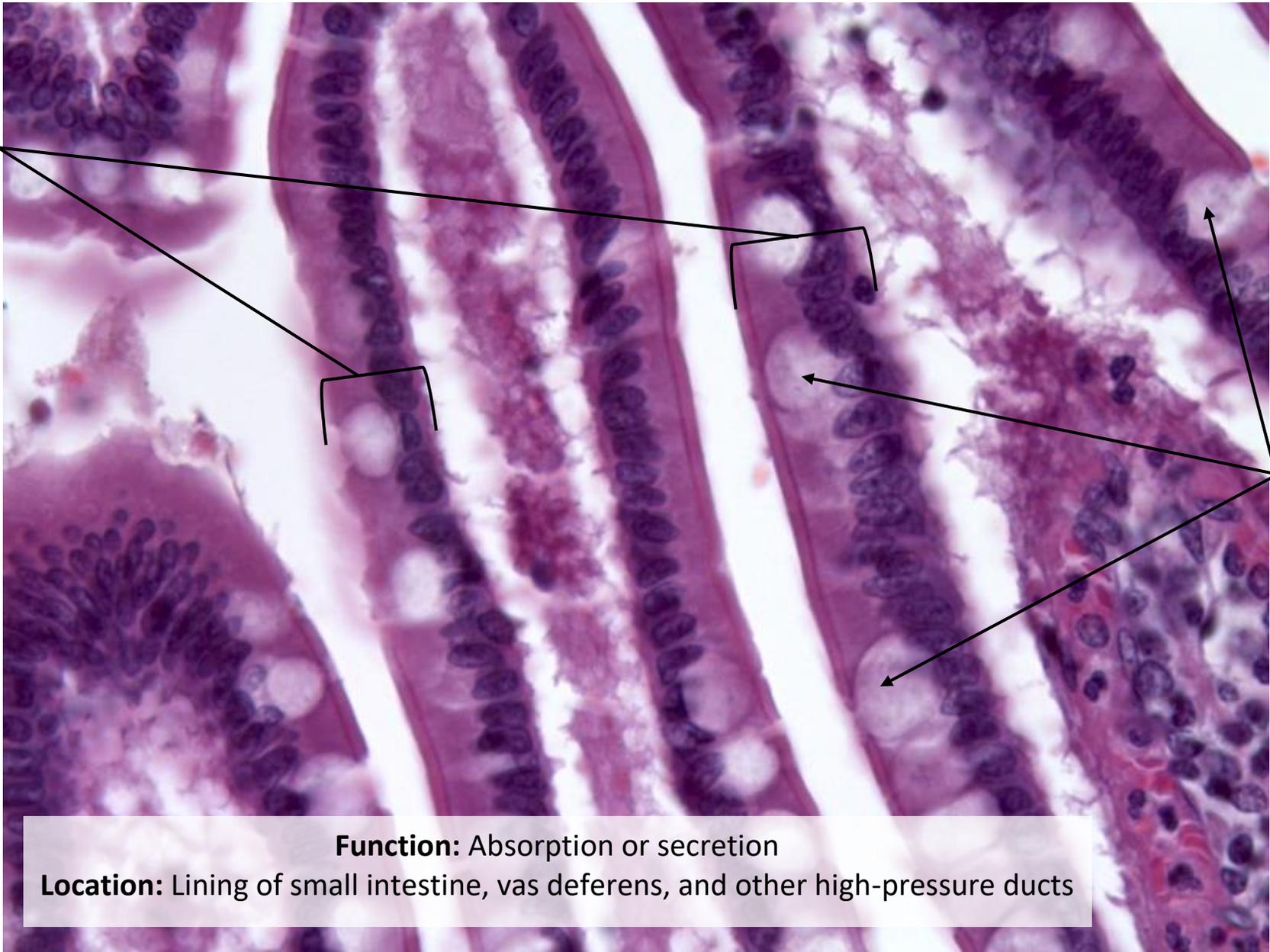
Function: _____

Location: _____



SIMPLE COLUMNAR EPITHELIUM

Simple
Columnar
Epithelium



Goblet
Cells

Function: Absorption or secretion
Location: Lining of small intestine, vas deferens, and other high-pressure ducts

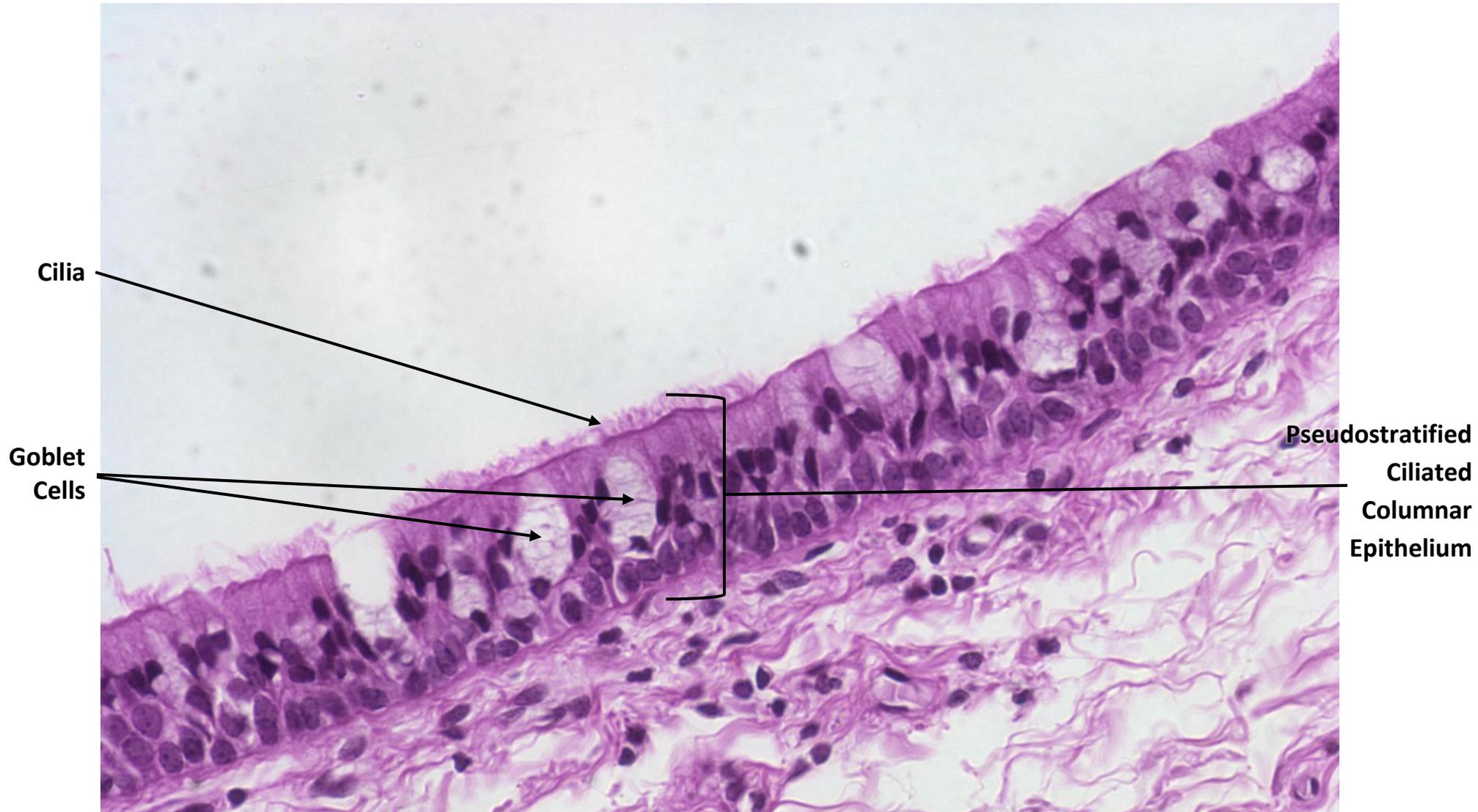


Location: _____
Function: _____

PSEUDOSTRATIFIED CILIATED COLUMNAR EPITHELIUM

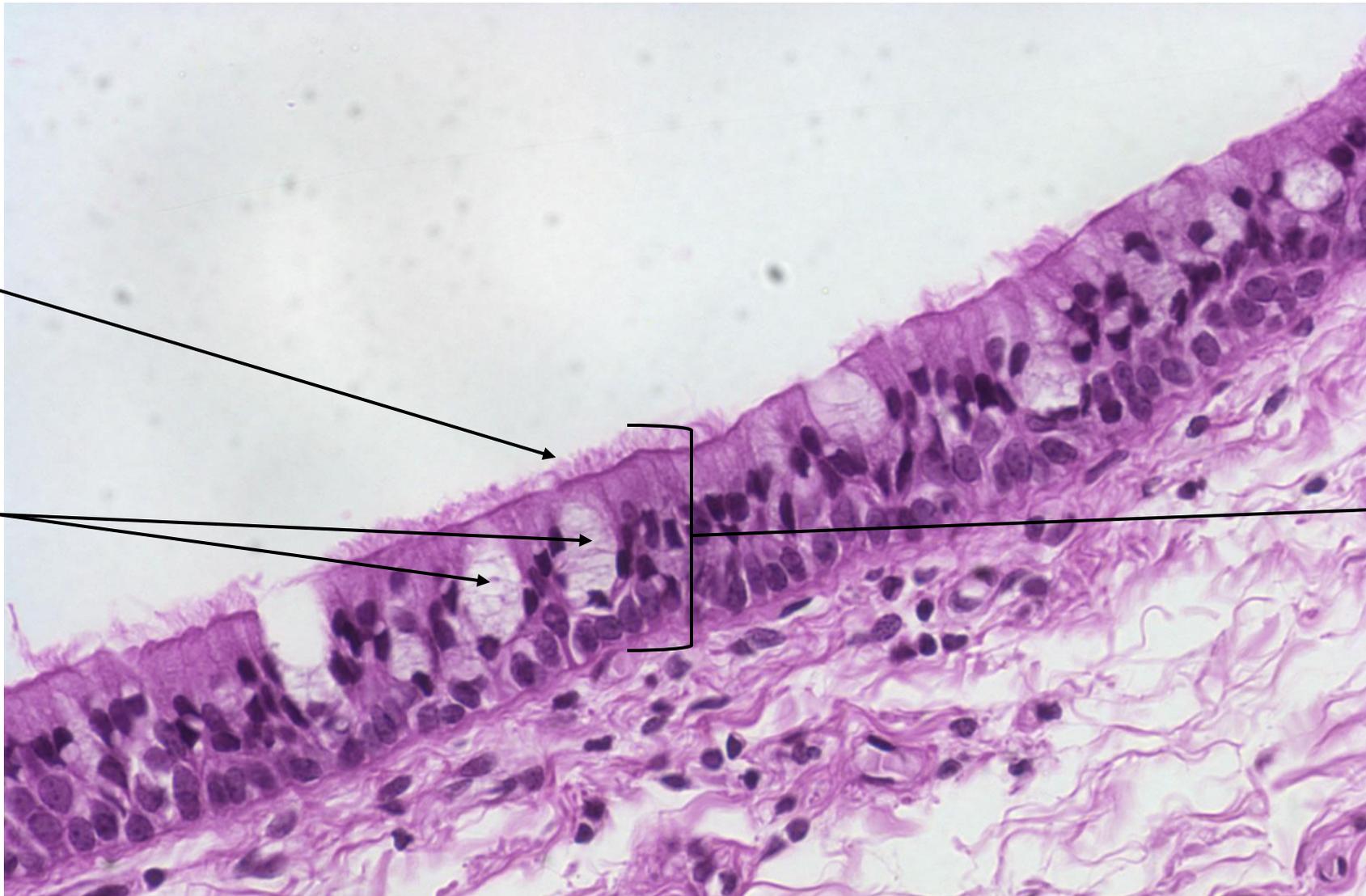
Function: Protection, removal of foreign material

Location: Nasal cavities, sinuses, pharynx, trachea, and bronchi of lungs



Function: _____

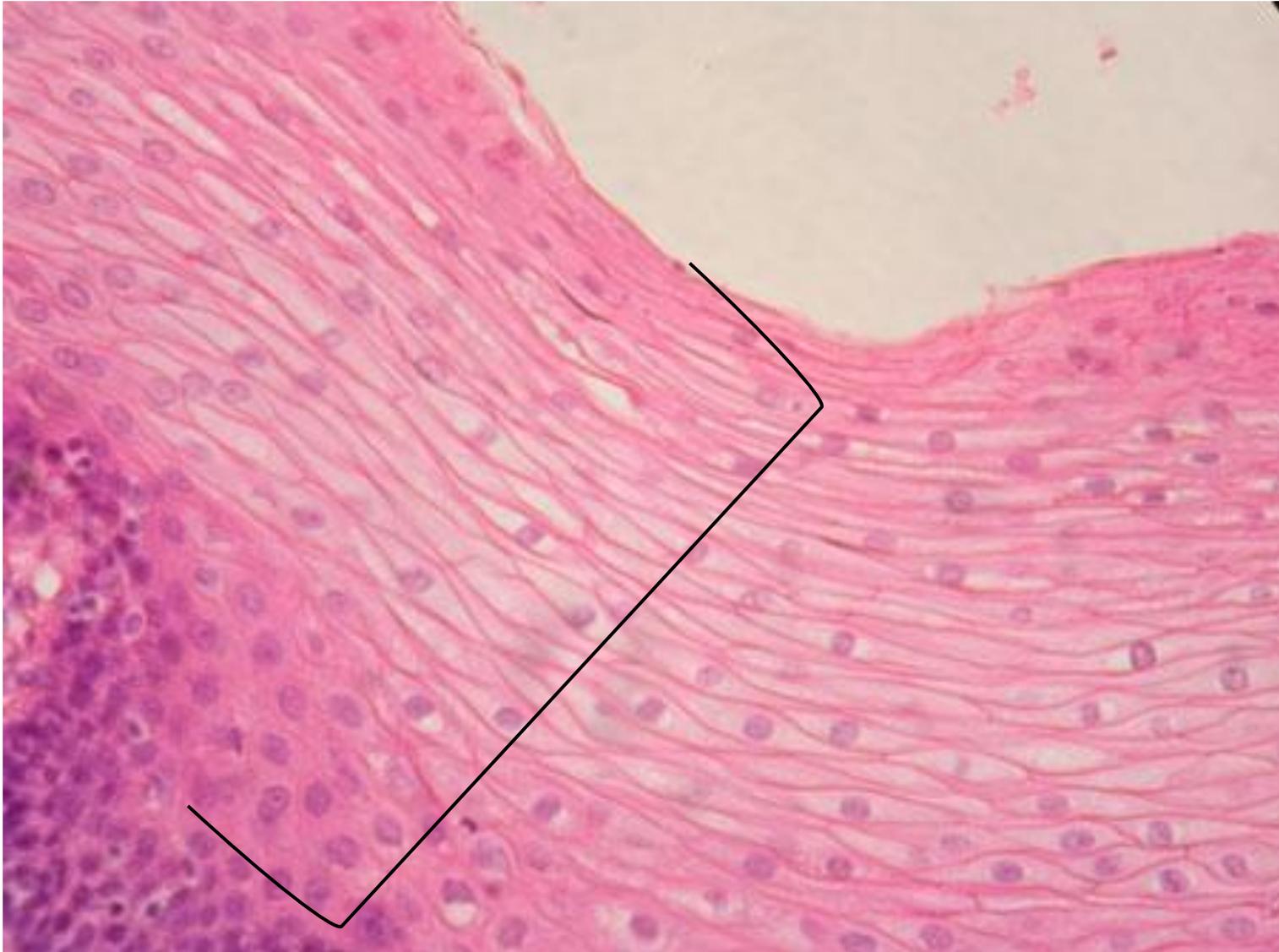
Location: _____



STRATIFIED SQUAMOUS EPITHELIUM

Function: Protection against abrasion

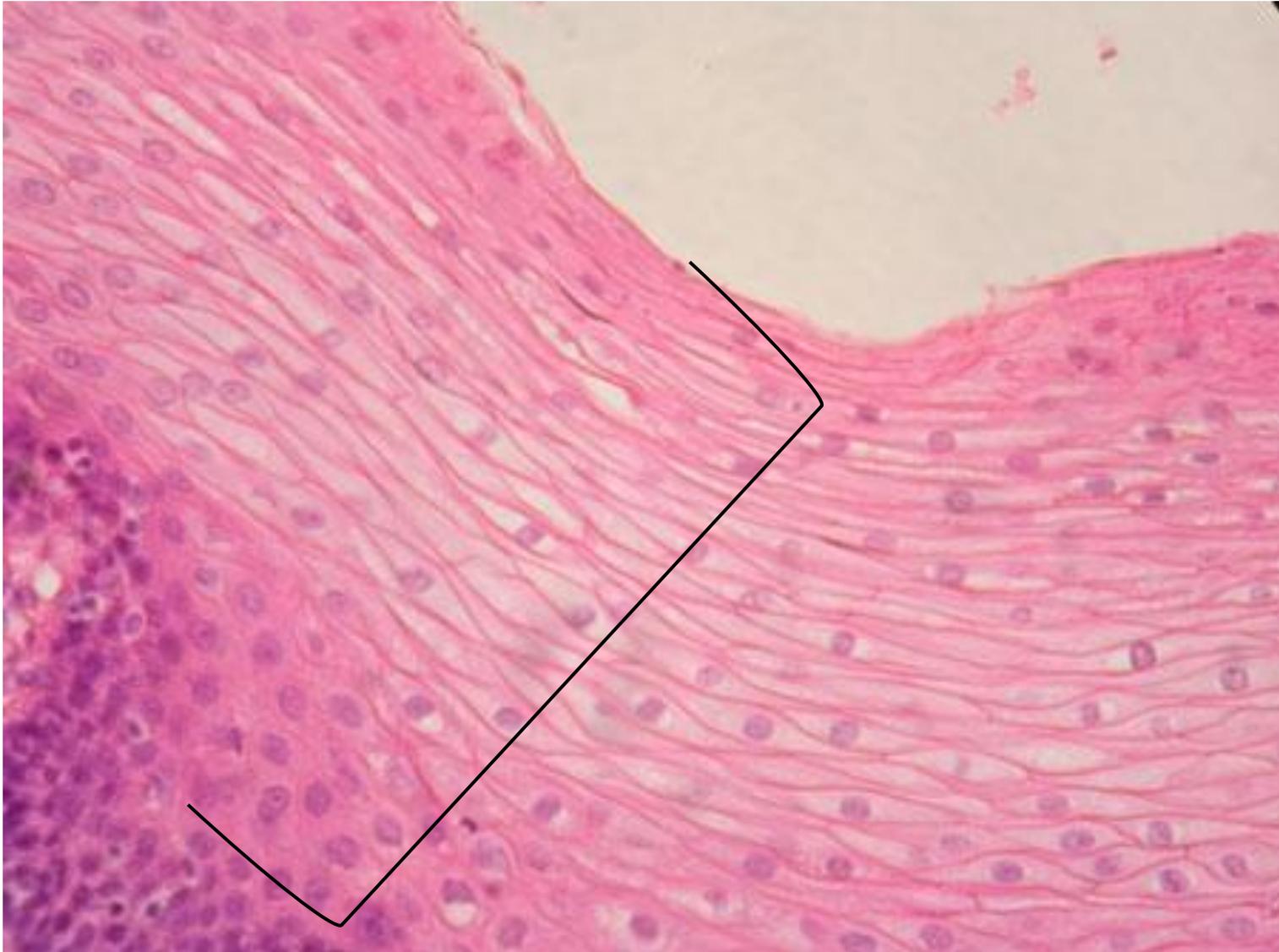
Location: Epidermis, oropharynx, anal canal



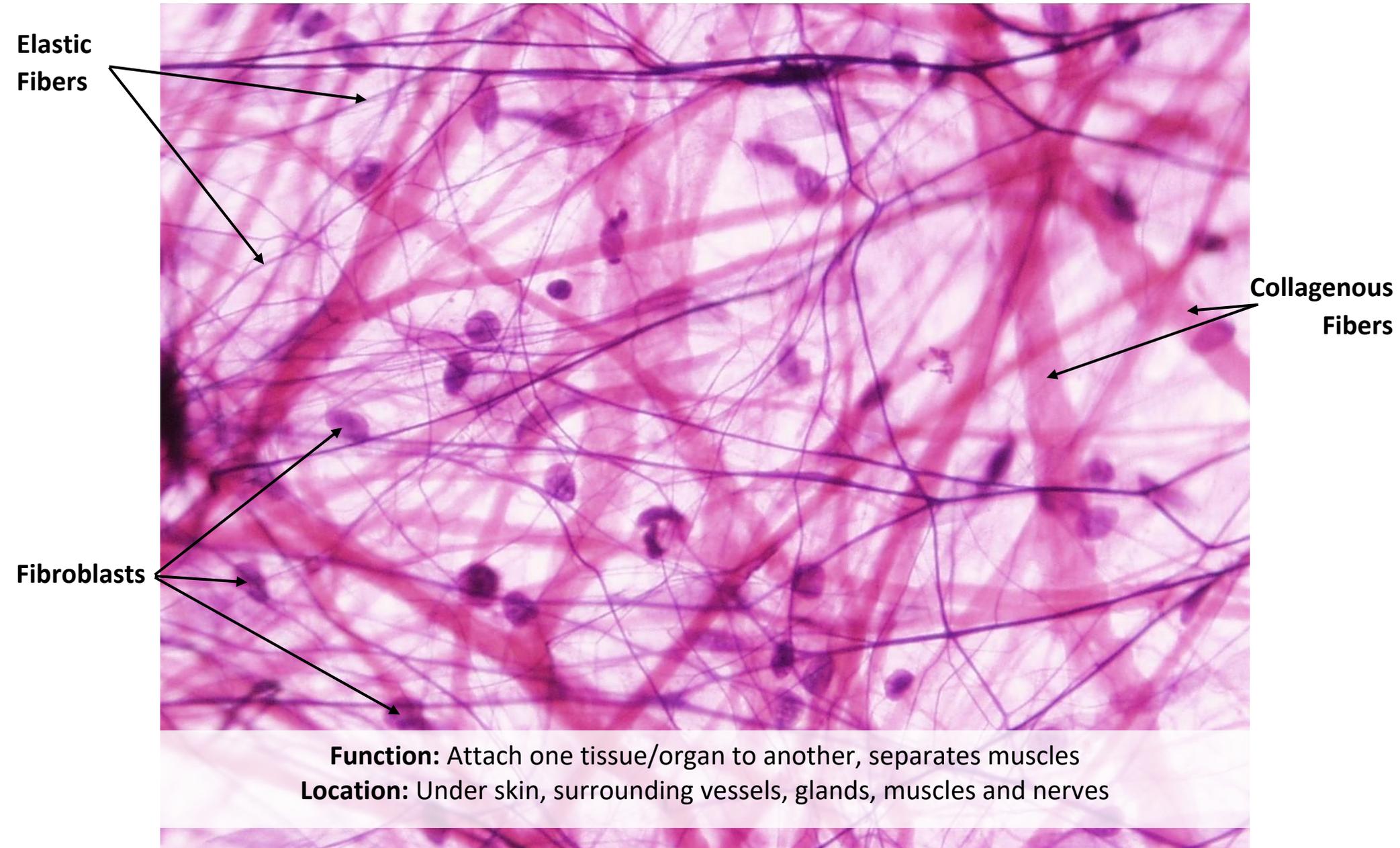
STRATIFIED SQUAMOUS EPITHELIUM

Function: _____

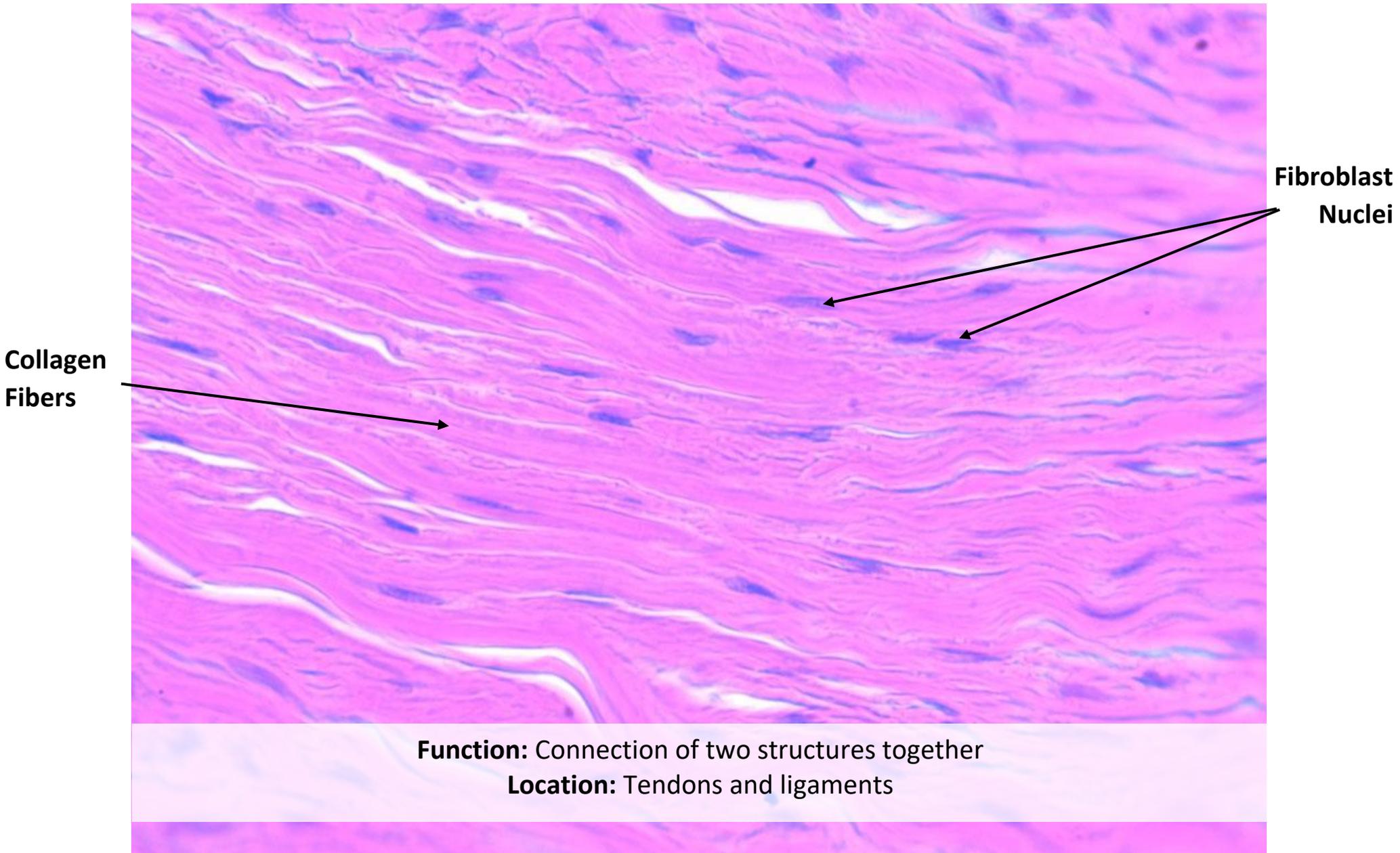
Location: _____



AREOLAR CONNECTIVE TISSUE

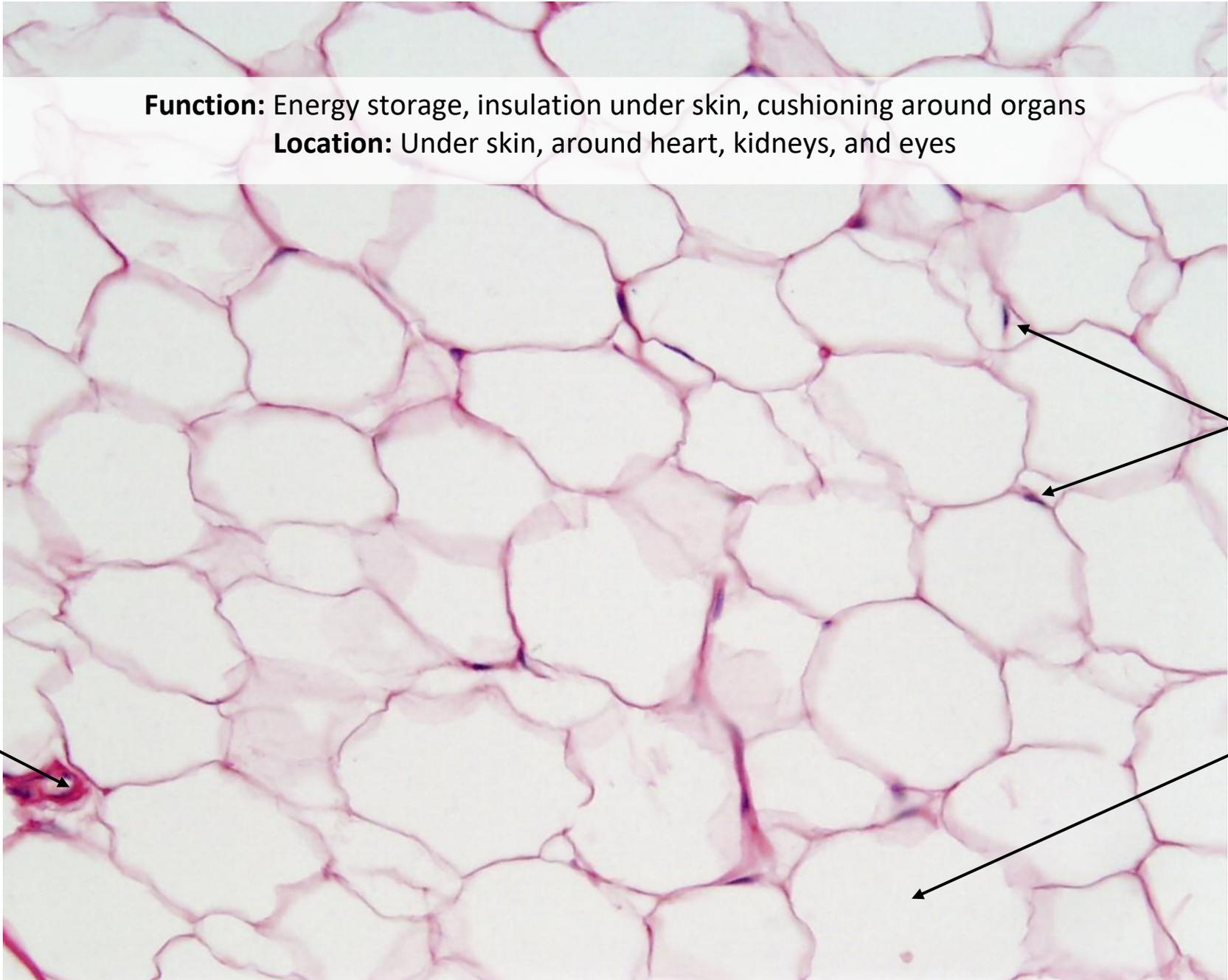


DENSE REGULAR CONNECTIVE TISSUE



ADIPOSE TISSUE

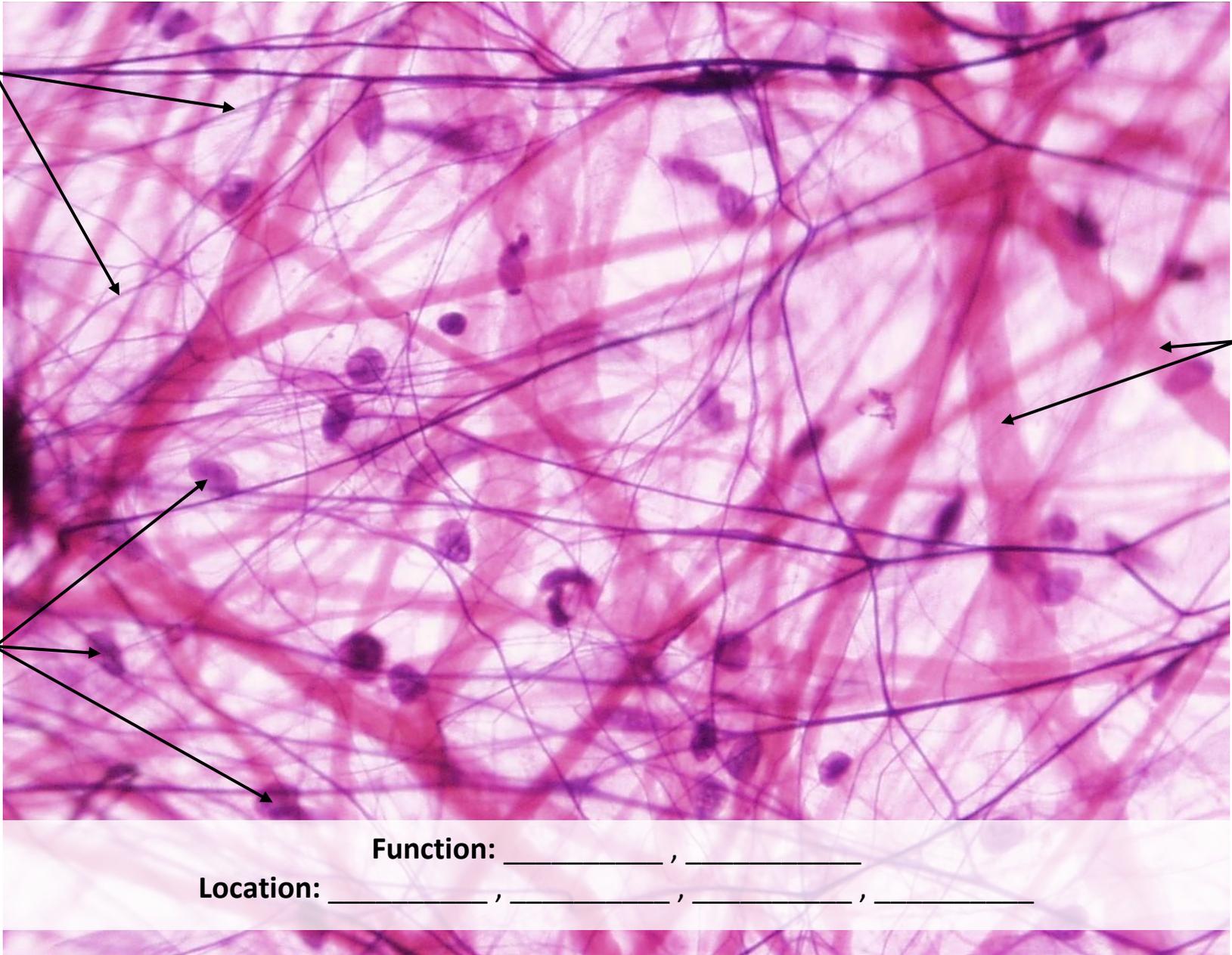
Function: Energy storage, insulation under skin, cushioning around organs
Location: Under skin, around heart, kidneys, and eyes



**Adipocyte
Nucleus**

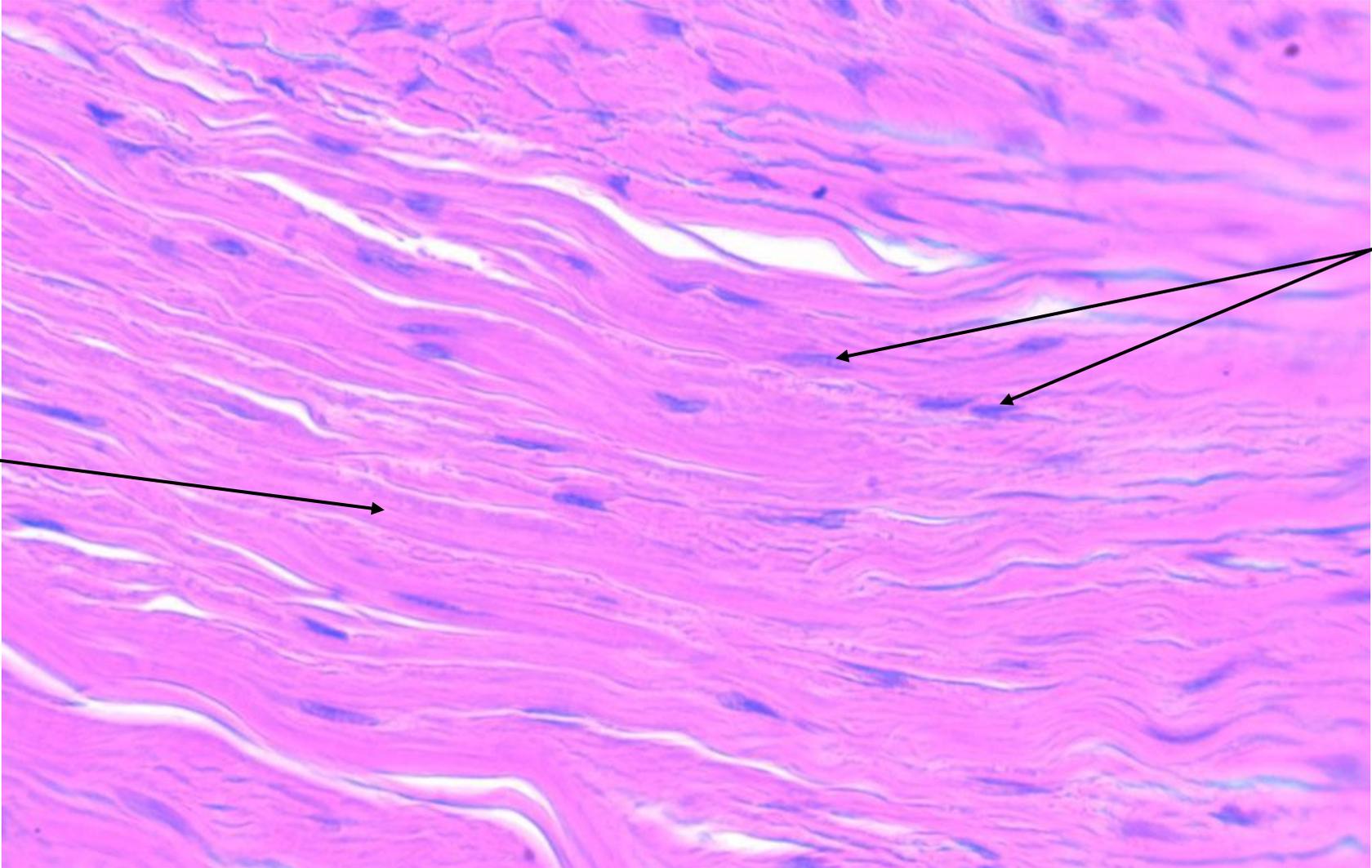
**Lipid
within
Adipocyte**

**Blood
Vessel**

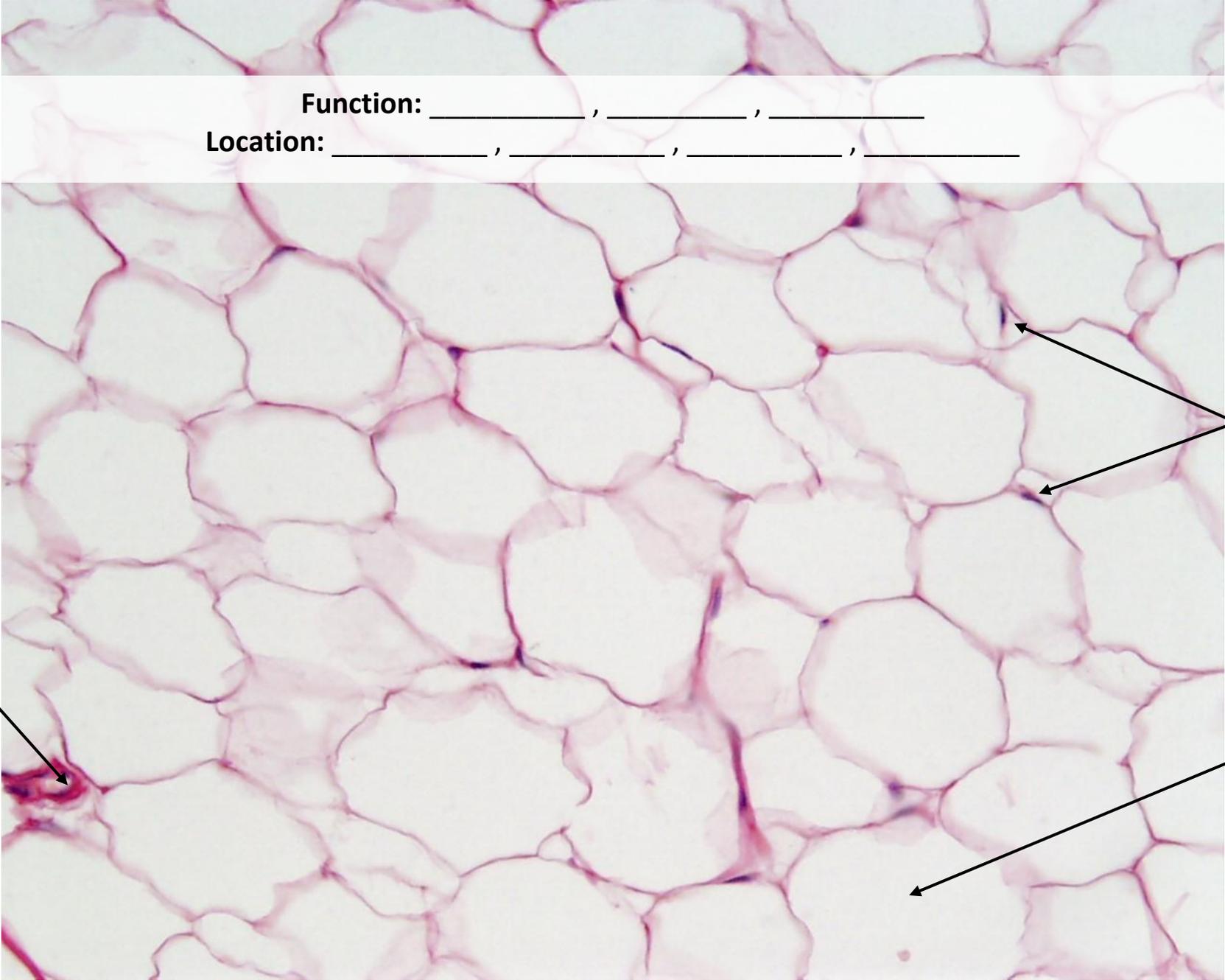


Function: _____ , _____

Location: _____ , _____ , _____ , _____



Function: _____
Location: _____ , _____



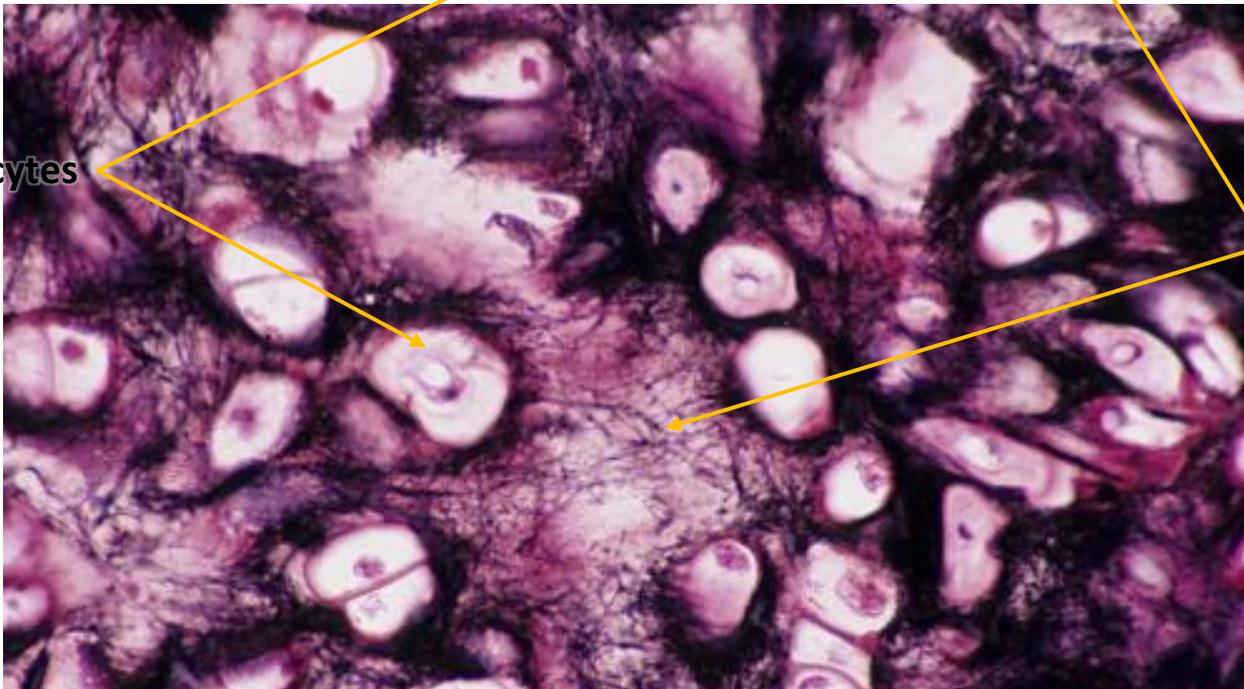
Function: _____ , _____ , _____

Location: _____ , _____ , _____ , _____

ELASTIC CARTILAGE



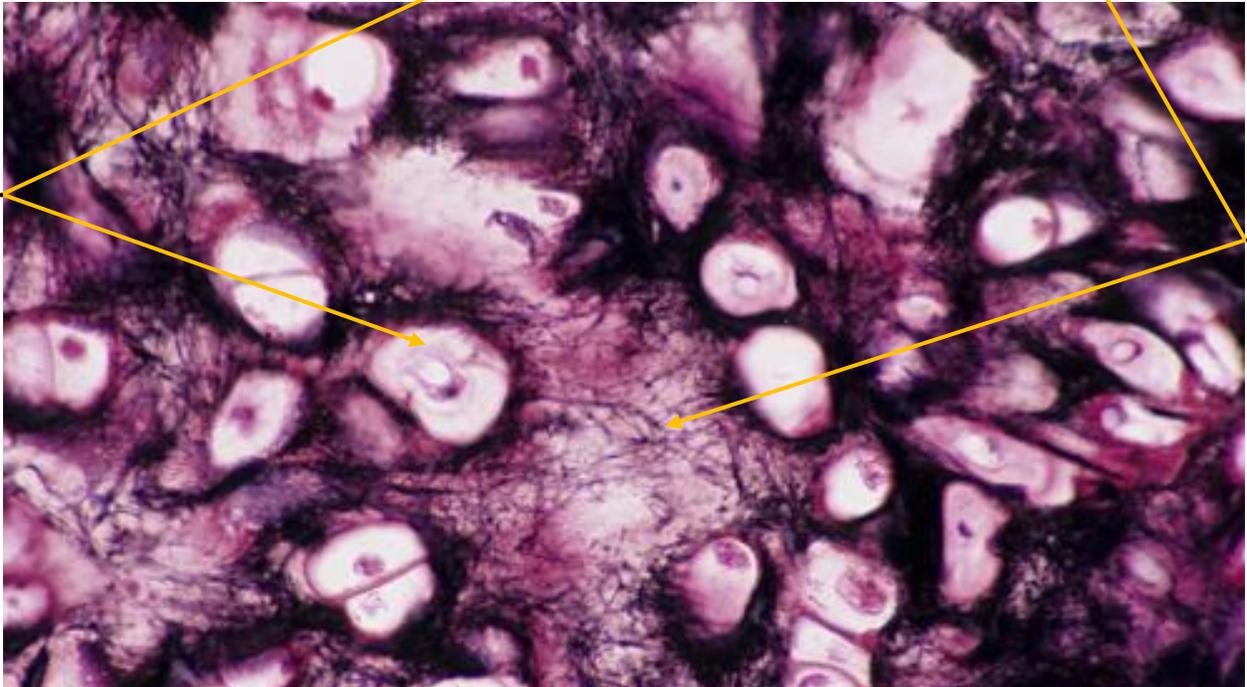
Perichondrium



Lacunae
With
Chondrocytes

Elastic
Fibers

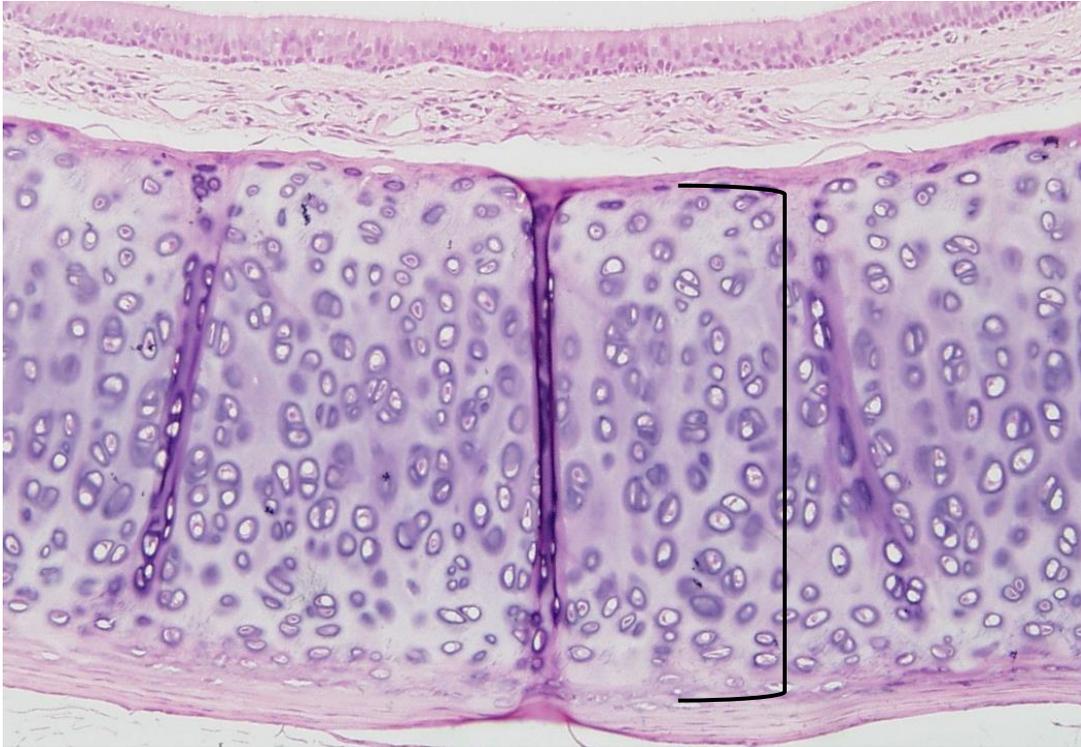
Function: Provide flexible support
Location: Outer ear, epiglottis, larynx



Function: _____

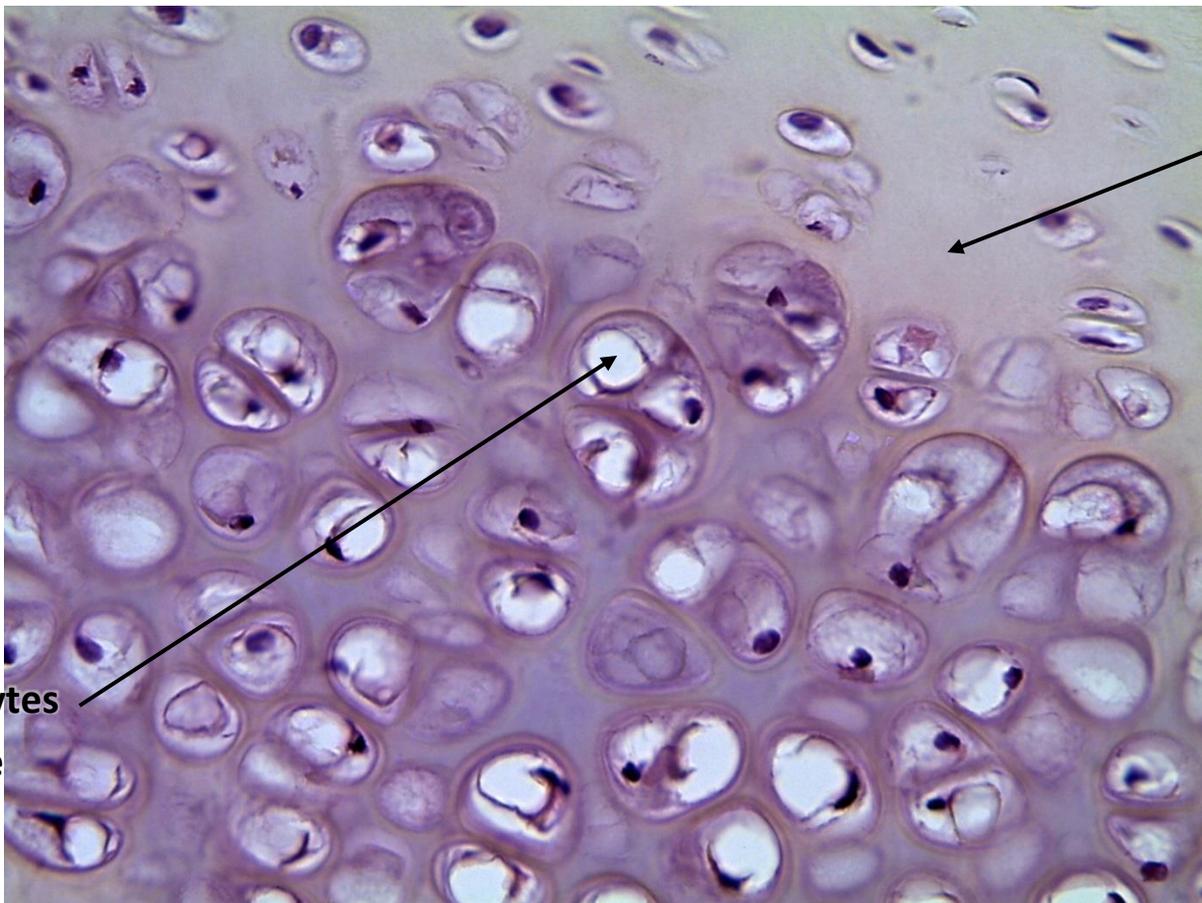
Location: _____ , _____ , _____

HYALINE CARTILAGE



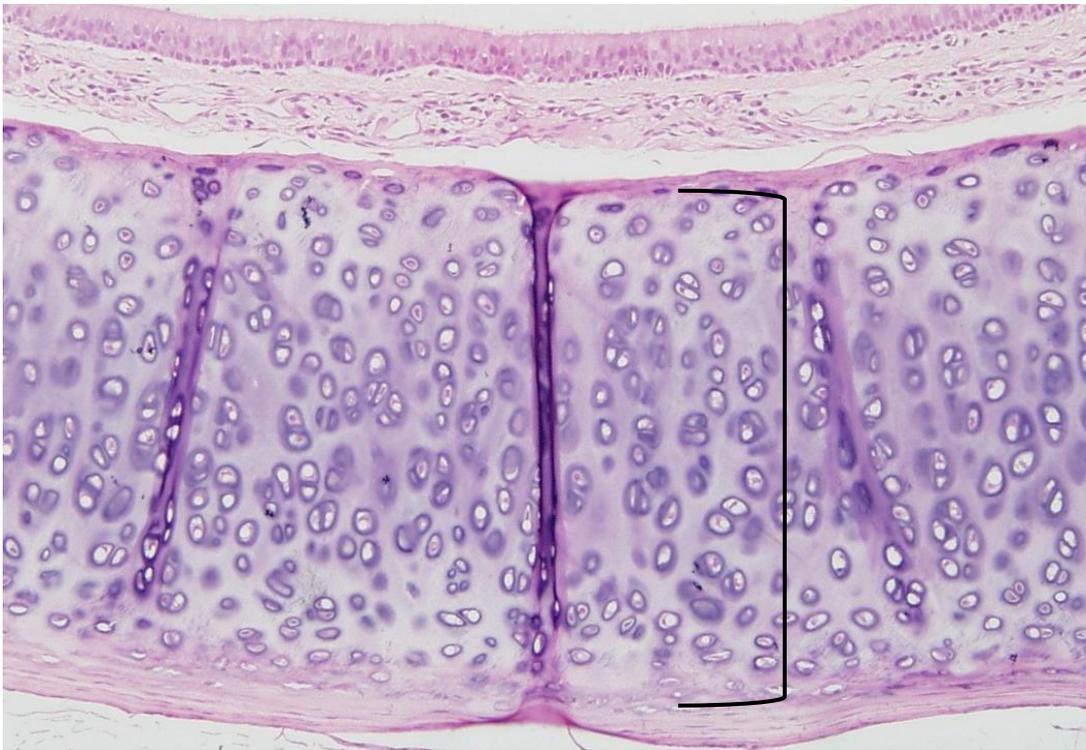
Function: Support

Location: Costal cartilage, end of nose



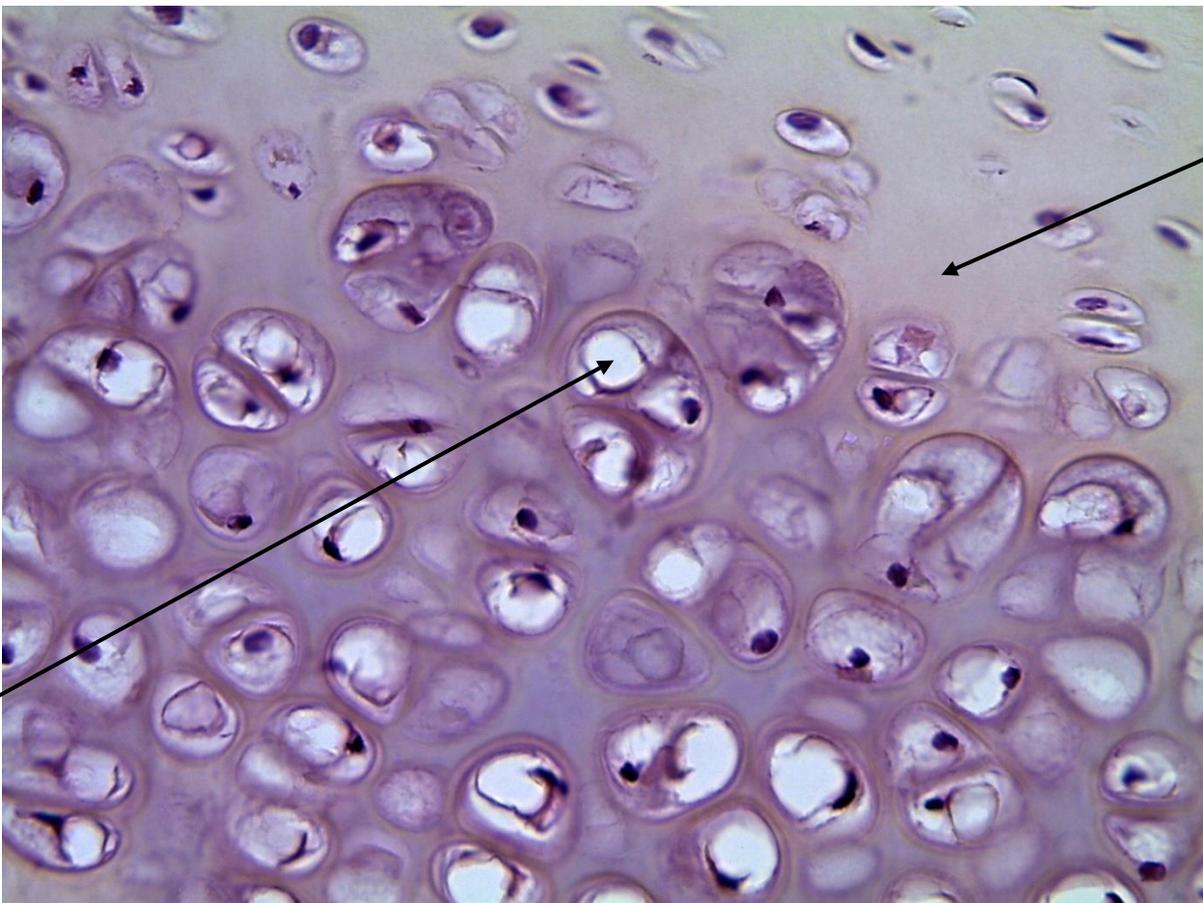
Matrix

**Chondrocytes
in Lacunae**



Function: _____

Location: _____



SKIN MODEL

Sebaceous Gland

Arrector Pili Muscle

Hypodermis (Subcutaneous) Layer



Epidermal Layer

Meissner's Corpuscles

Dermis Layer

Sweat Gland

Adipose Tissue

Pacinian Corpuscle

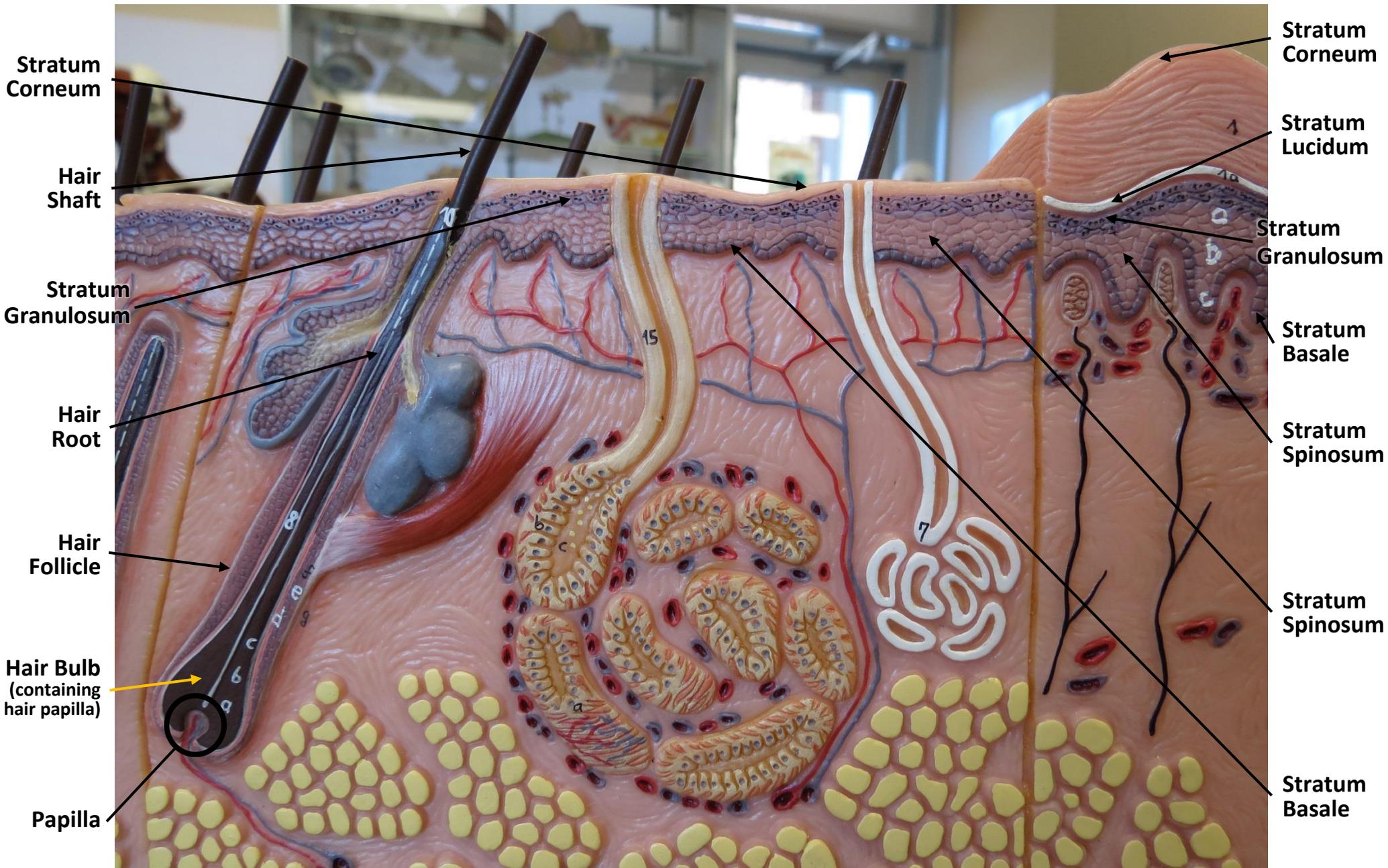
A. Die dicke Haut des Kopfes
The back of the scalp
Pau cheveux du crâne
La cuero cabelludo

B. Die Haut der Achselhöhle
The skin of the armpit
Peau de l'aisselle
La piel de la cavidad axilar

C. Die mittlere Haut des Vorderarms
The middle skin of the side of the arm
Pau entre l'épaule et le poignet du bras
La piel del antebrazo del lado del brazo

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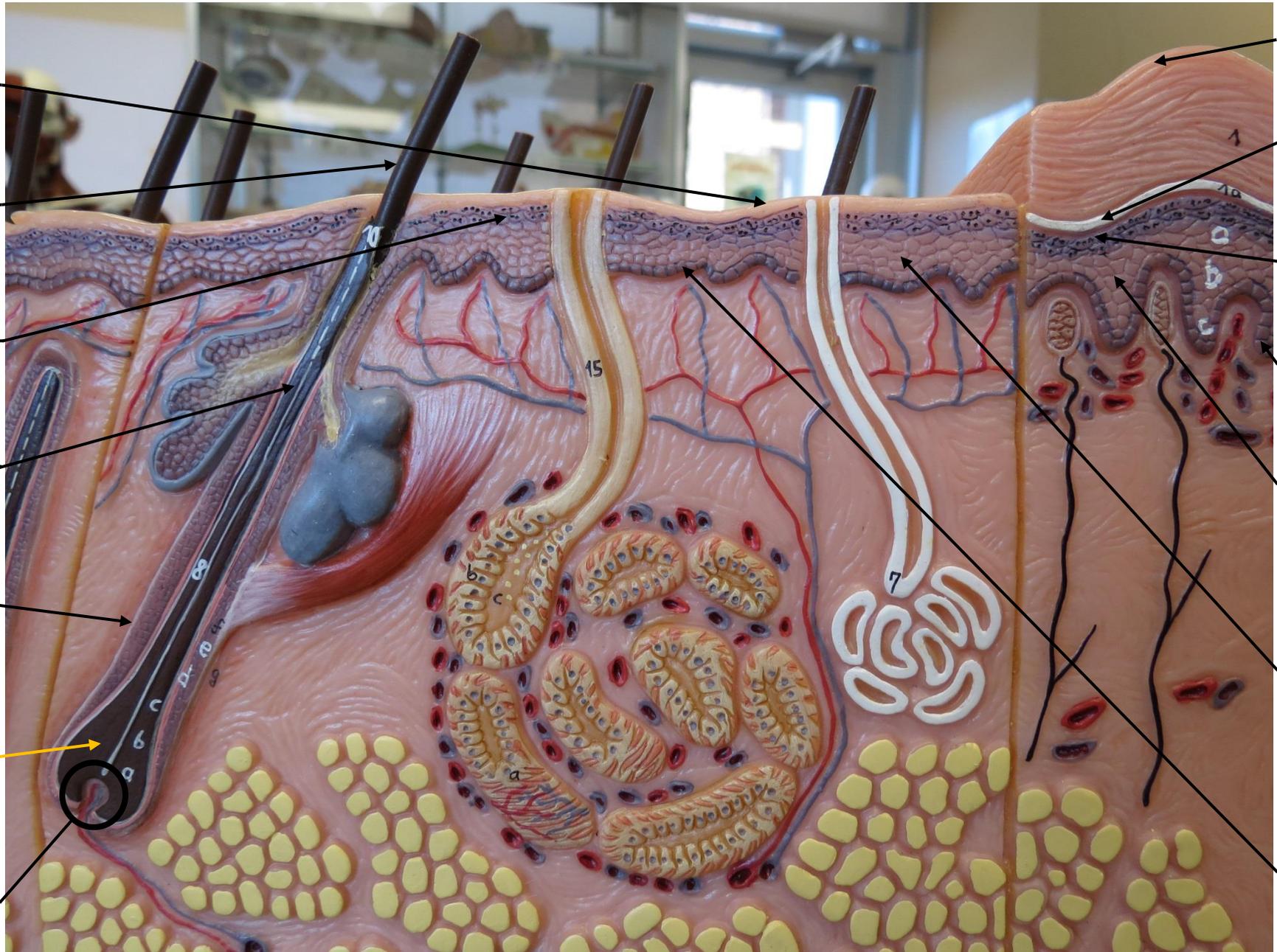
SKIN MODEL



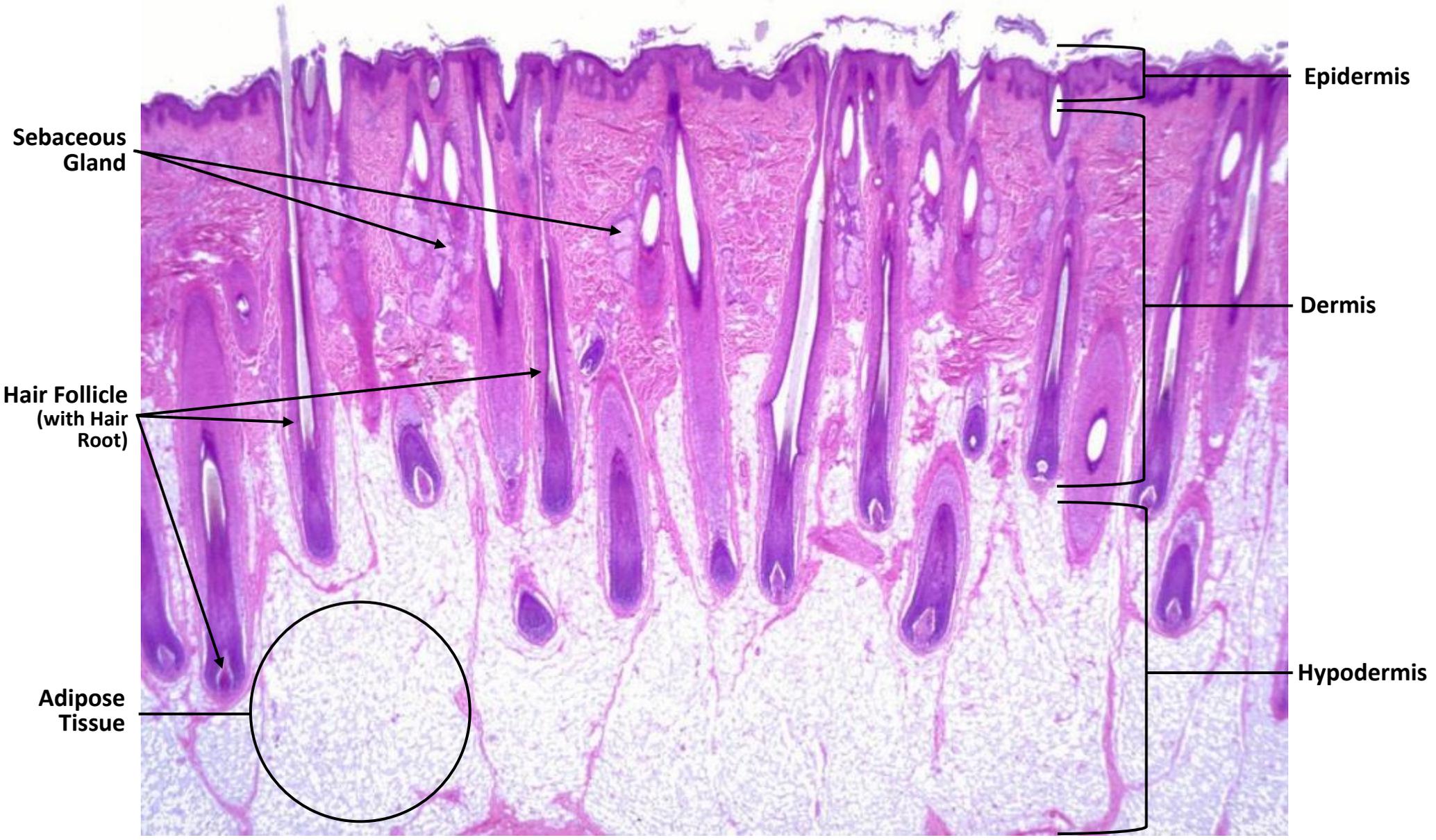
SKIN MODEL



SKIN MODEL



SKIN SLIDES



Sebaceous Gland

Hair Follicle (with Hair Root)

Adipose Tissue

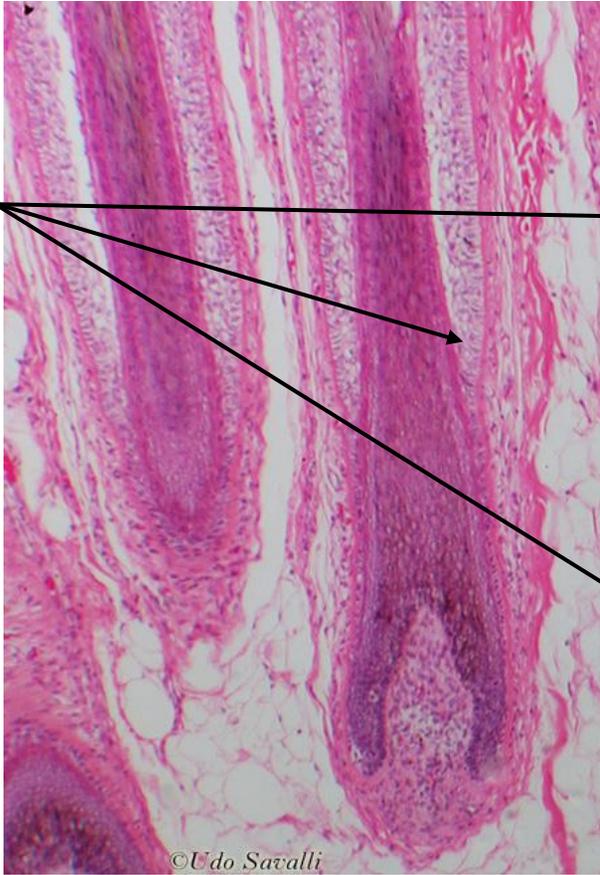
Epidermis

Dermis

Hypodermis

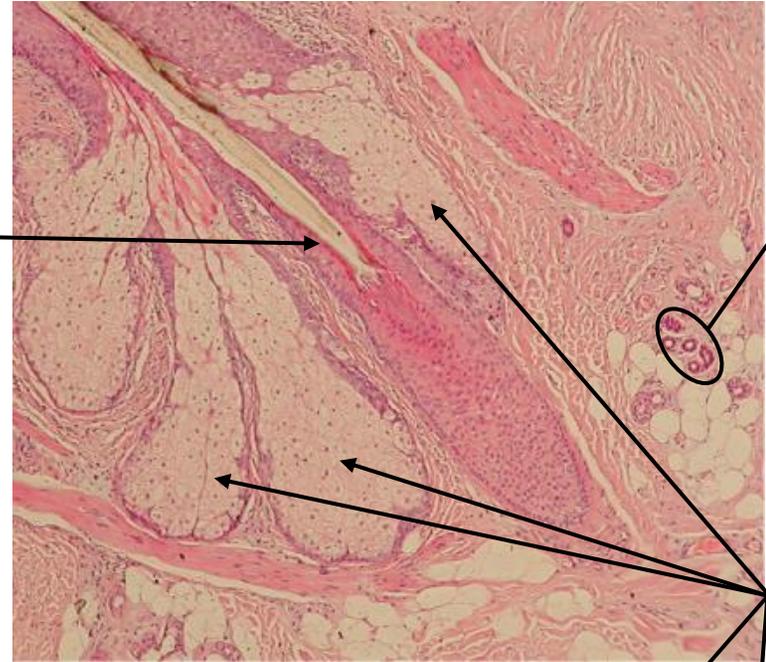
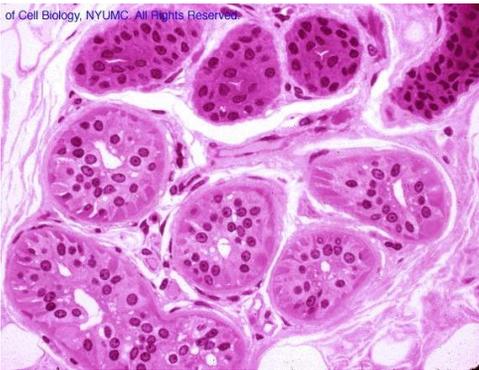
SKIN SLIDES

**Hair Follicle
(with Hair Root)**



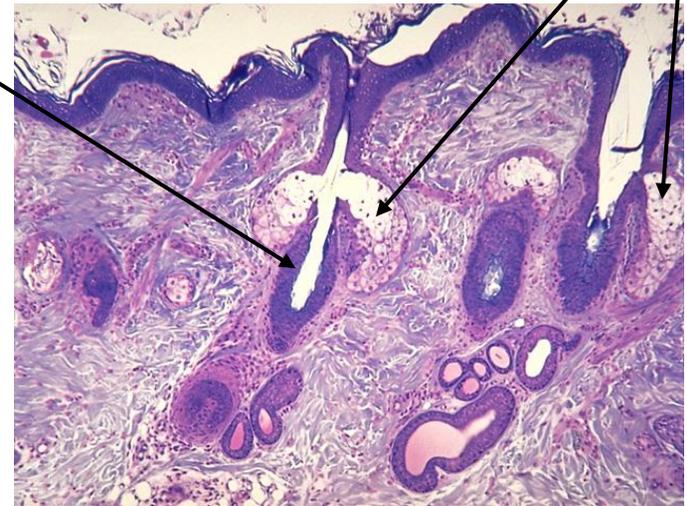
©Udo Savalli

**Sweat
Glands**

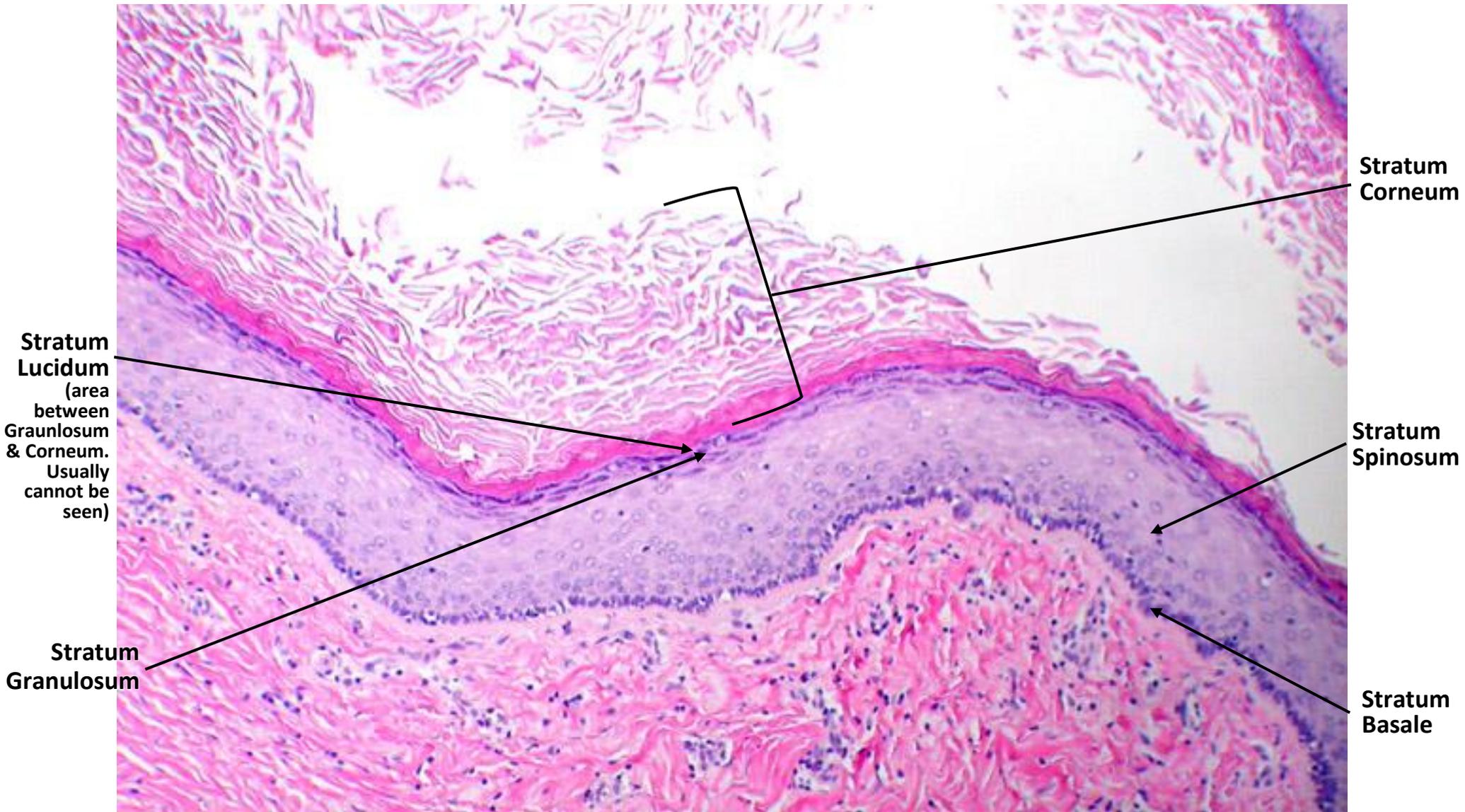


**Sweat
Glands**

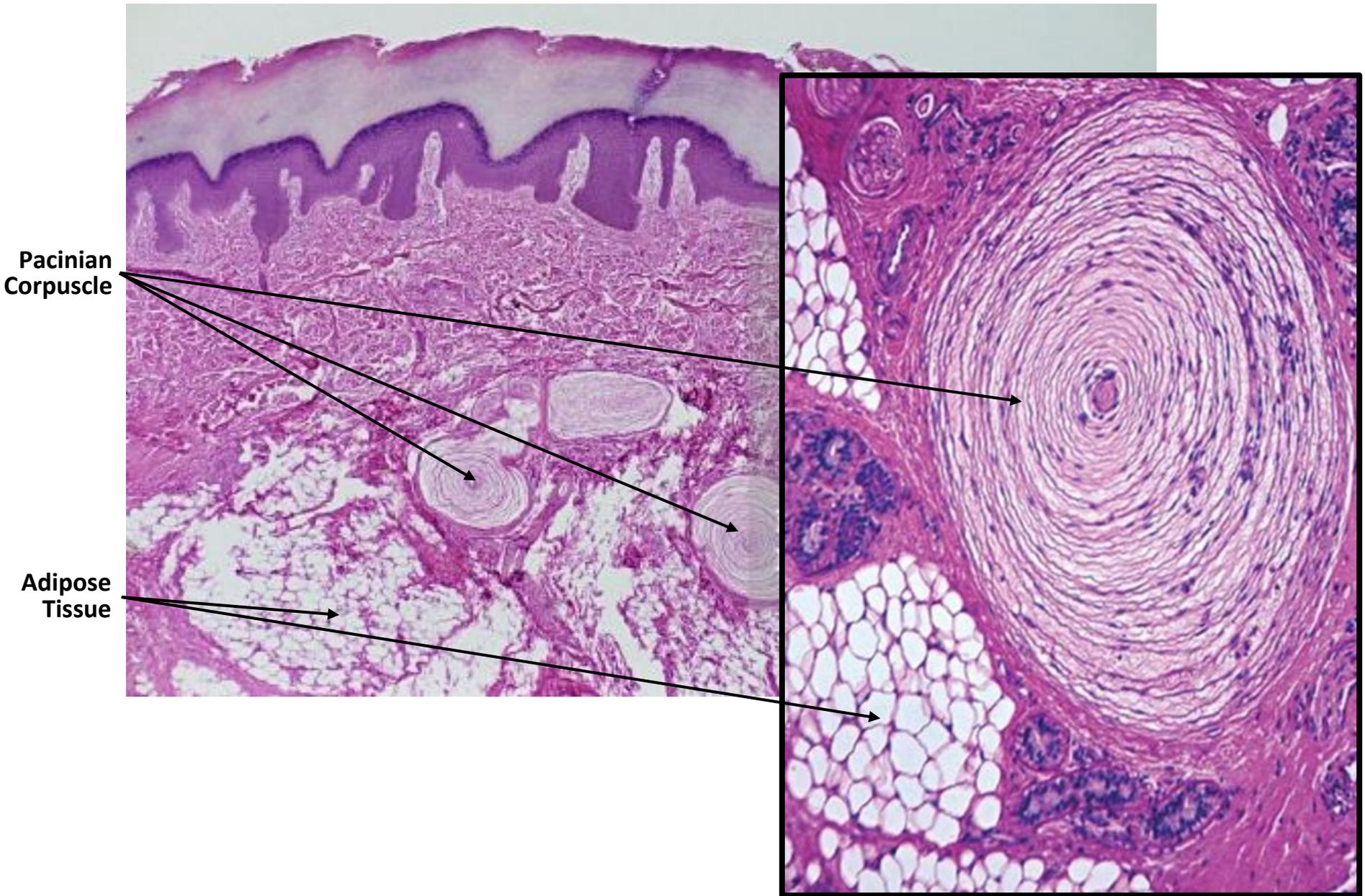
**Sebaceous
Gland**



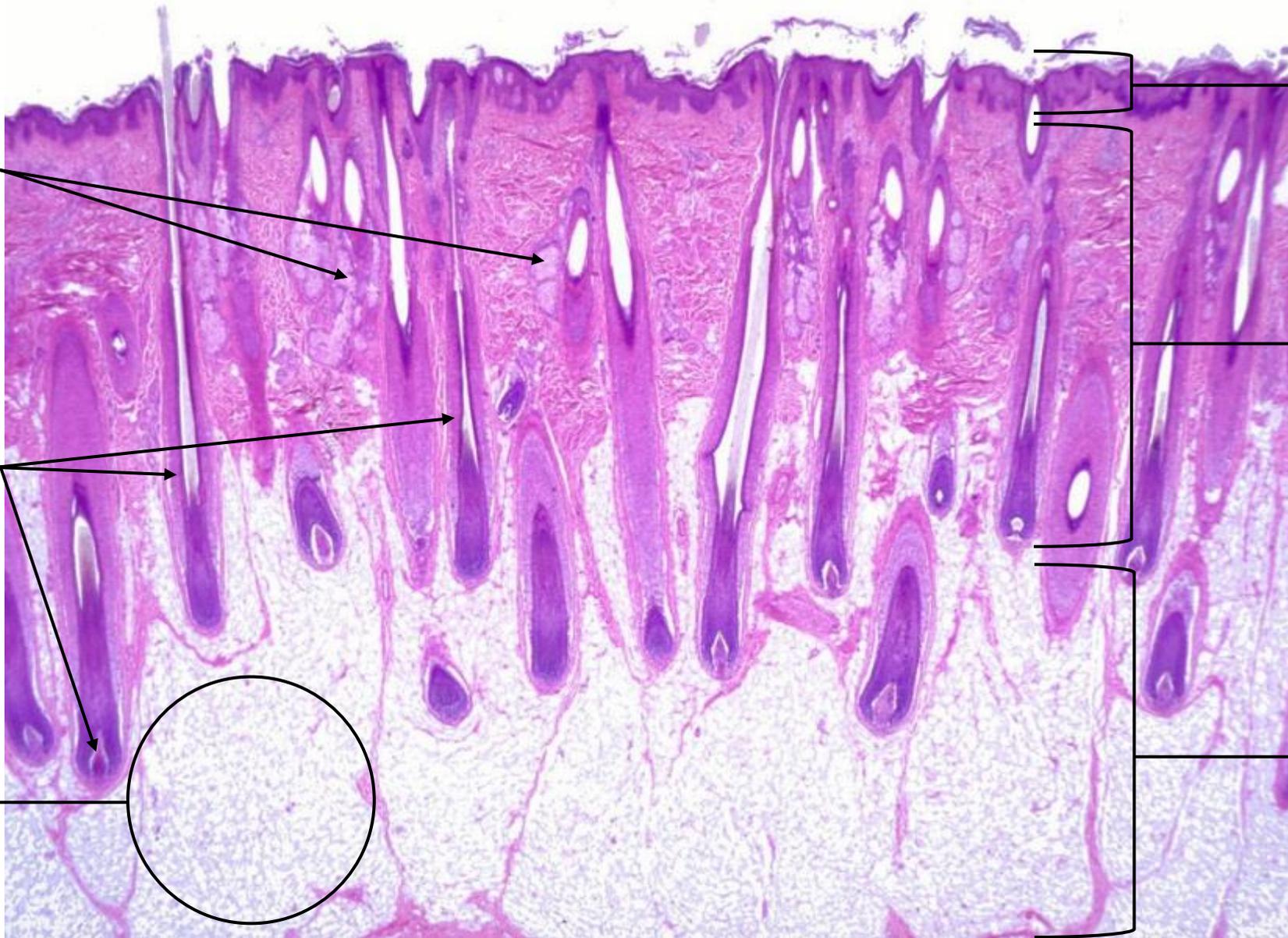
SKIN SLIDES



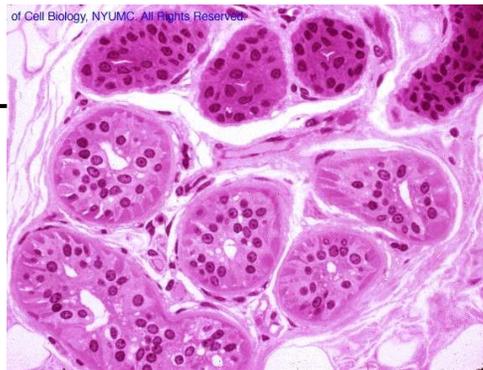
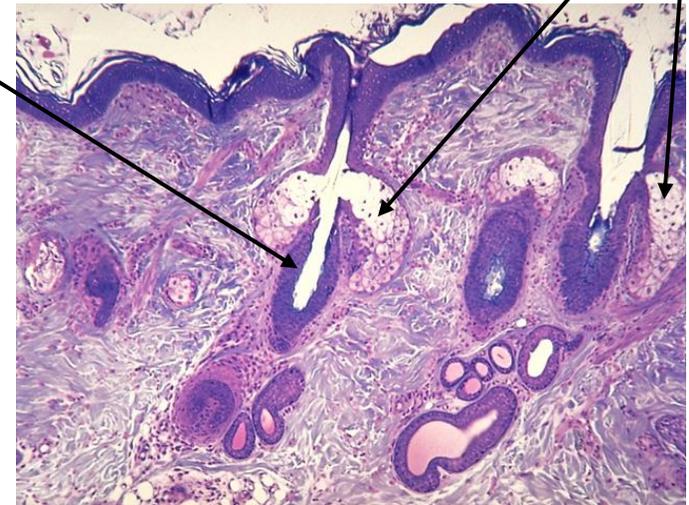
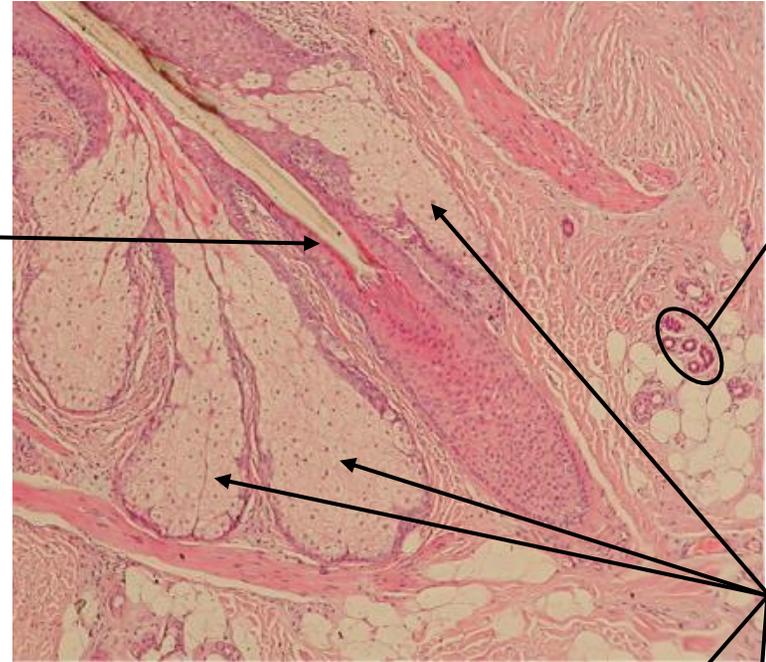
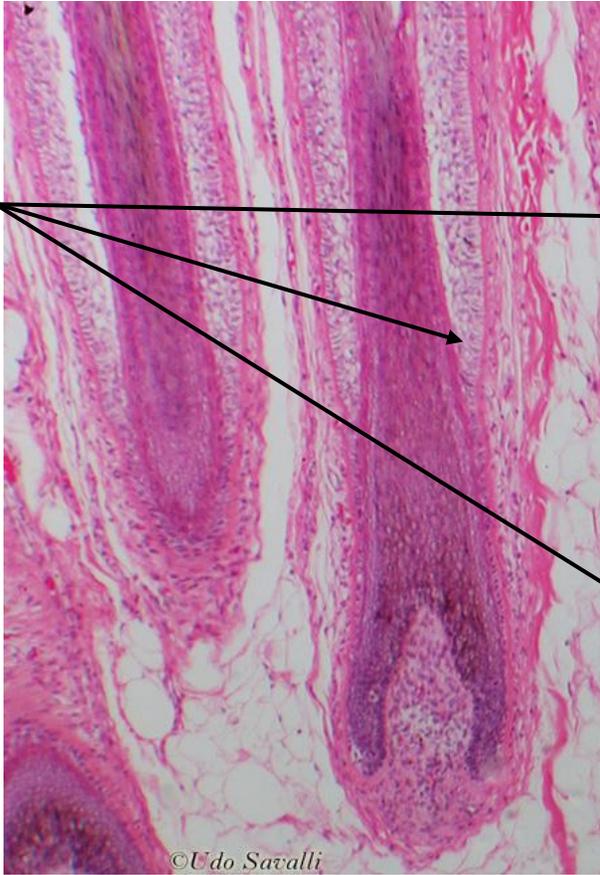
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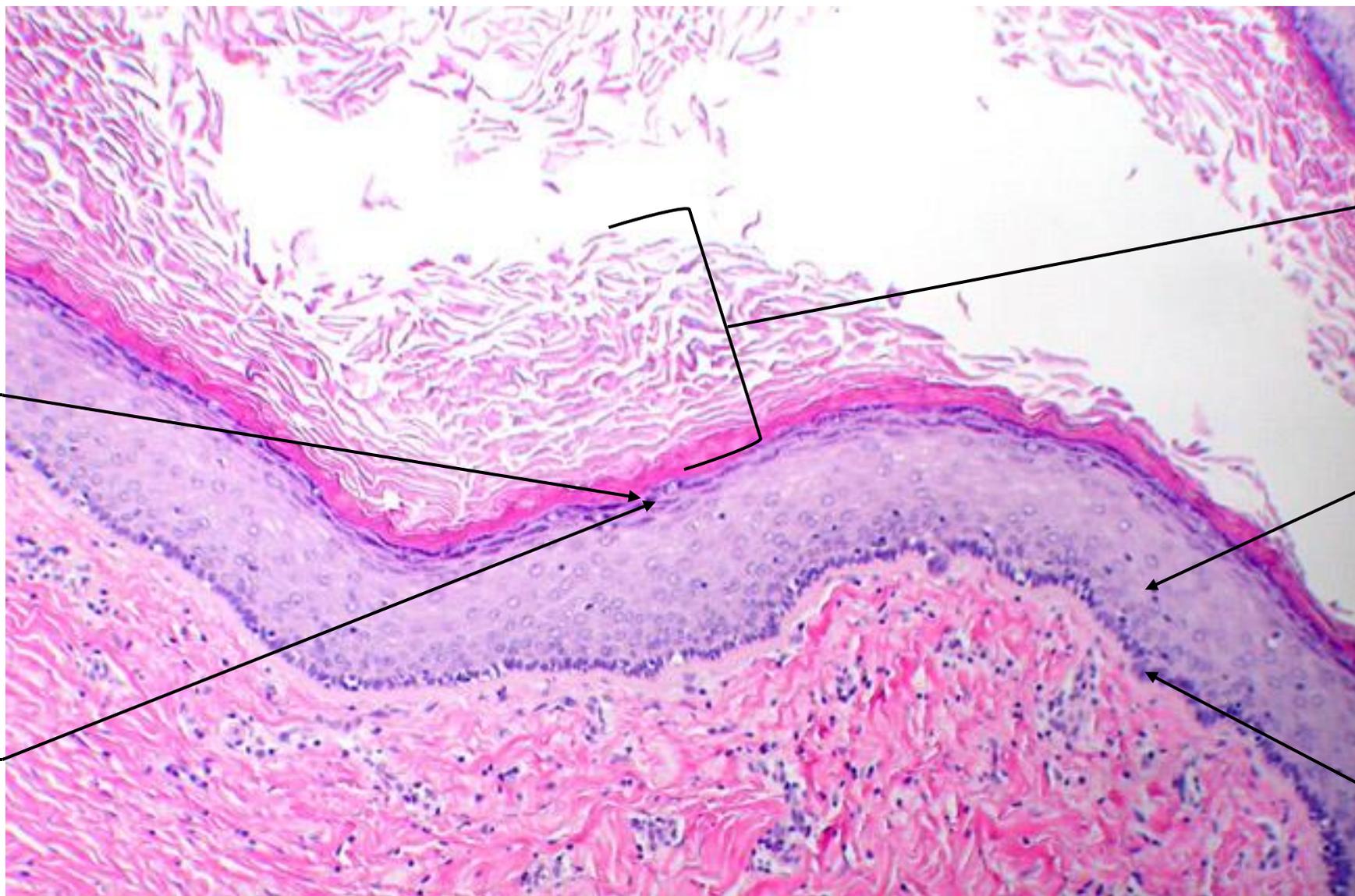
SKIN SLIDES



SKIN SLIDES



SKIN SLIDES



SKIN SLIDES

