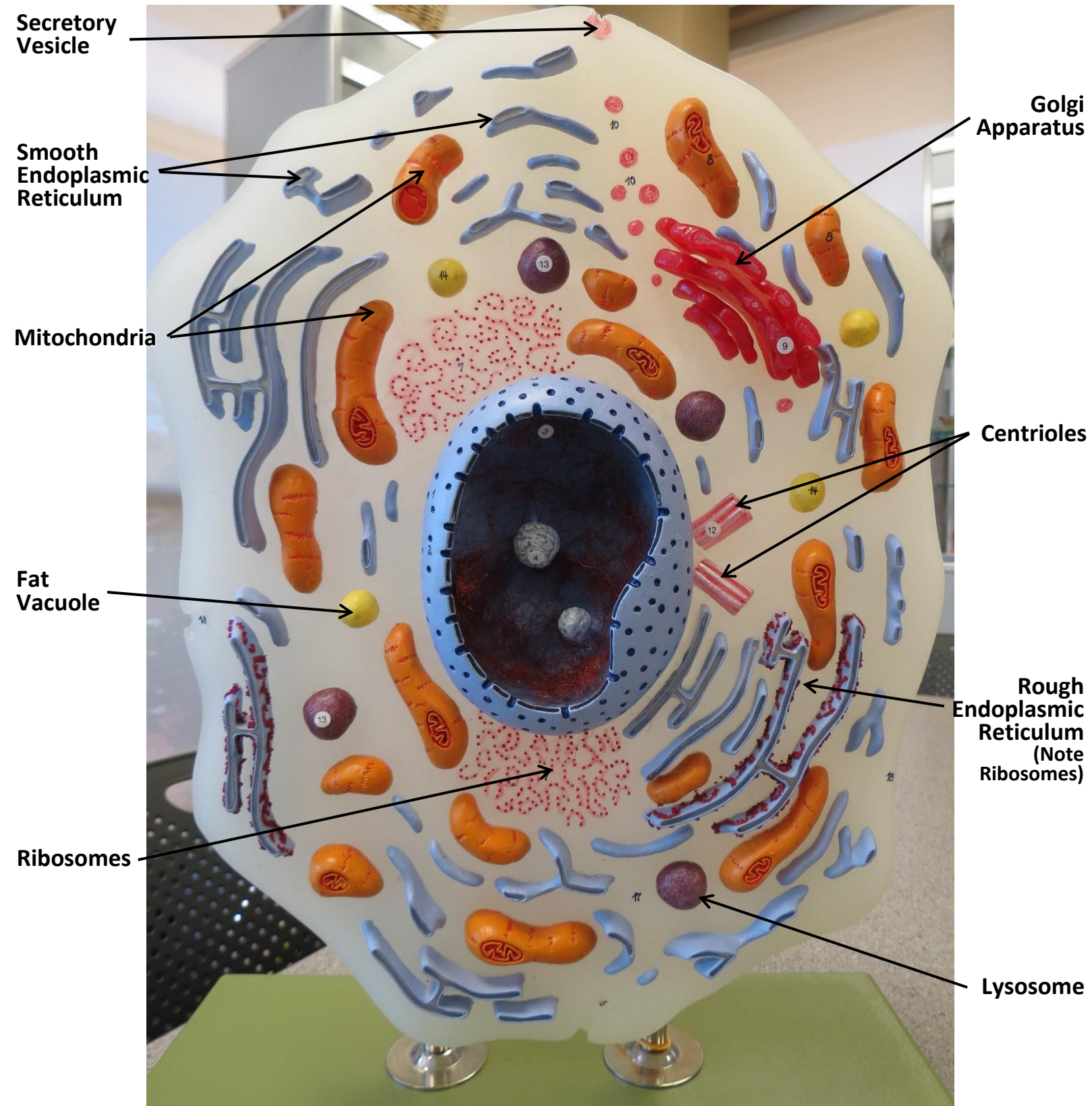
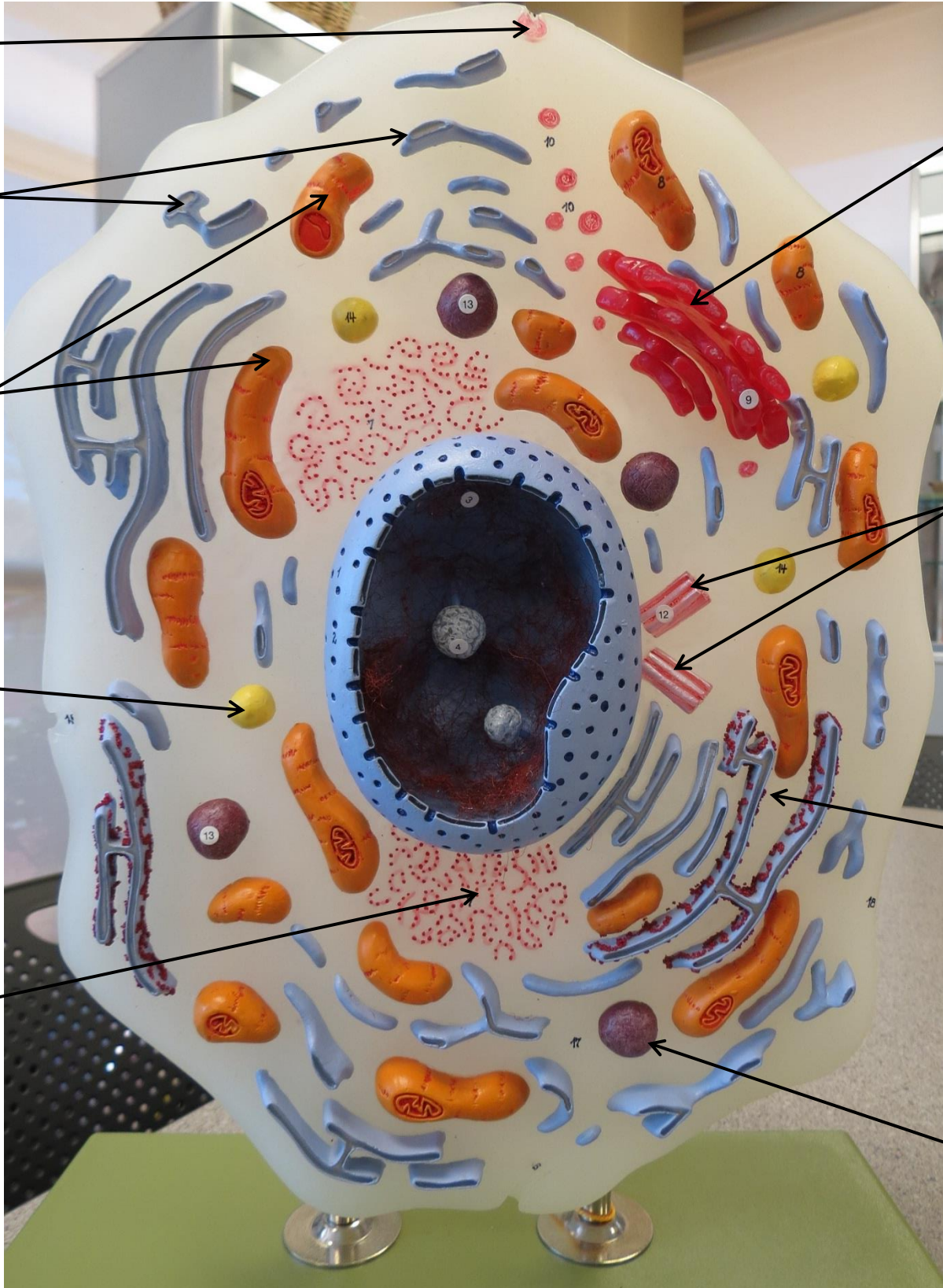


Cell Model



Cell Model



MITOSIS SLIDES



INTERPHASE



**EARLY
PROPHASE**



**LATE
PROPHASE**

MITOSIS SLIDES



METAPHASE



ANAPHASE

MITOSIS SLIDES



TELOPHASE

MITOSIS SLIDES



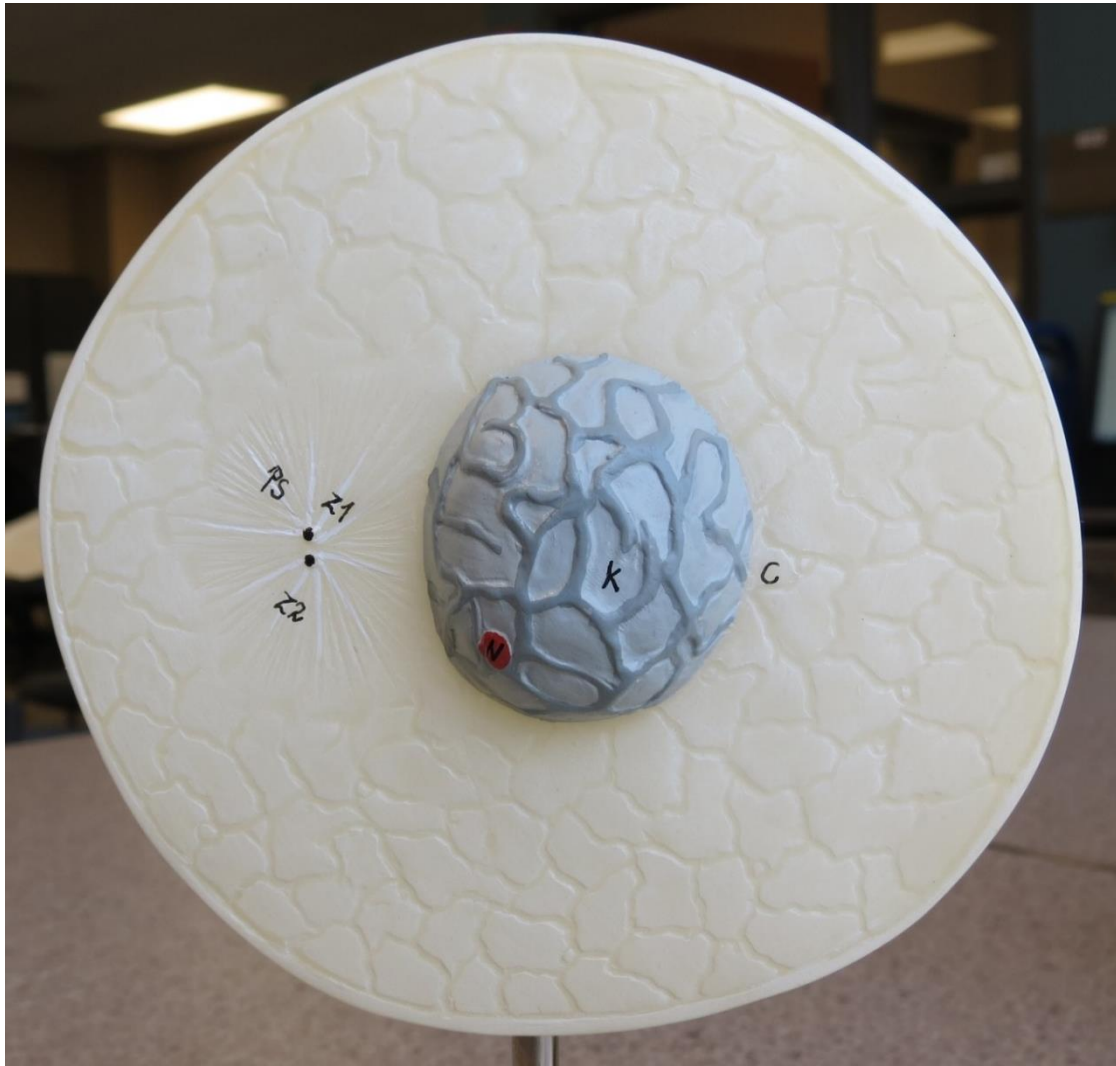
MITOSIS SLIDES



MITOSIS SLIDES



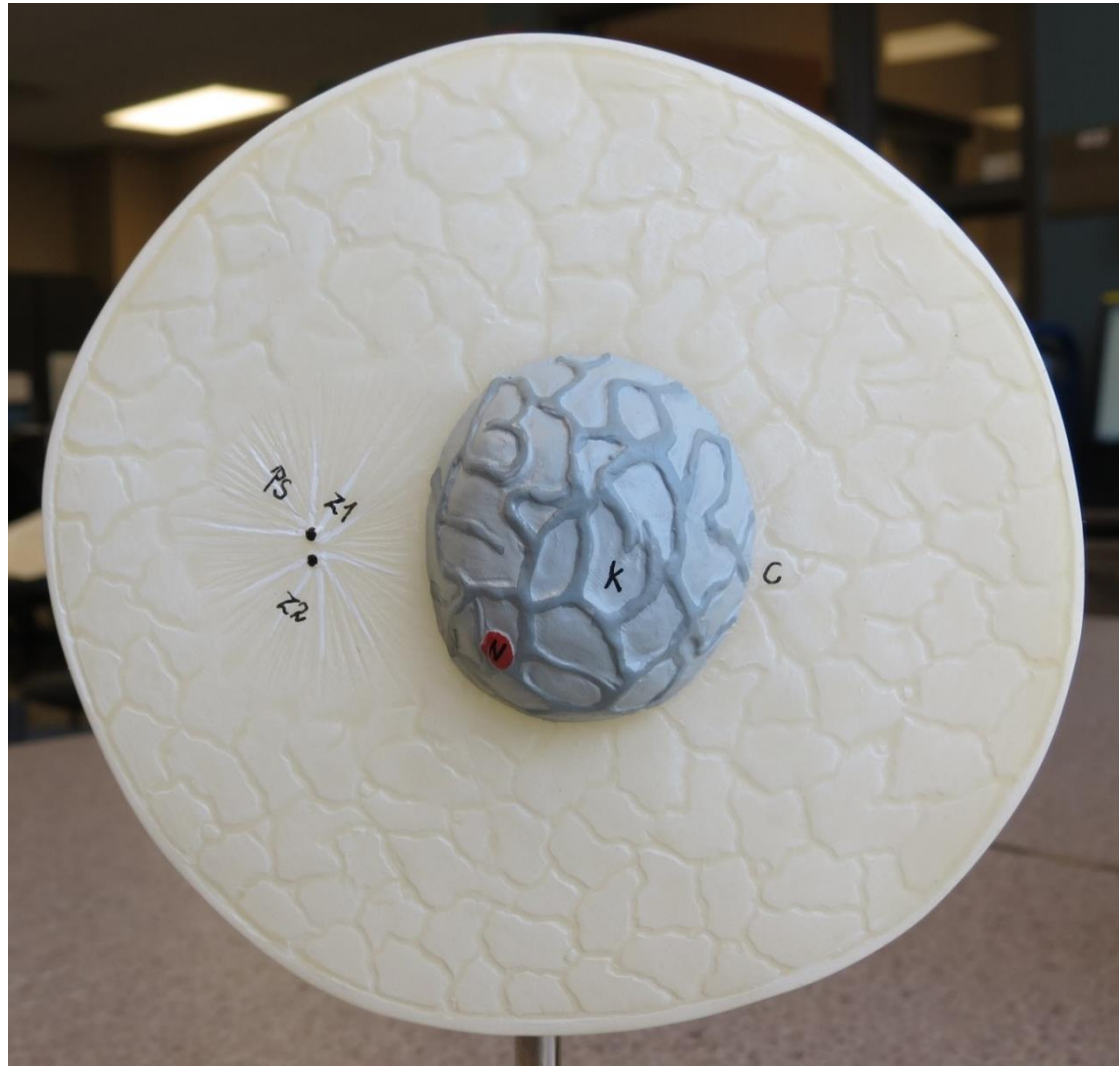
MITOSIS MODEL



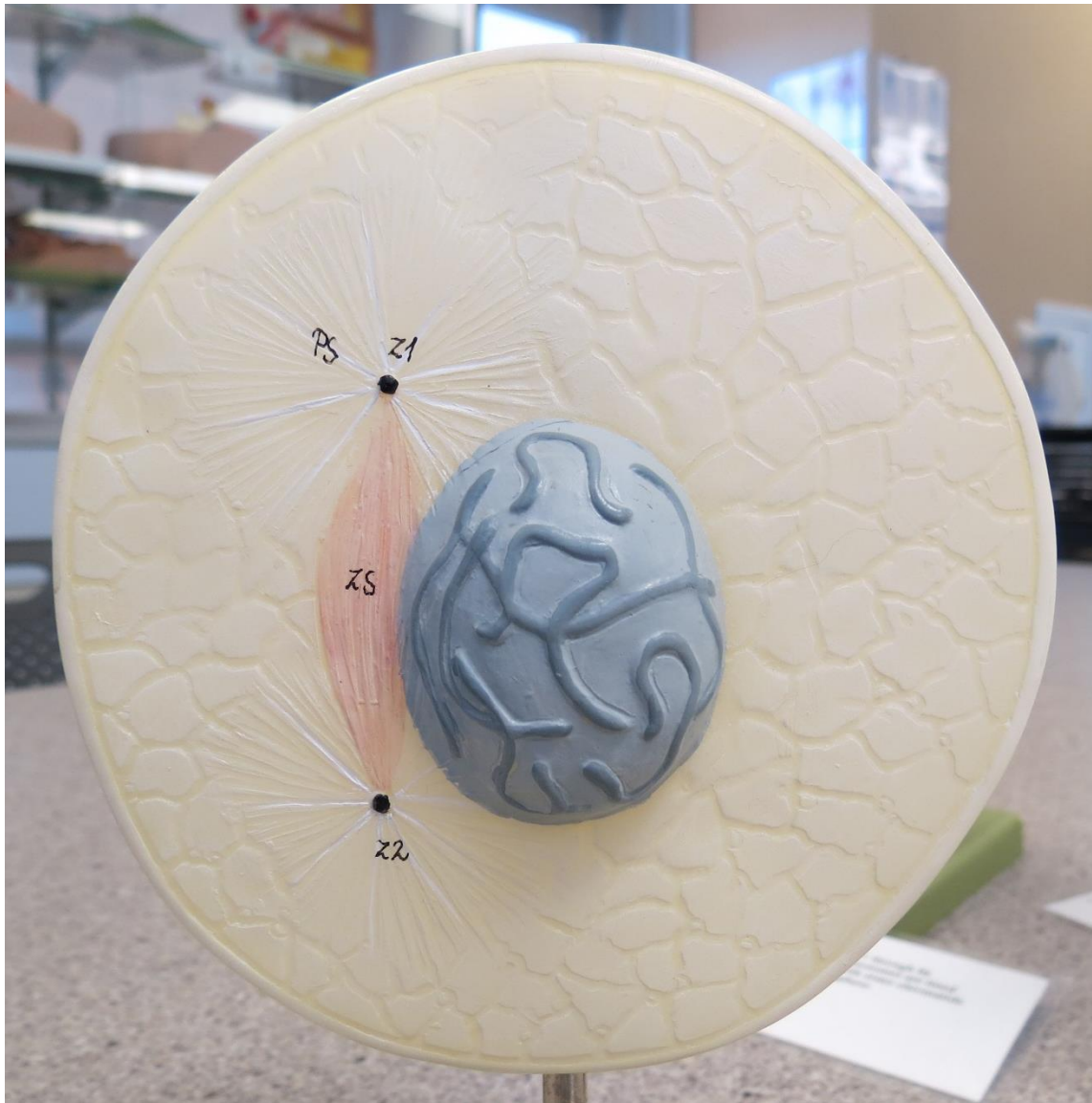
**Nucleus is intact.
Centrioles are close
together**

Interphase

MITOSIS MODEL



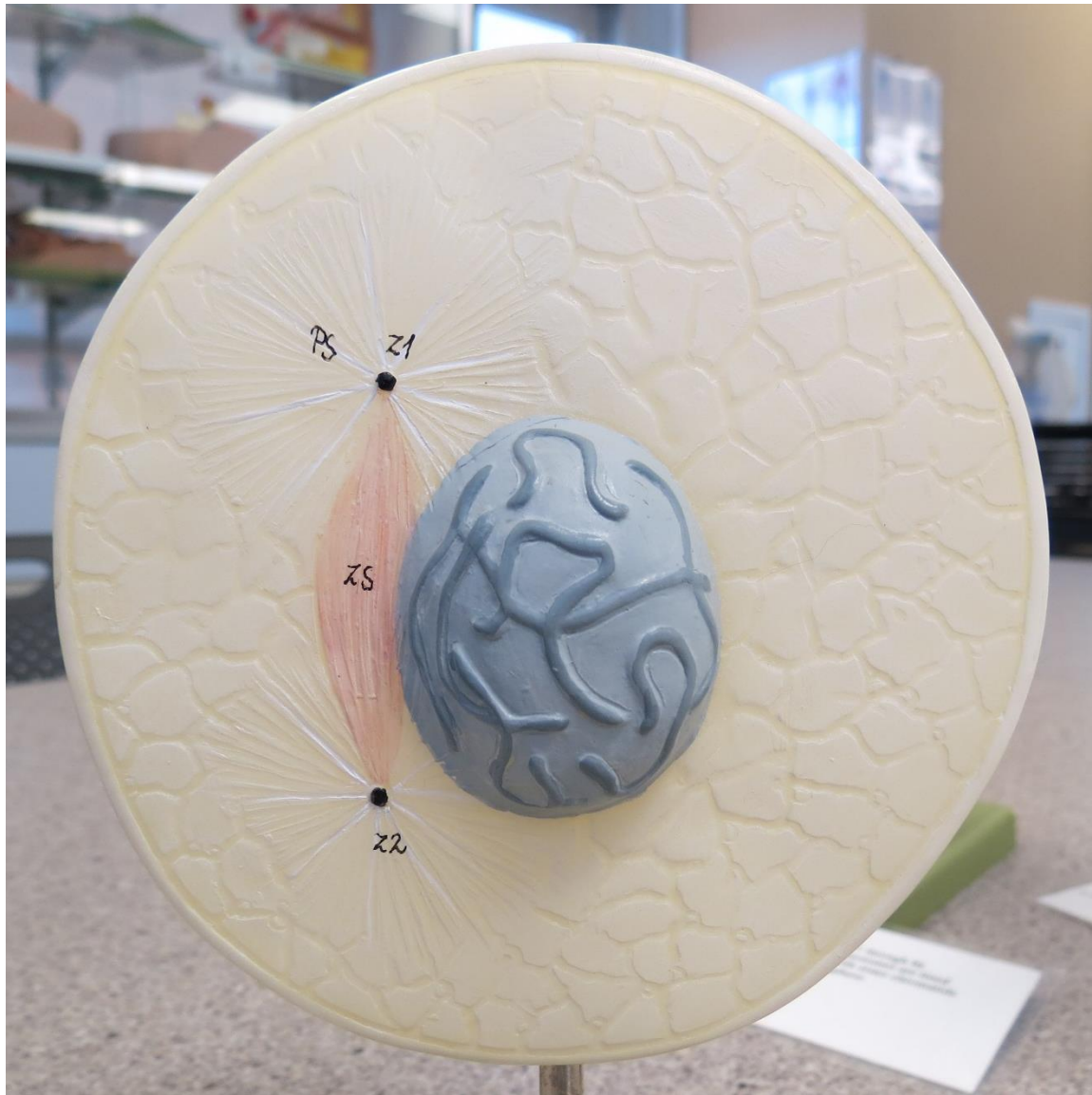
MITOSIS MODEL



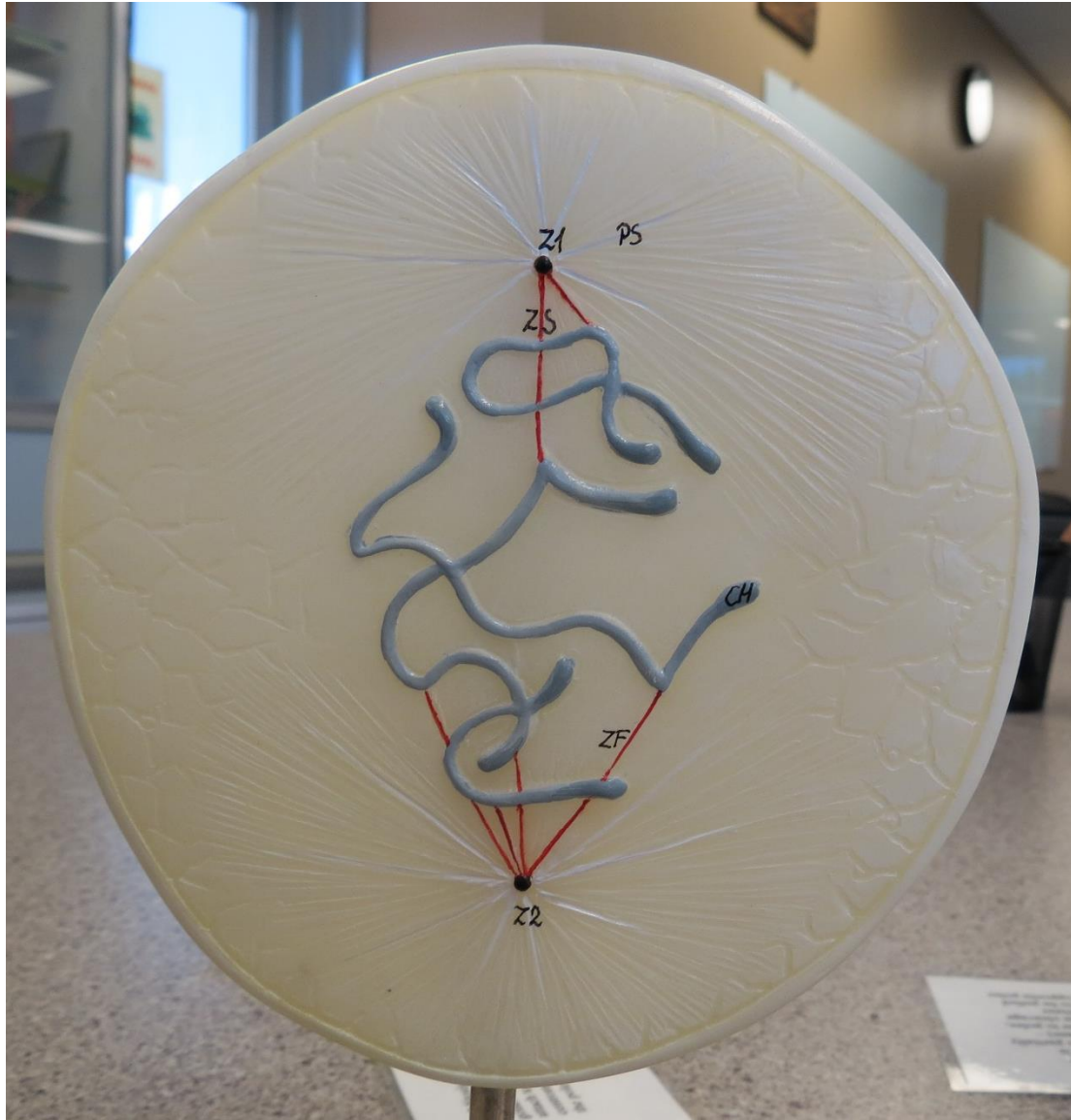
**Centrioles are
moving apart.
Nucleus (with chromatin)
is still intact.**

Early Prophase

MITOSIS MODEL



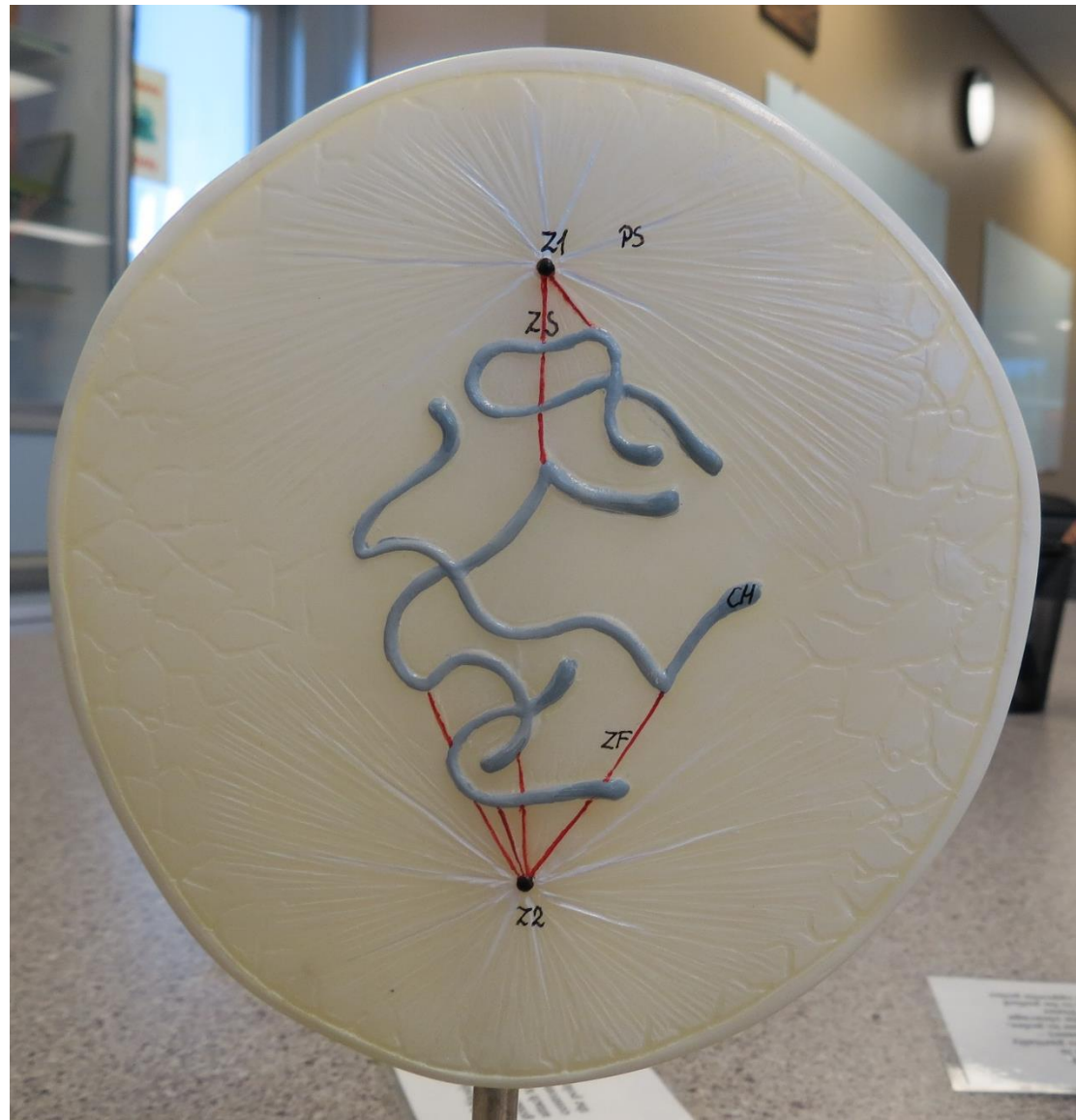
MITOSIS MODEL



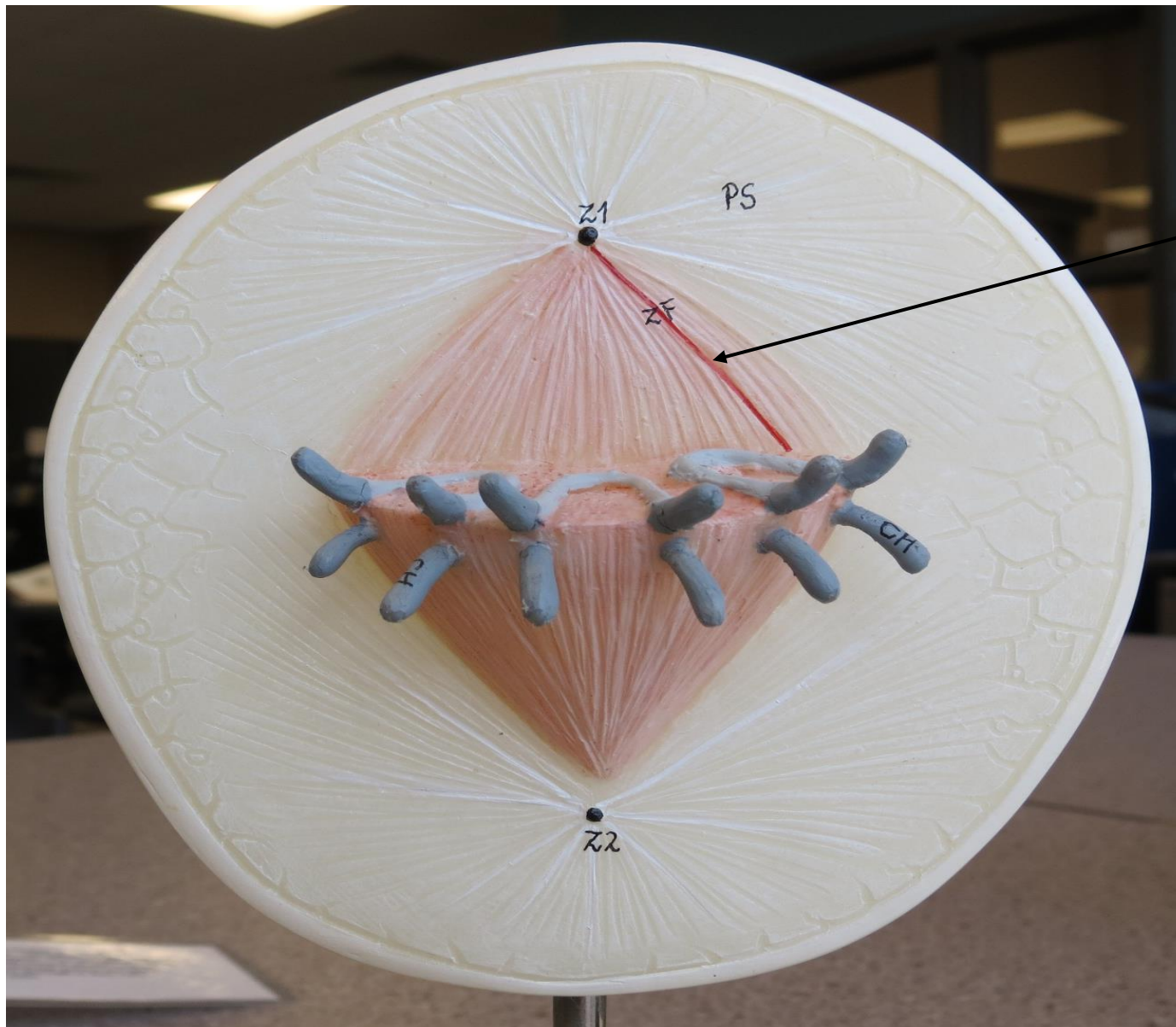
Centrioles are at opposite ends. Nucleus breaks apart, forming chromosomes.

Late Prophase

MITOSIS MODEL



MITOSIS MODEL

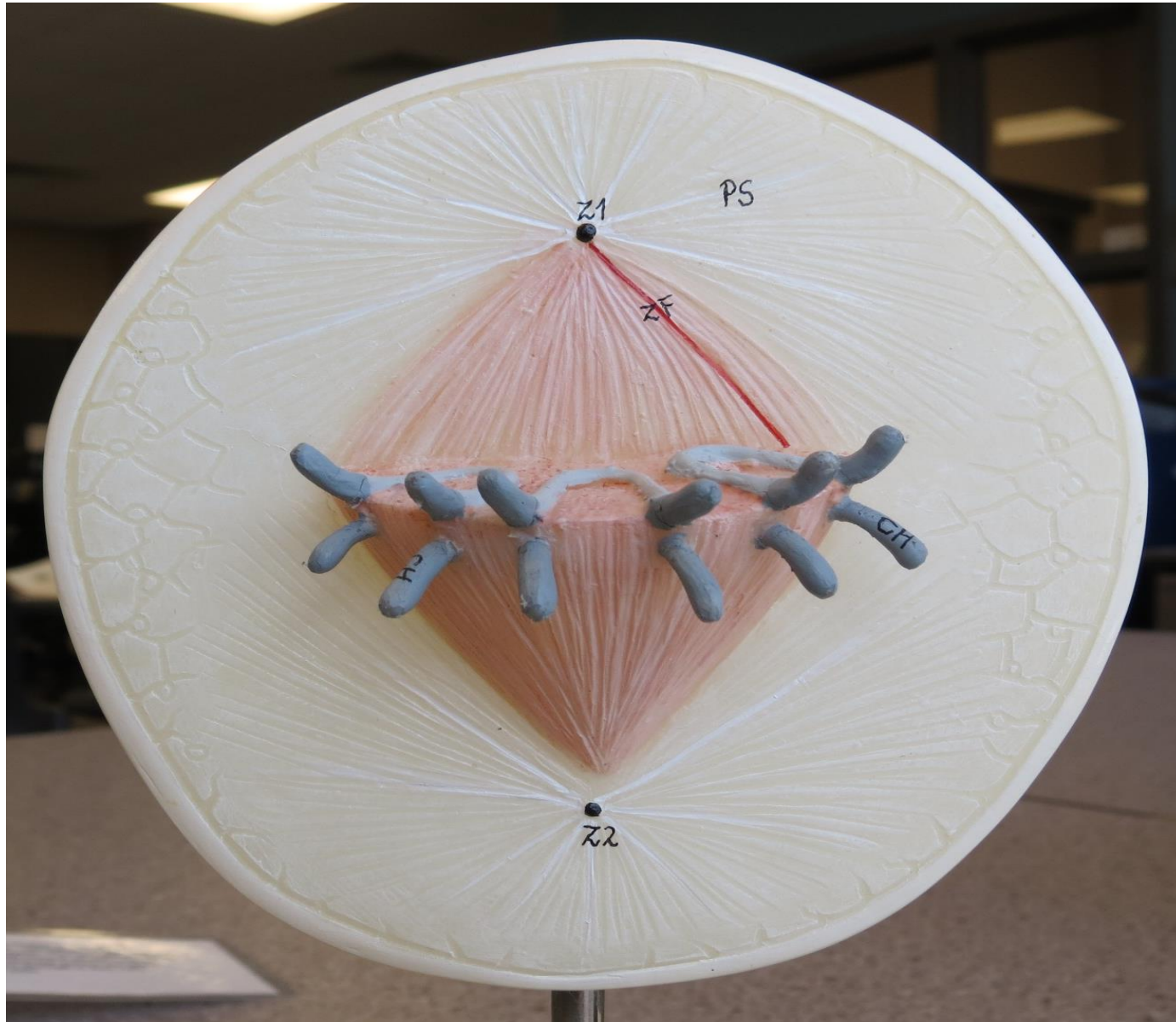


Spindle Fiber

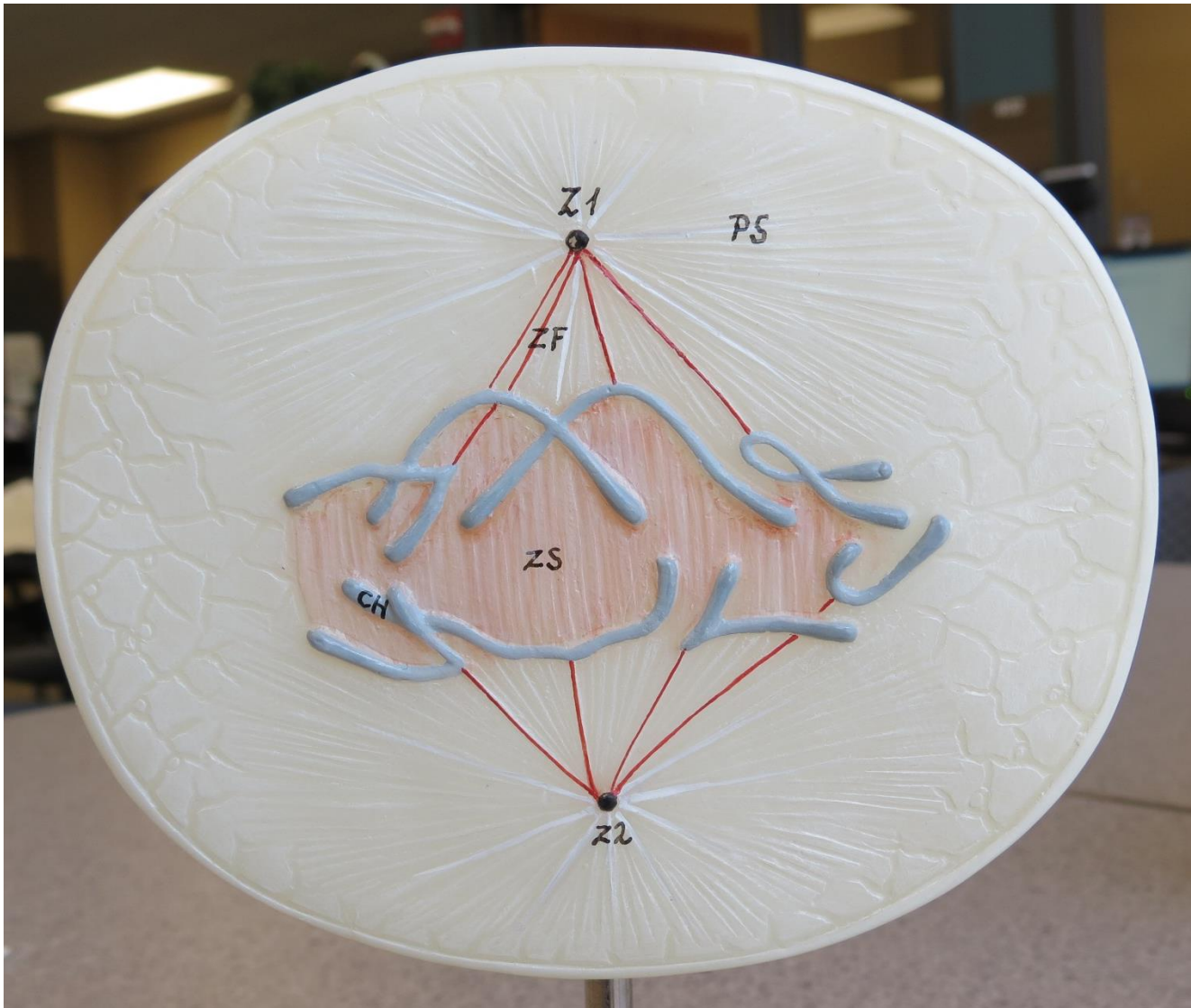
Chromosomes
are aligned in the
middle of the cell
forming sister
chromatids.

Metaphase

MITOSIS MODEL



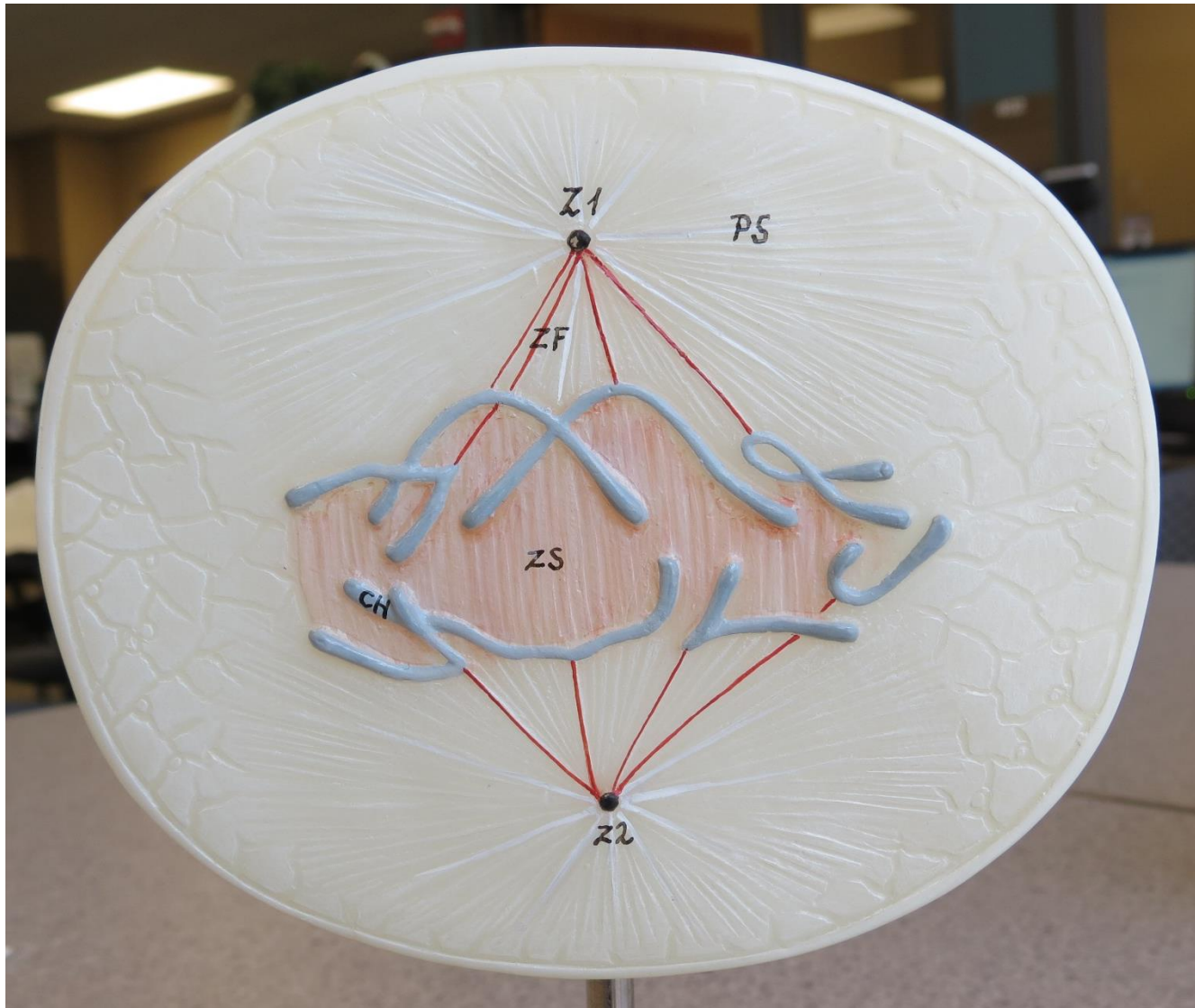
MITOSIS MODEL



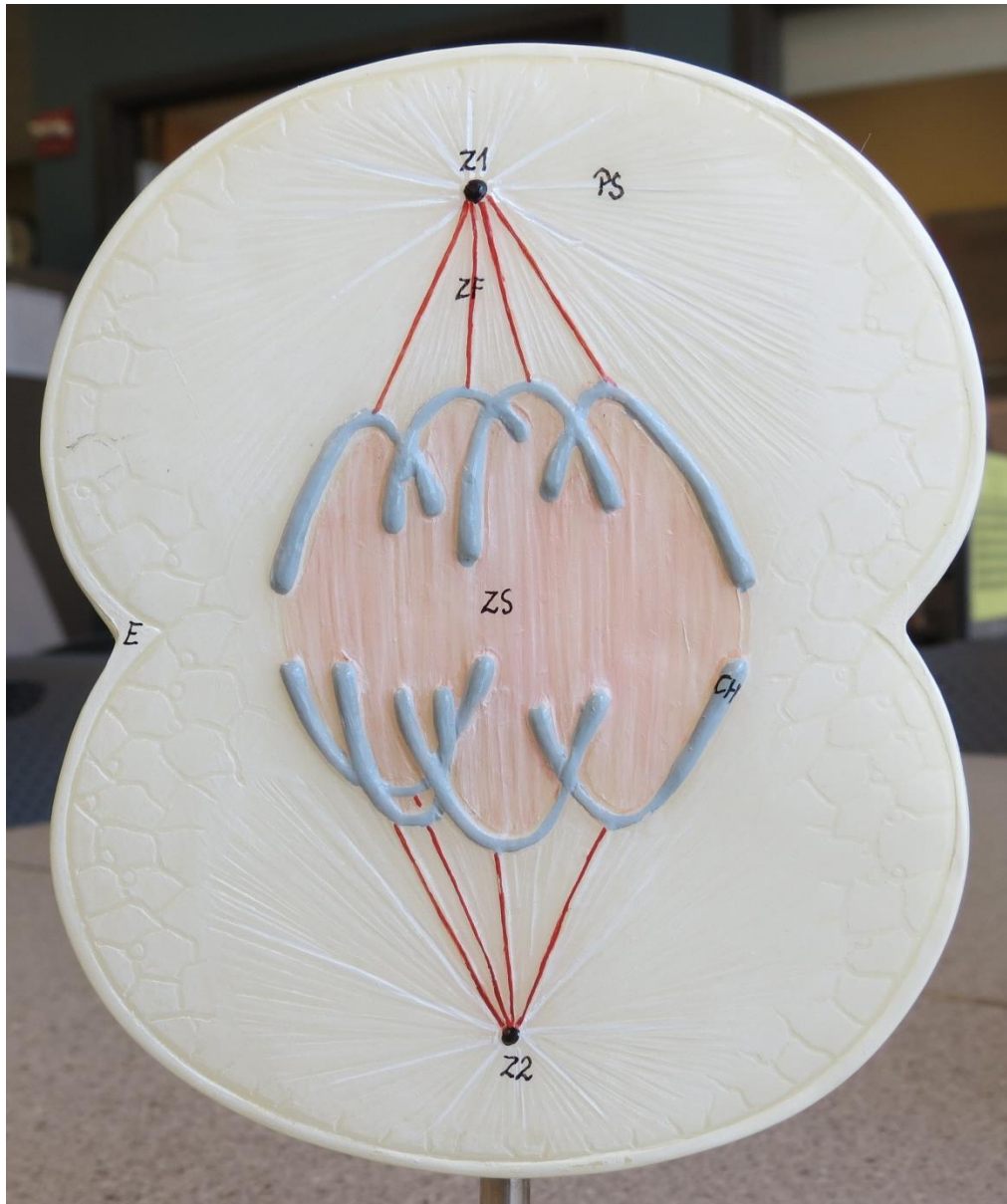
**Sister chromatids
separate forming
daughter
chromosomes.**

Anaphase

MITOSIS MODEL



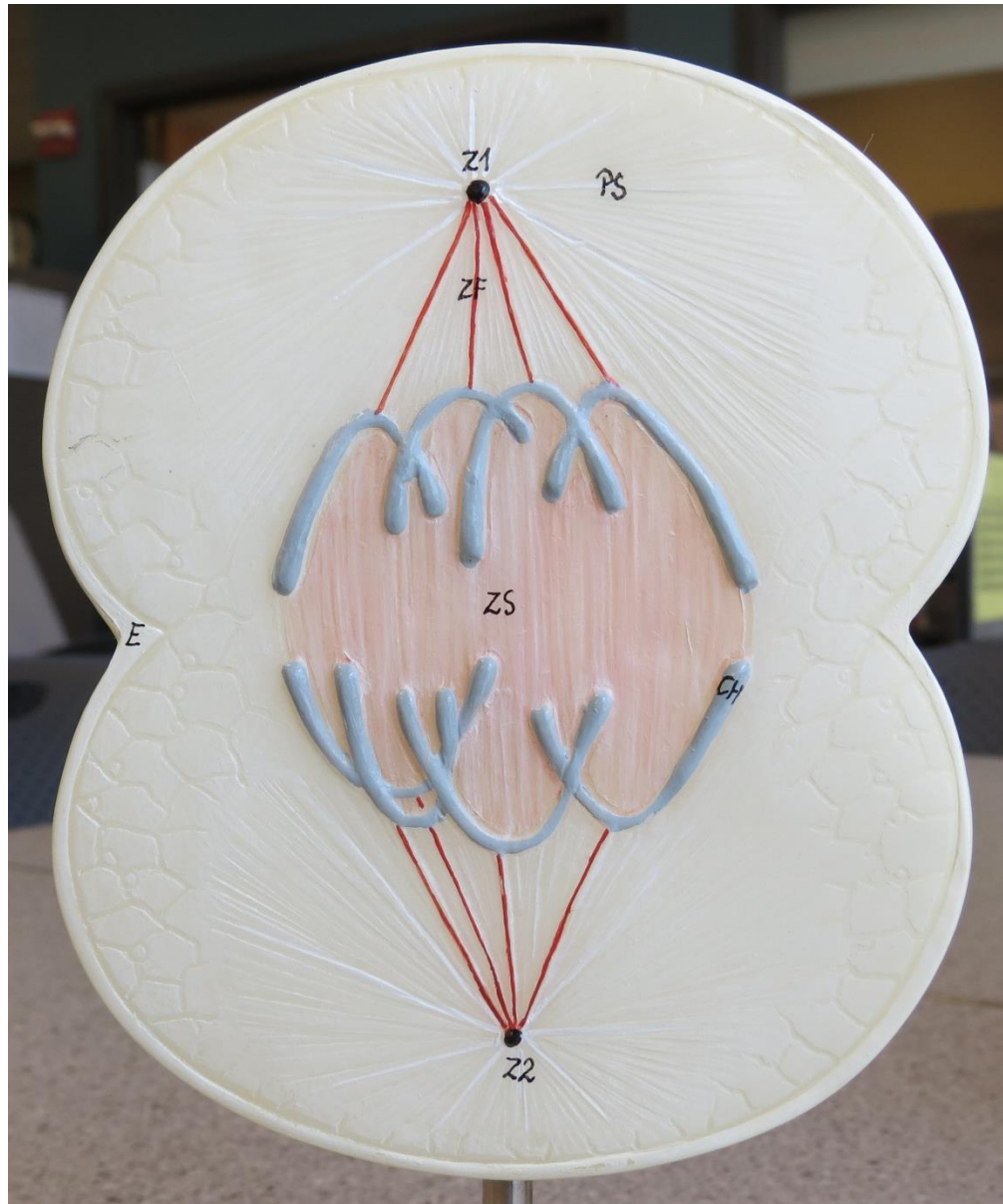
MITOSIS MODEL



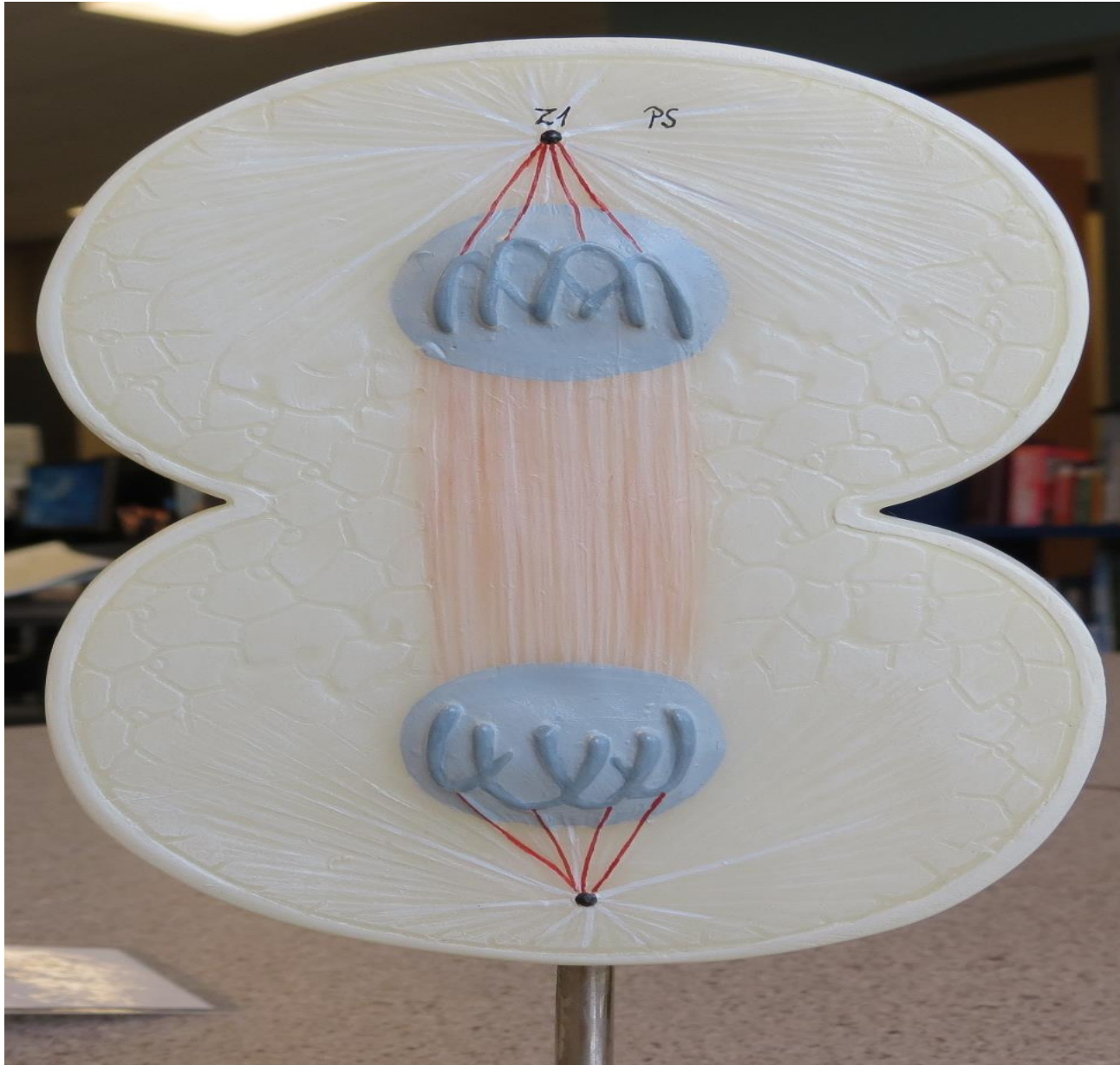
**Daughter
chromosomes become
further separated.**

Late Anaphase

MITOSIS MODEL



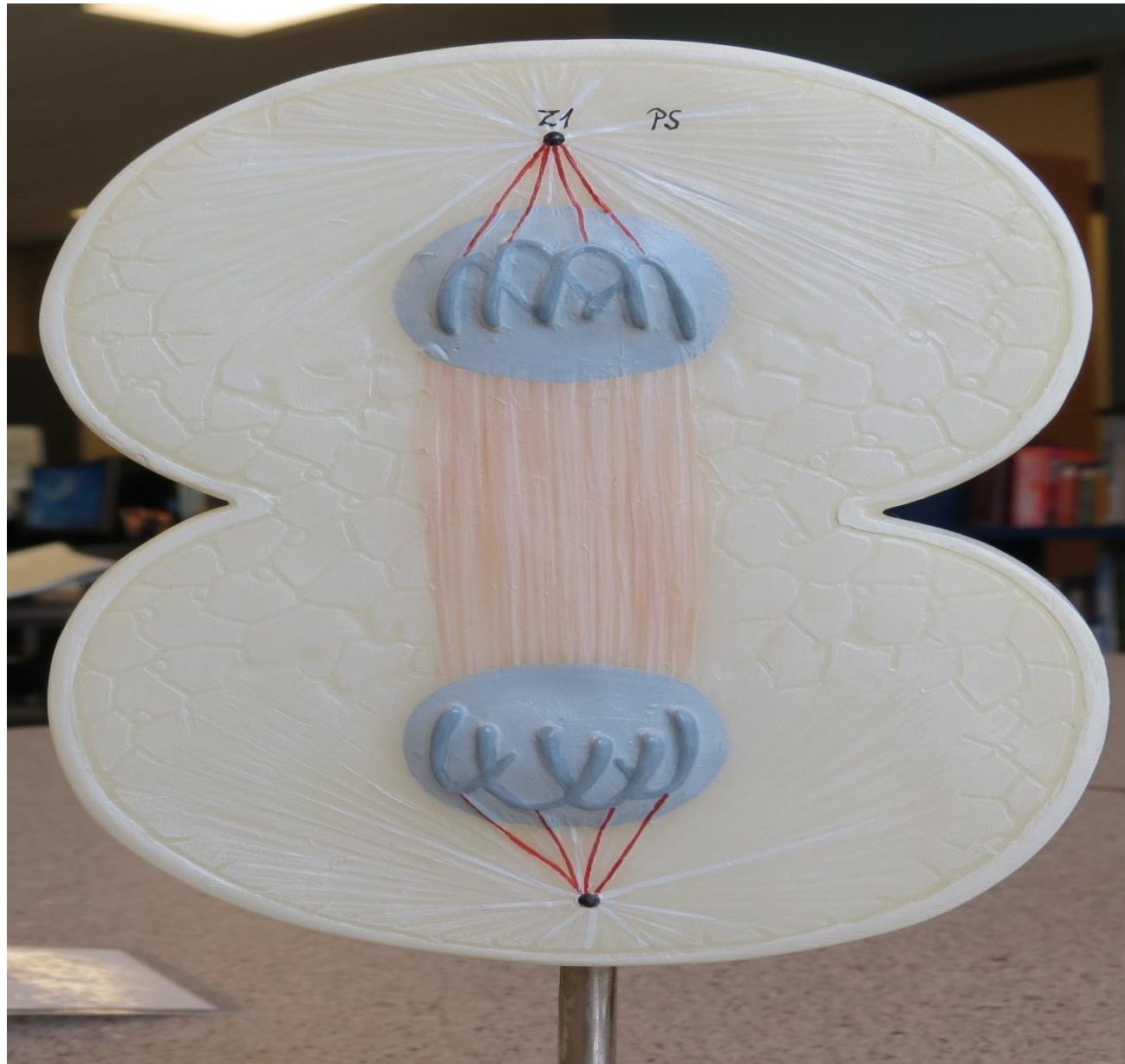
MITOSIS MODEL



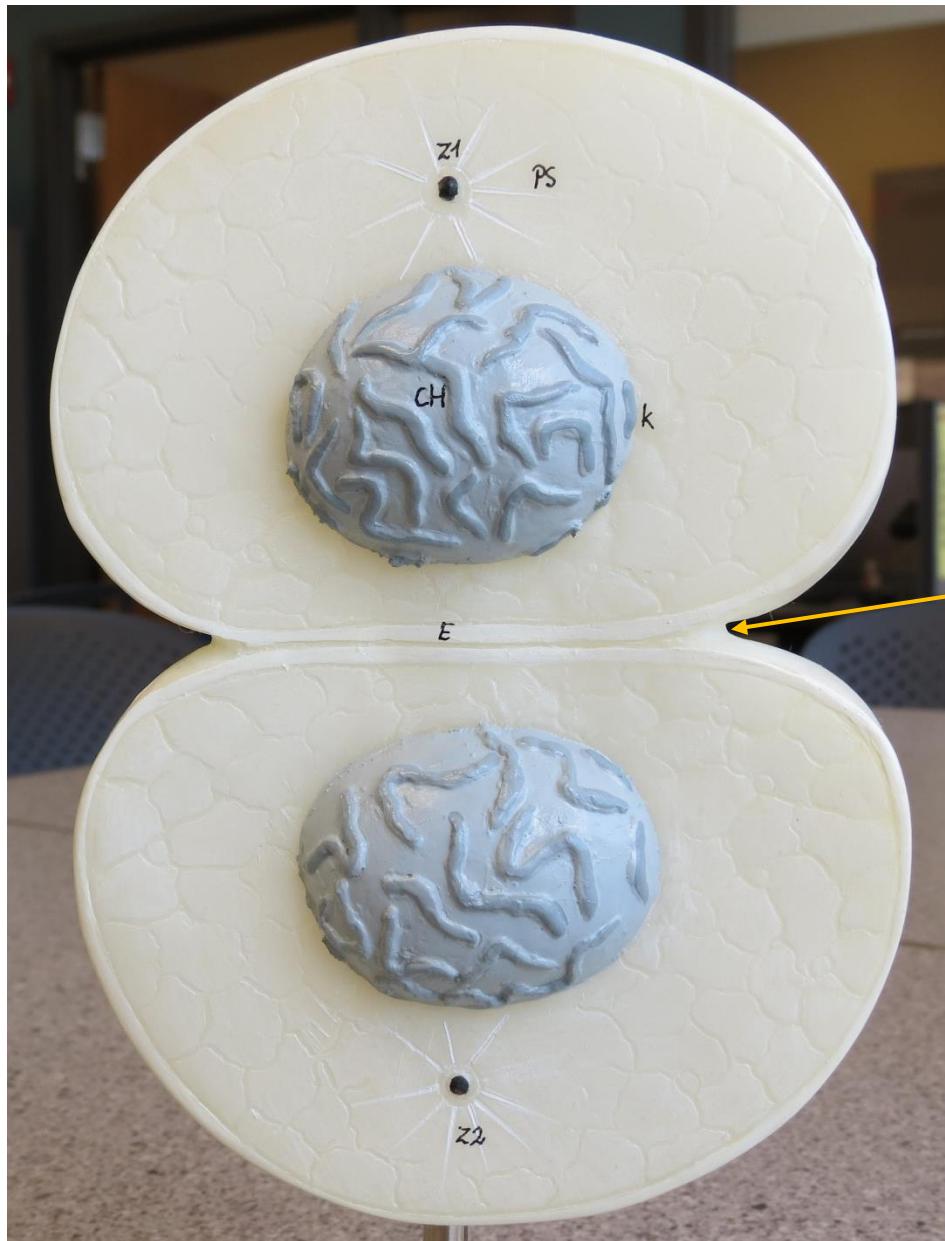
Chromosomes have completed their separation forming new nuclei. Cytokinesis causes cleavage furrow.

Telophase

MITOSIS MODEL



MITOSIS MODEL



(Note cell boundary between cells.)

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

Daughter Cells/ Interphase

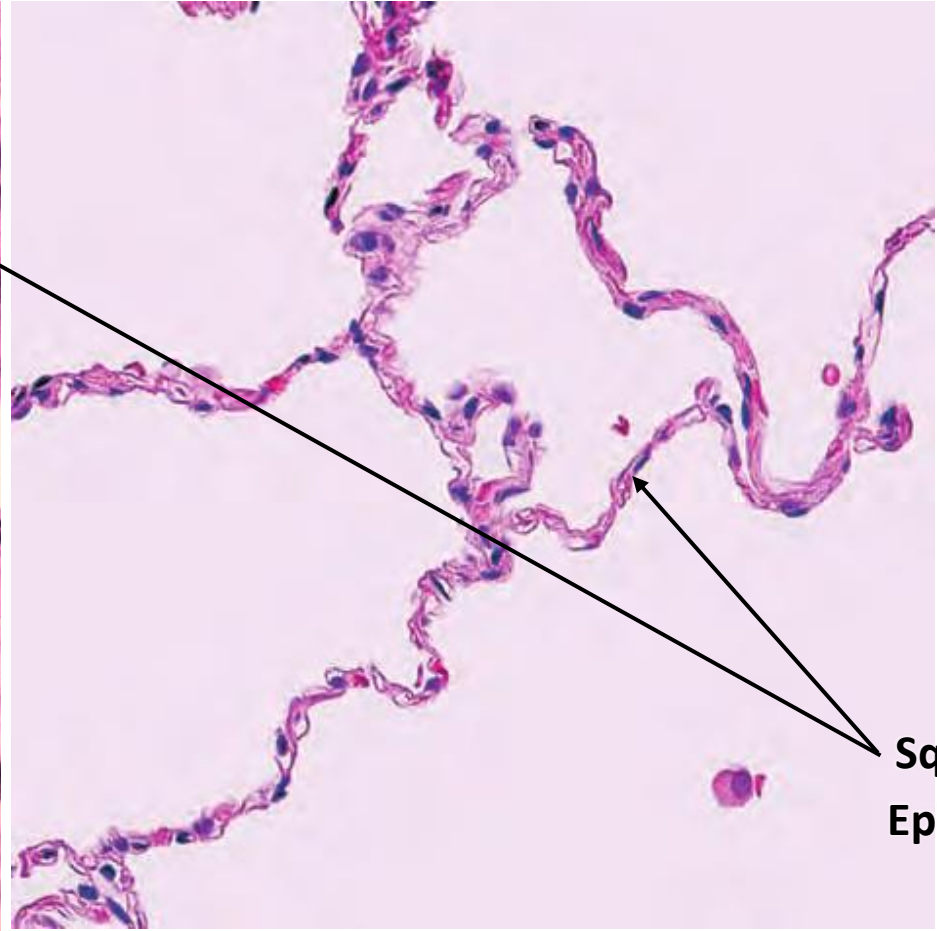
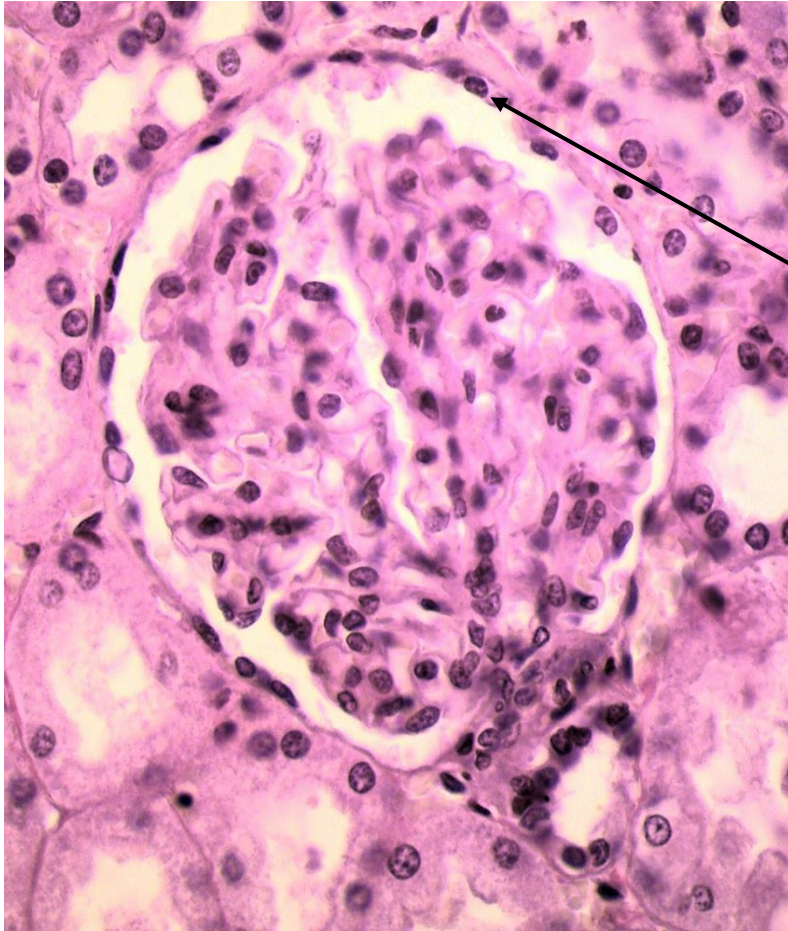
MITOSIS MODEL



SIMPLE SQUAMOUS EPITHELIUM

Function: Diffusion and filtration

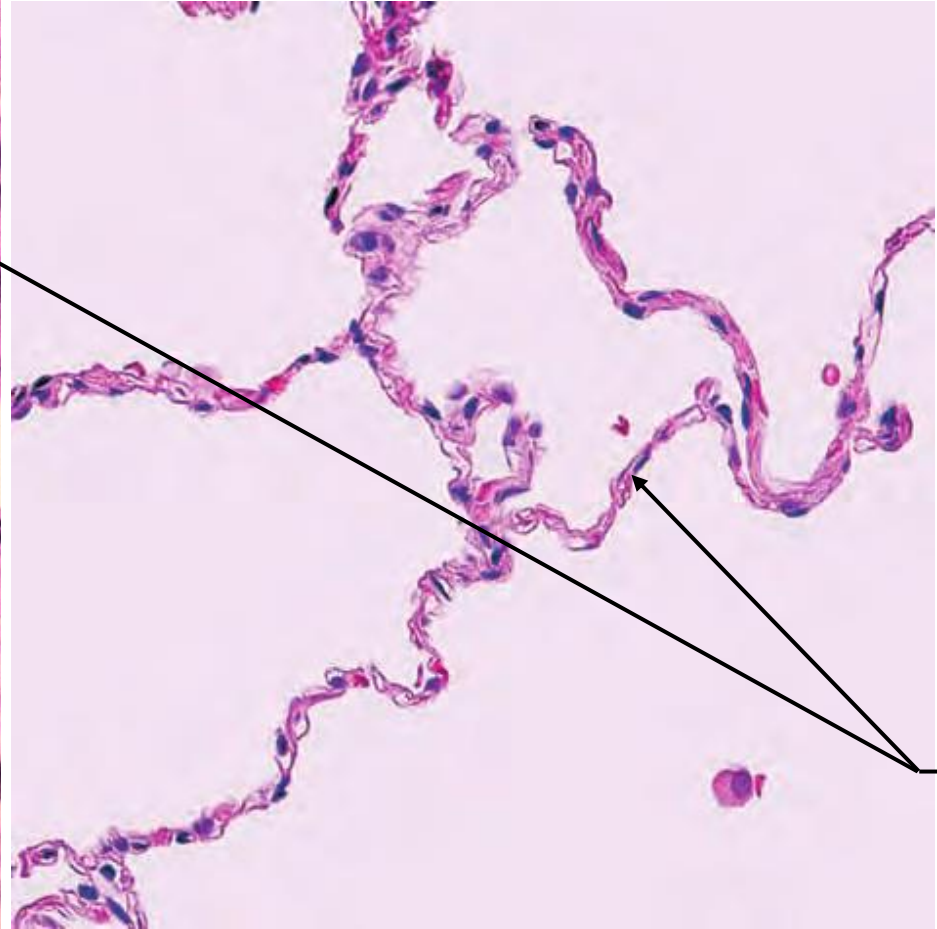
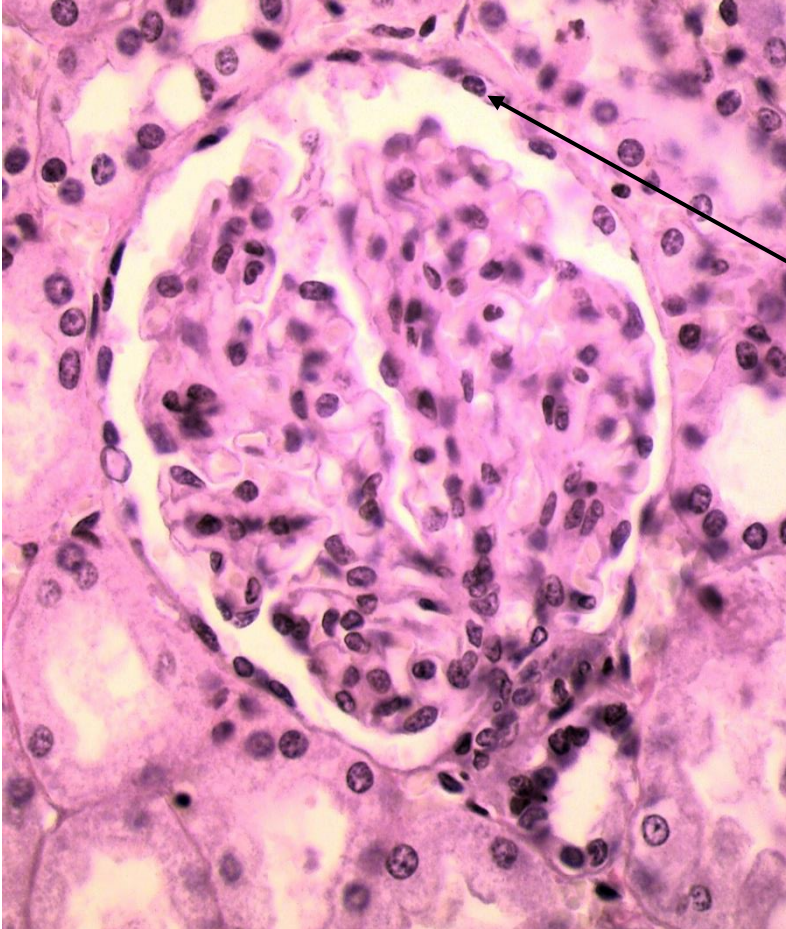
Location: Lung alveoli, kidney glomerulus, capillary walls



Simple
Squamous
Epithelium

Function: _____

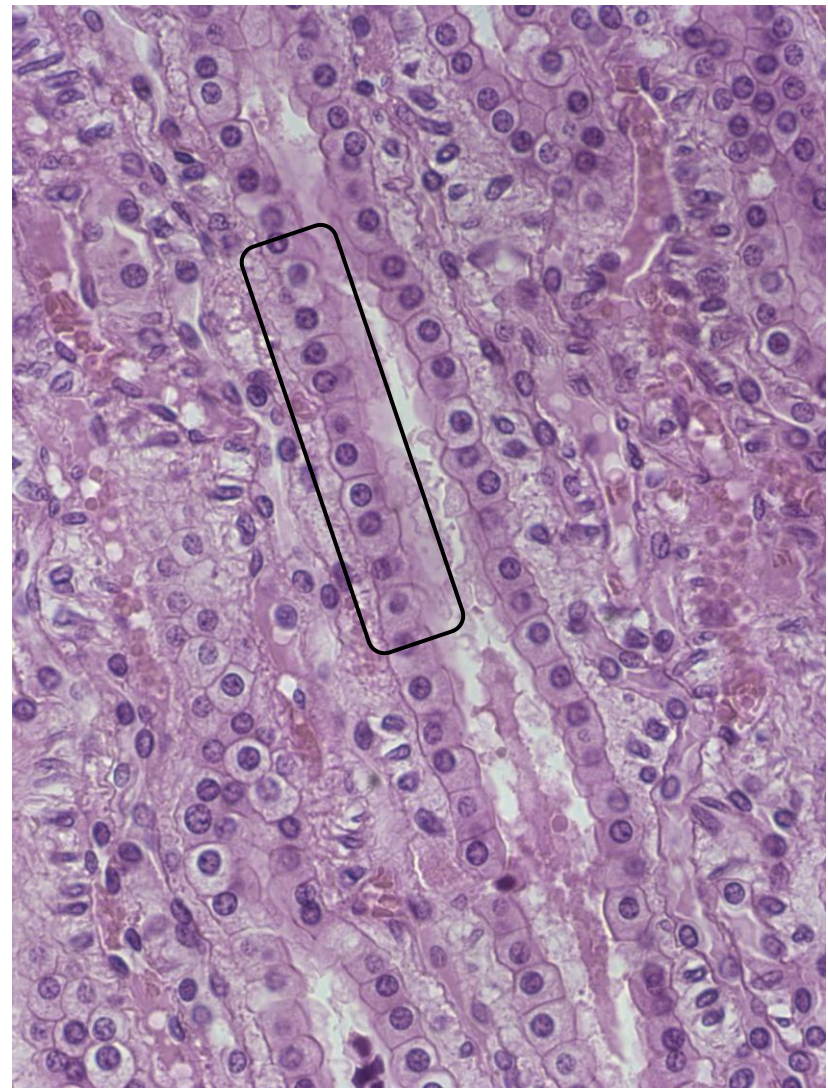
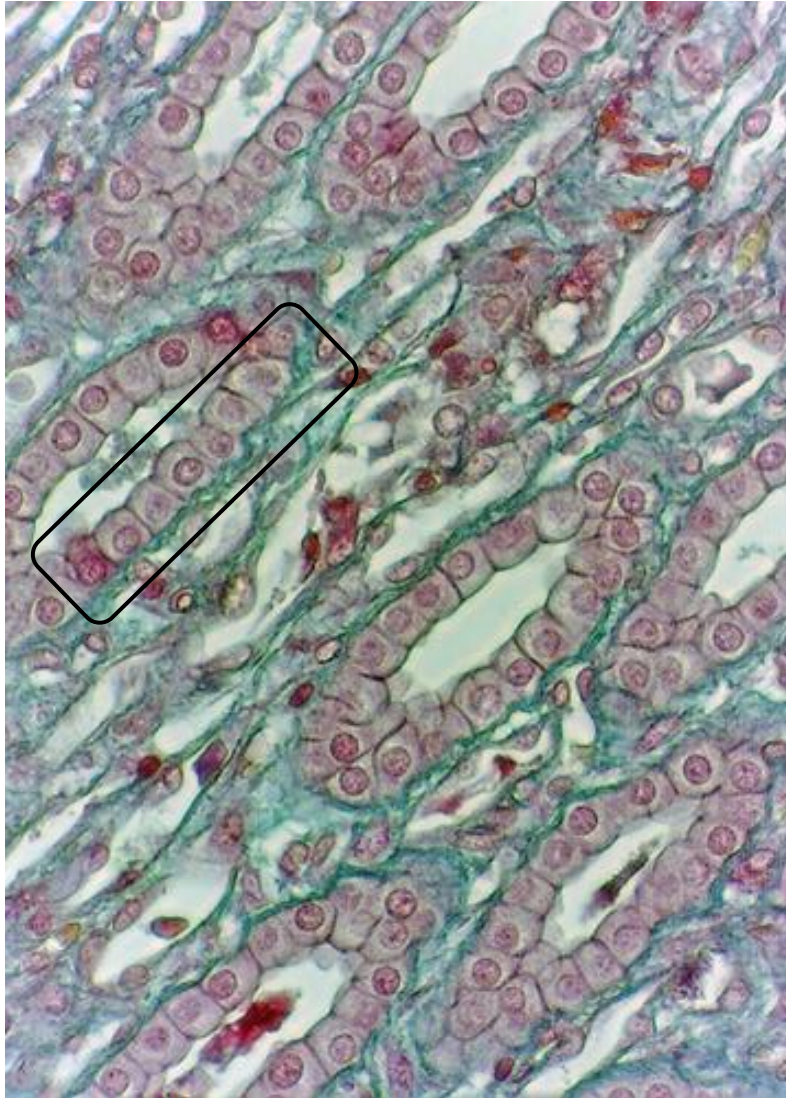
Location: _____



SIMPLE CUBOIDAL EPITHELIUM

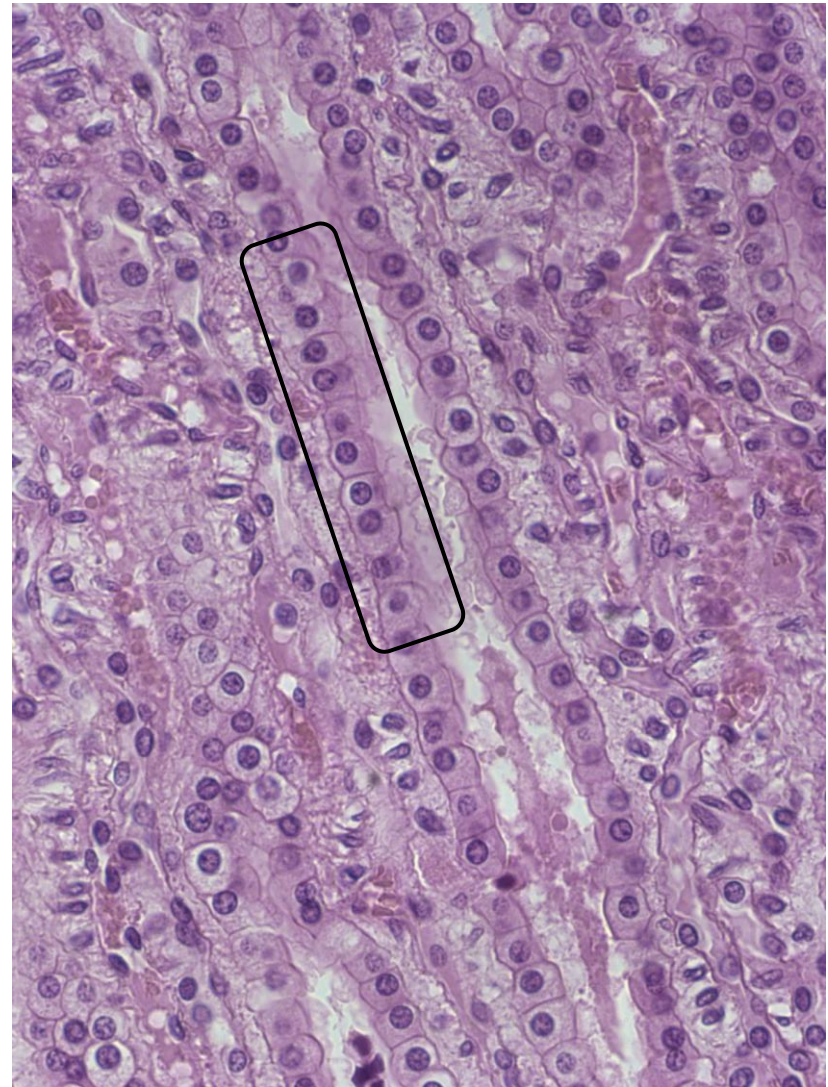
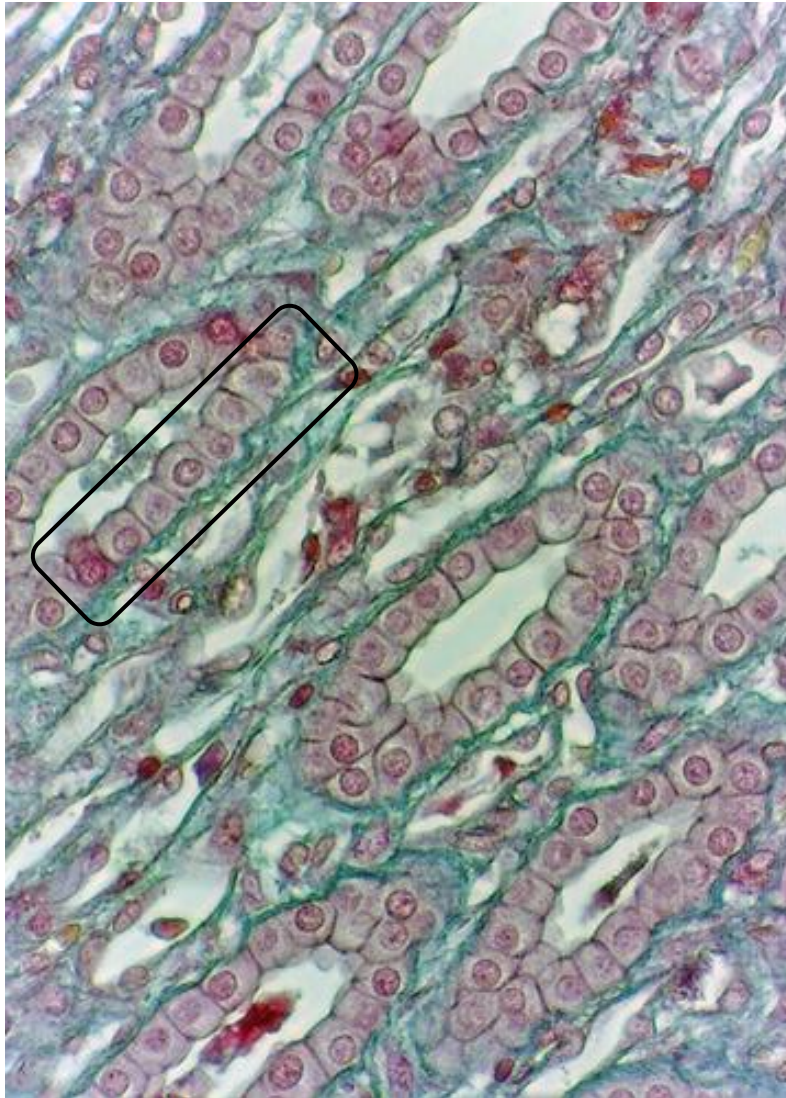
Function: Secretion and some absorption

Location: Any secretory gland, kidney tubules and other ducts



Function: _____

Location: _____



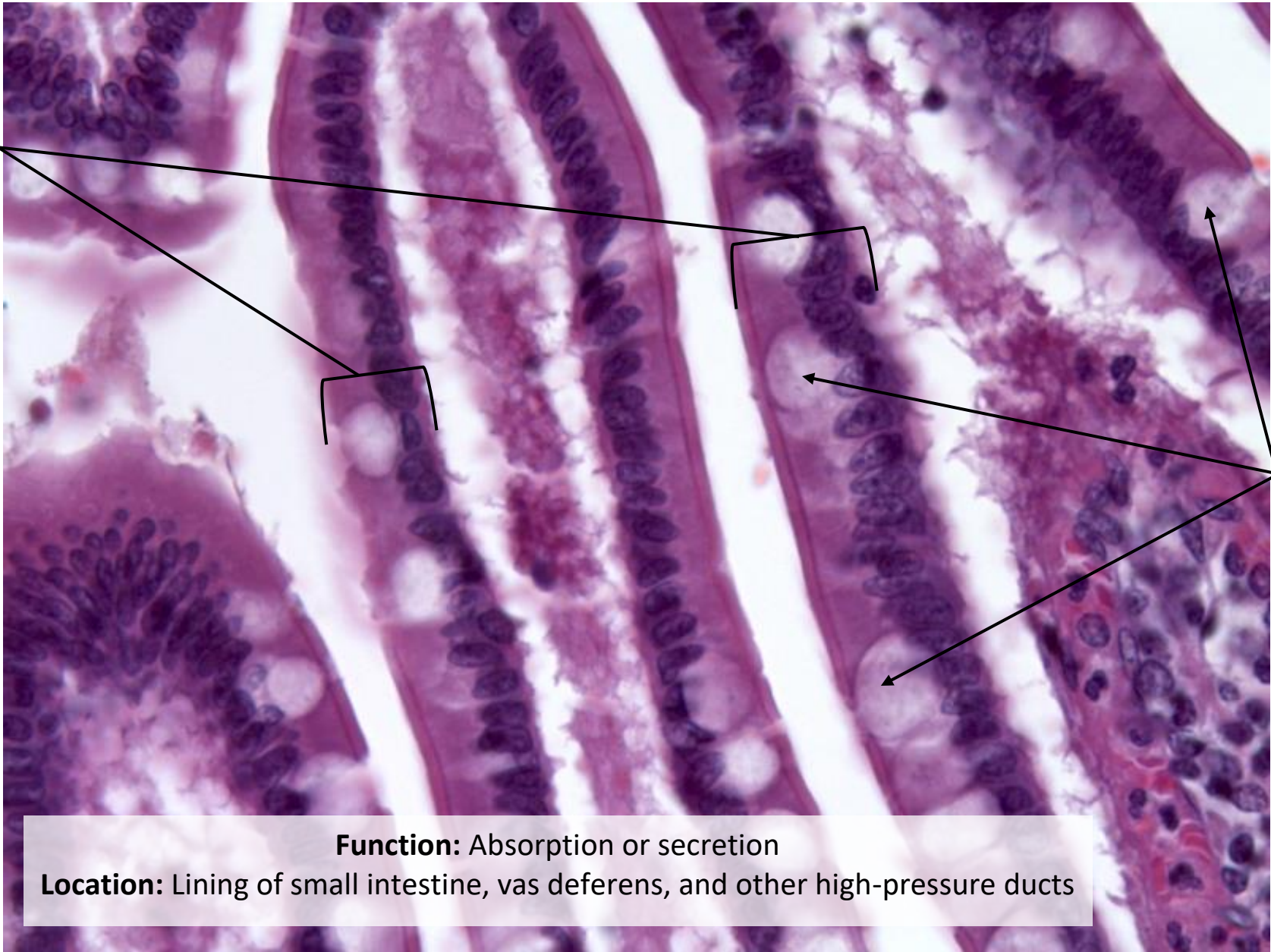
SIMPLE COLUMNAR EPITHELIUM

Simple
Columnar
Epithelium

Goblet
Cells

Function: Absorption or secretion

Location: Lining of small intestine, vas deferens, and other high-pressure ducts

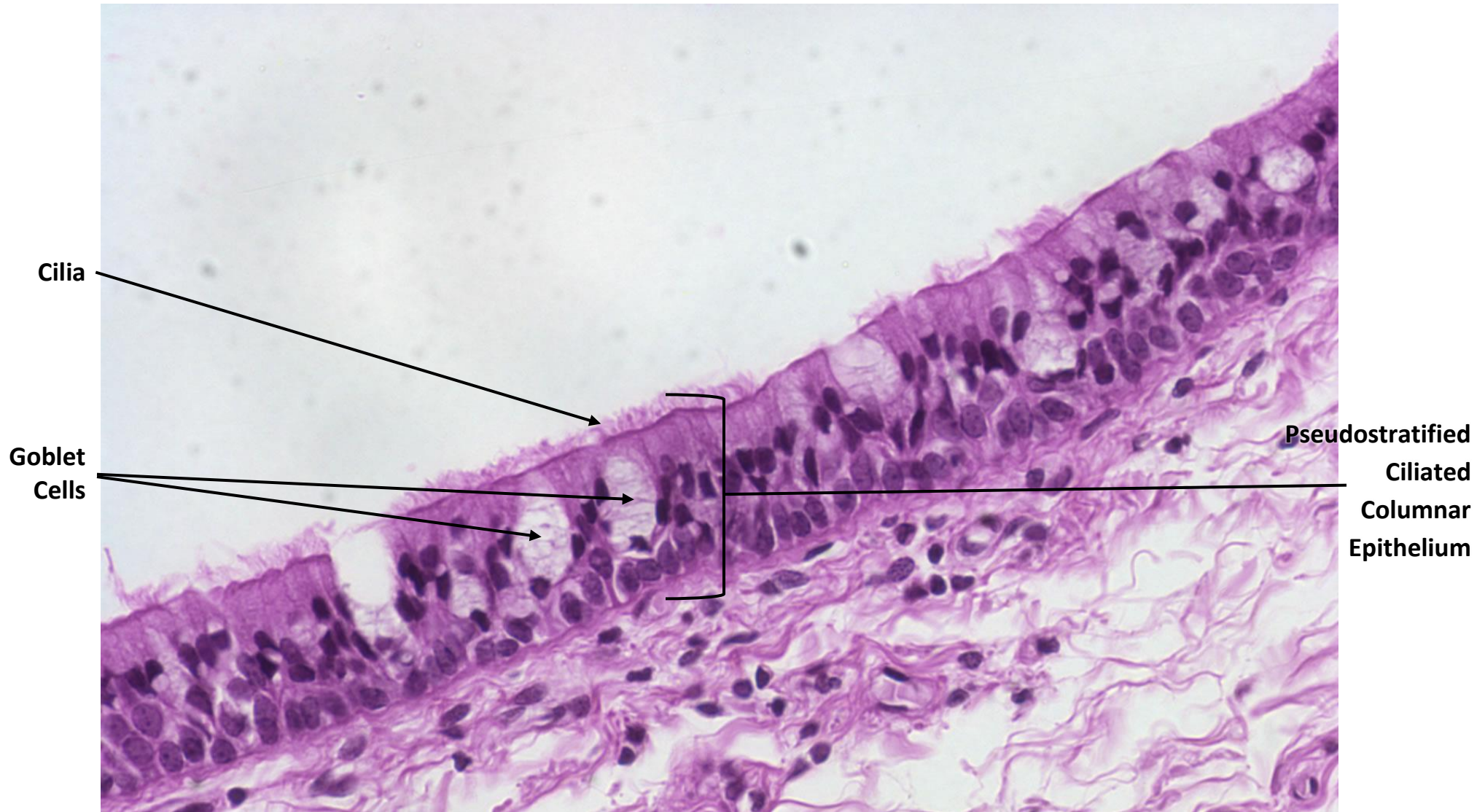




PSEUDOSTRATIFIED CILIATED COLUMNAR EPITHELIUM

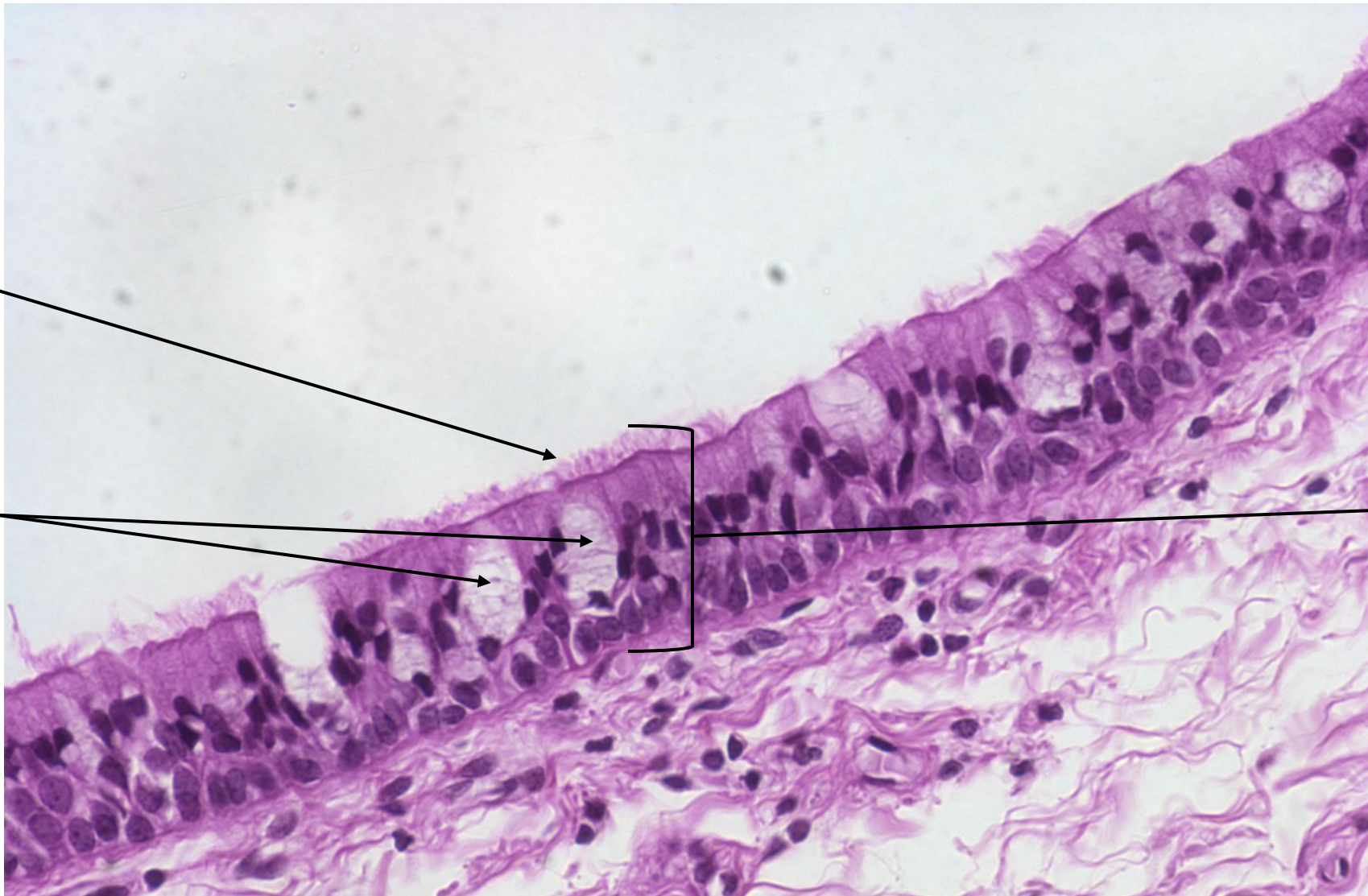
Function: Protection, removal of foreign material

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



Function: _____

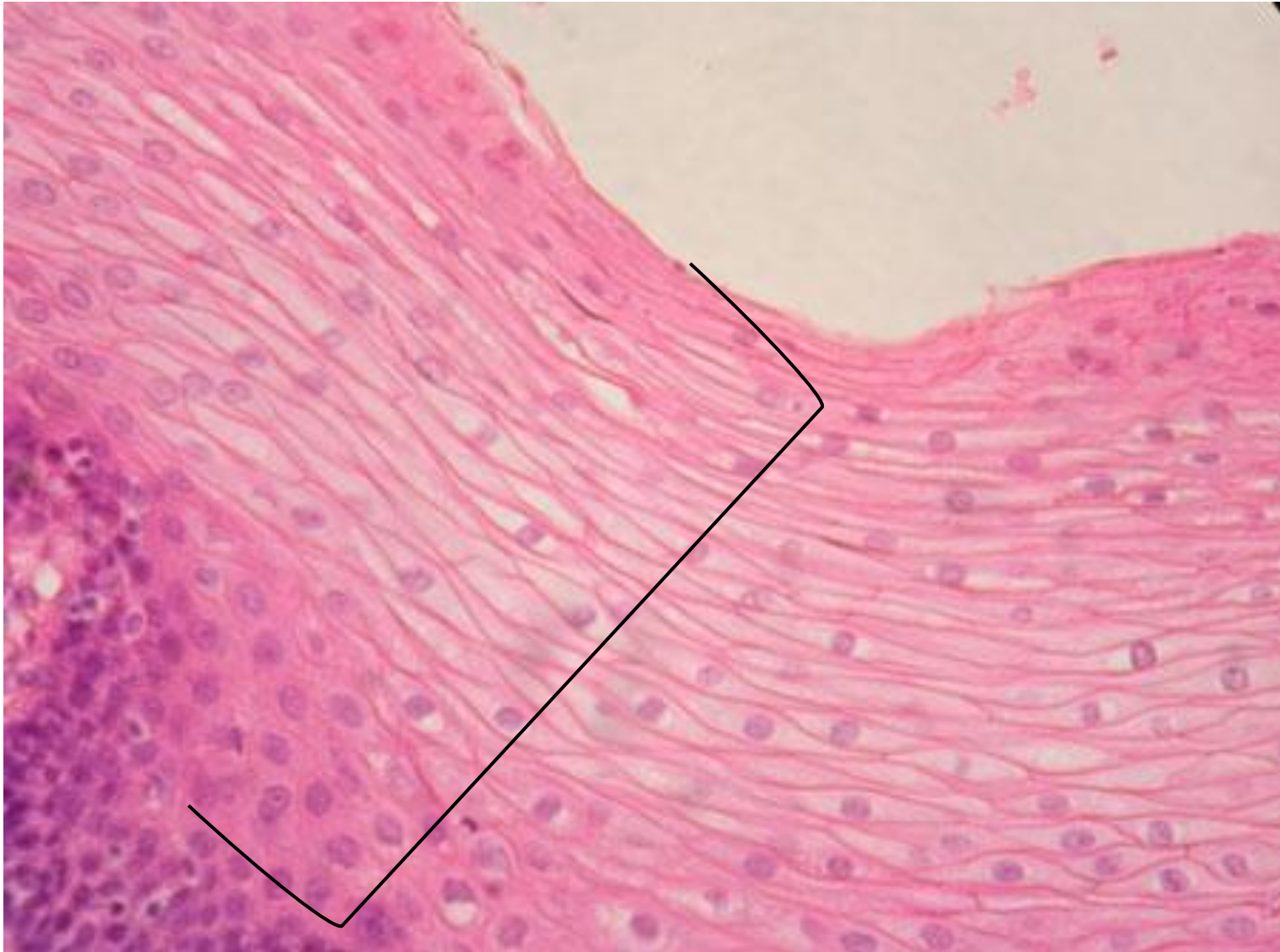
Location: _____



STRATIFIED SQUAMOUS EPITHELIUM

Function: Protection against abrasion

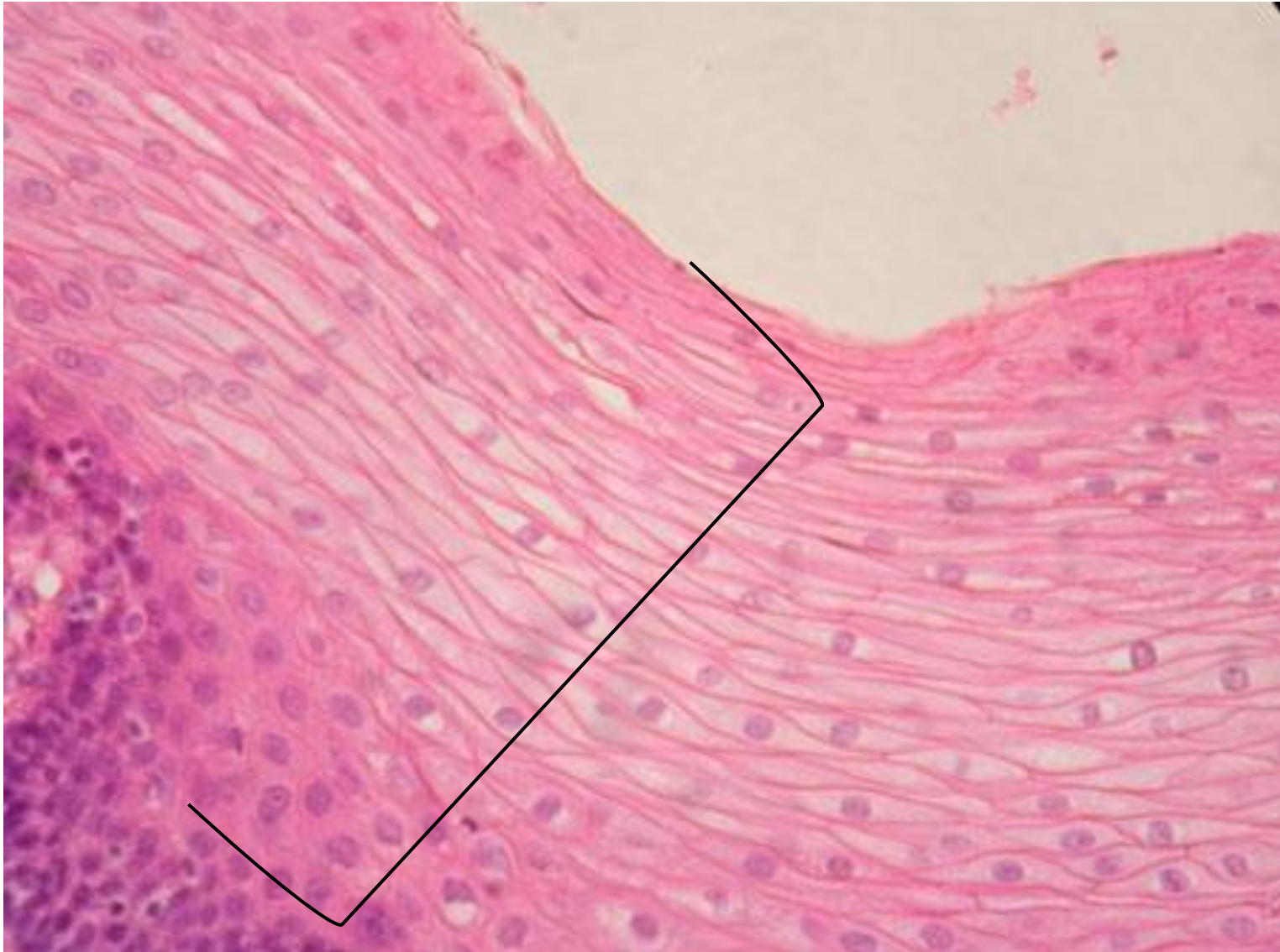
Location: Epidermis, oropharynx, anal canal



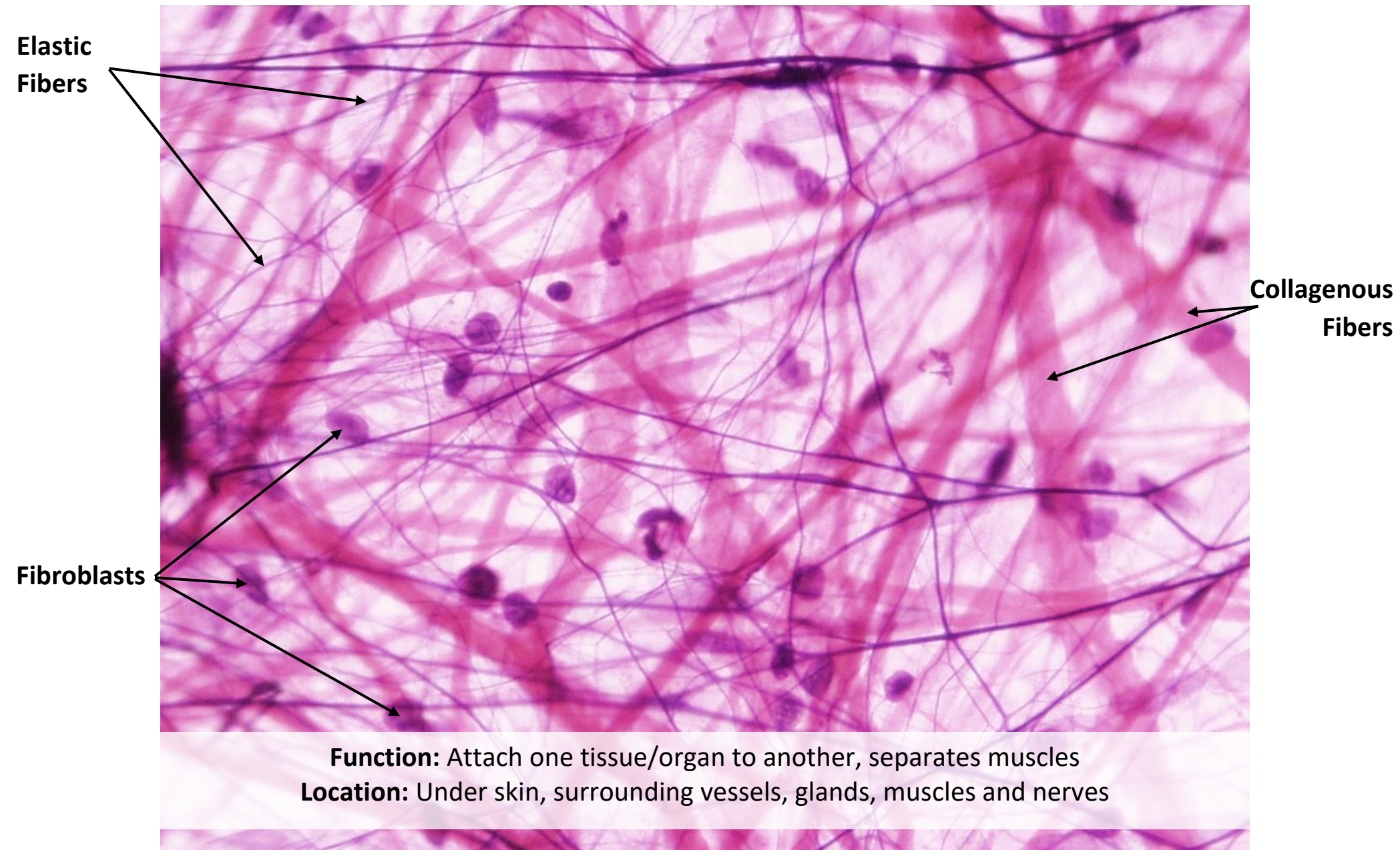
STRATIFIED SQUAMOUS EPITHELIUM

Function: _____

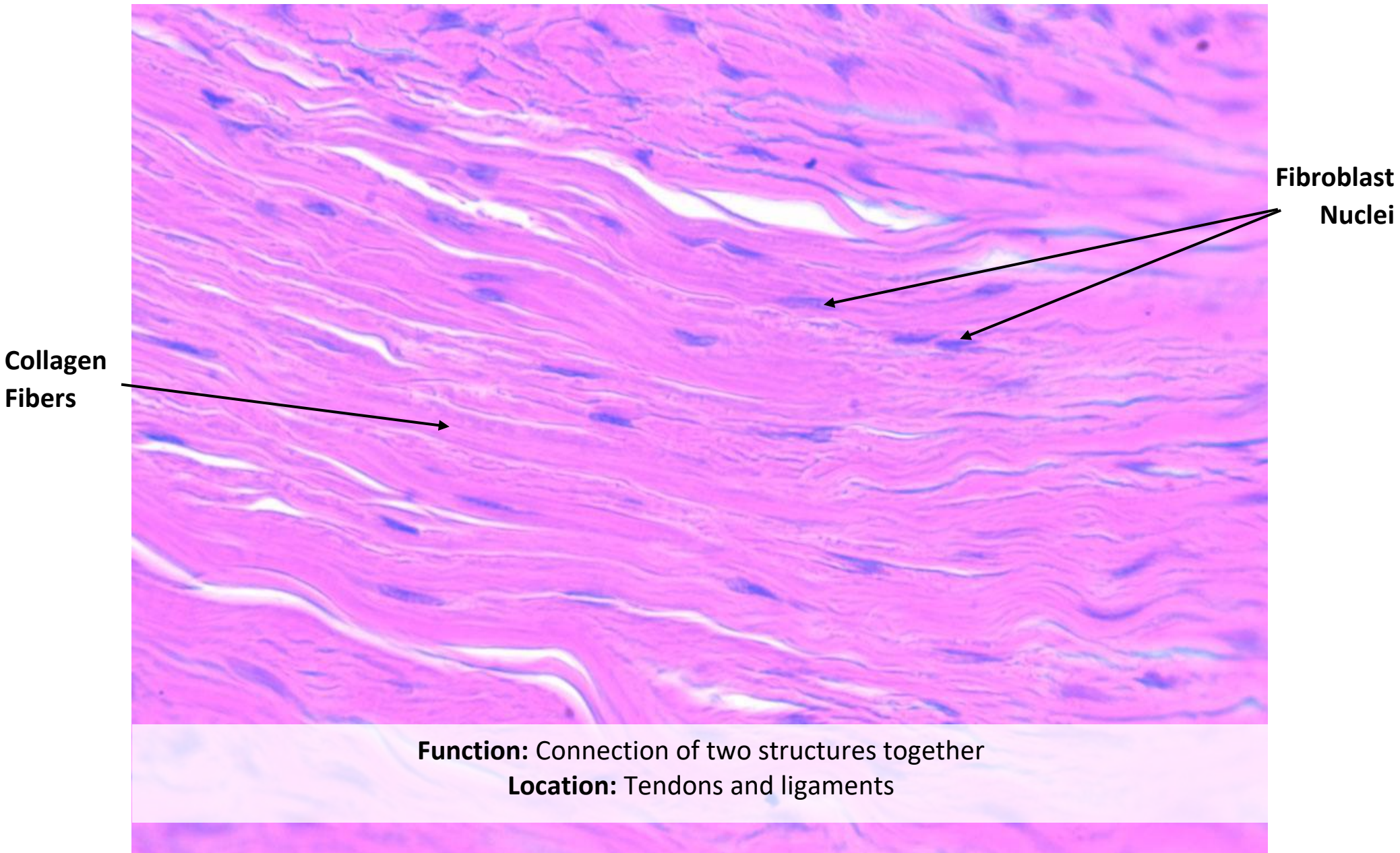
Location: _____



AREOLAR CONNECTIVE TISSUE



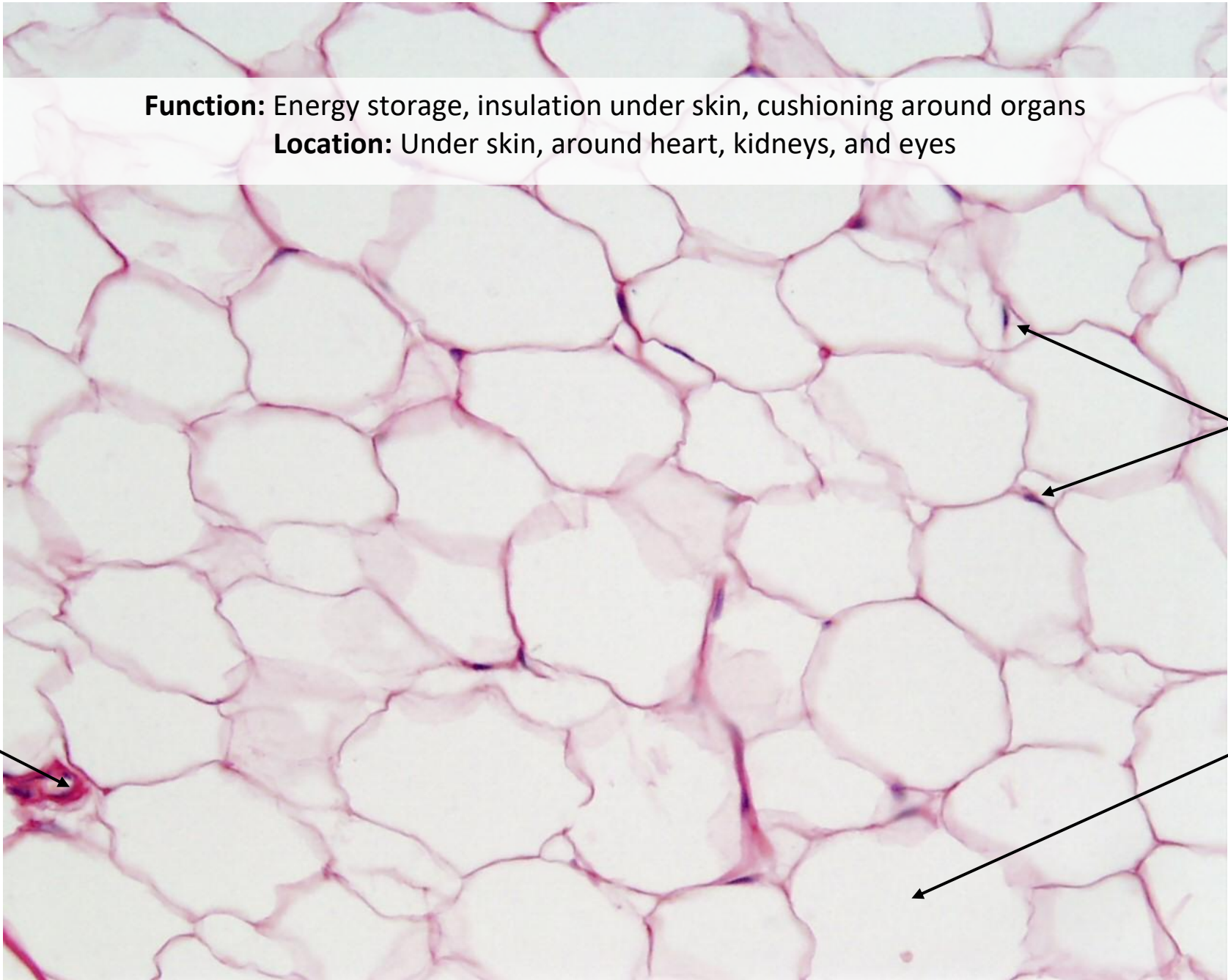
DENSE REGULAR CONNECTIVE TISSUE



ADIPOSE TISSUE

Function: Energy storage, insulation under skin, cushioning around organs

Location: Under skin, around heart, kidneys, and eyes

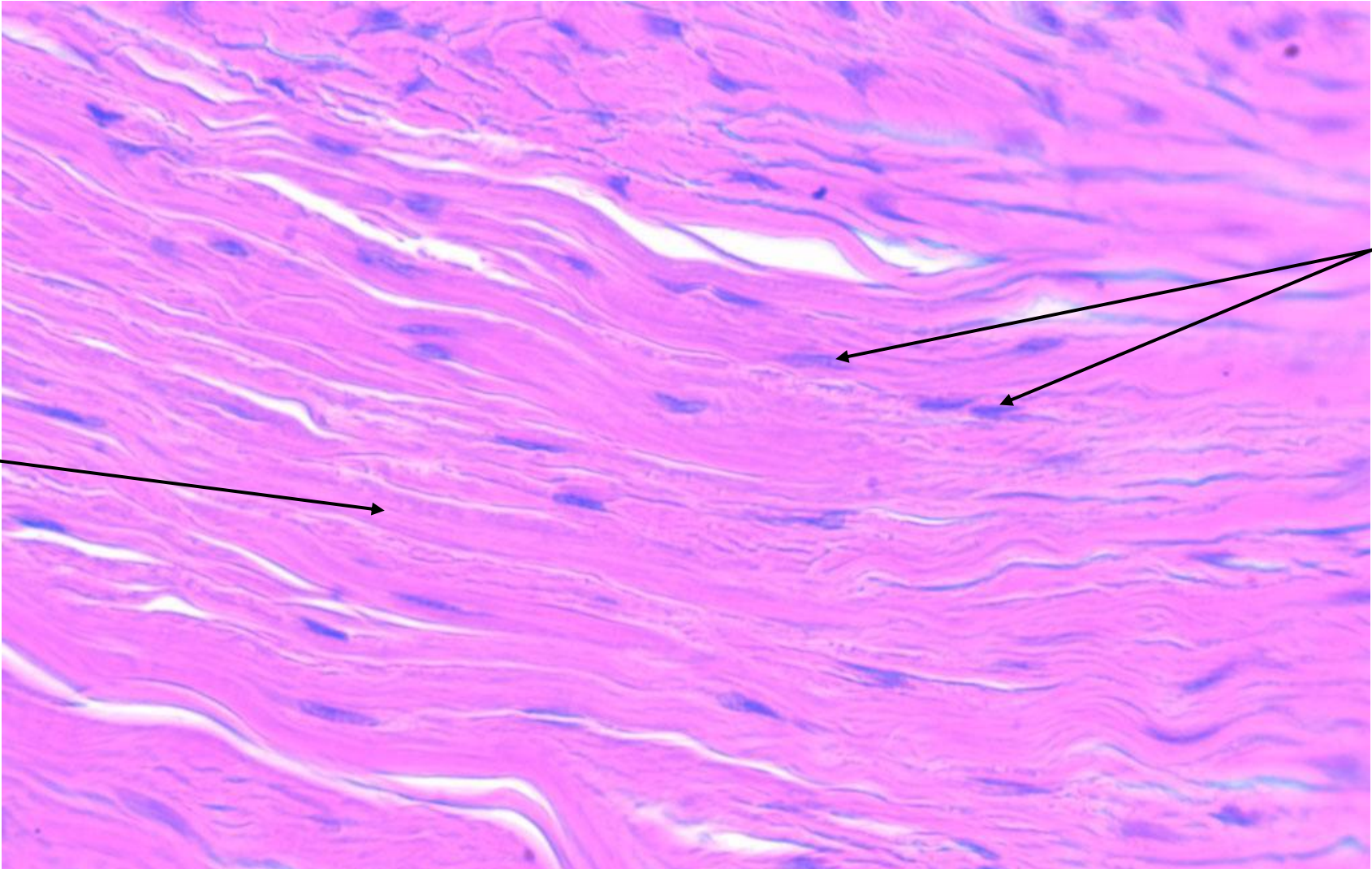


Adipocyte
Nucleus

Lipid
within
Adipocyte

Blood
Vessel





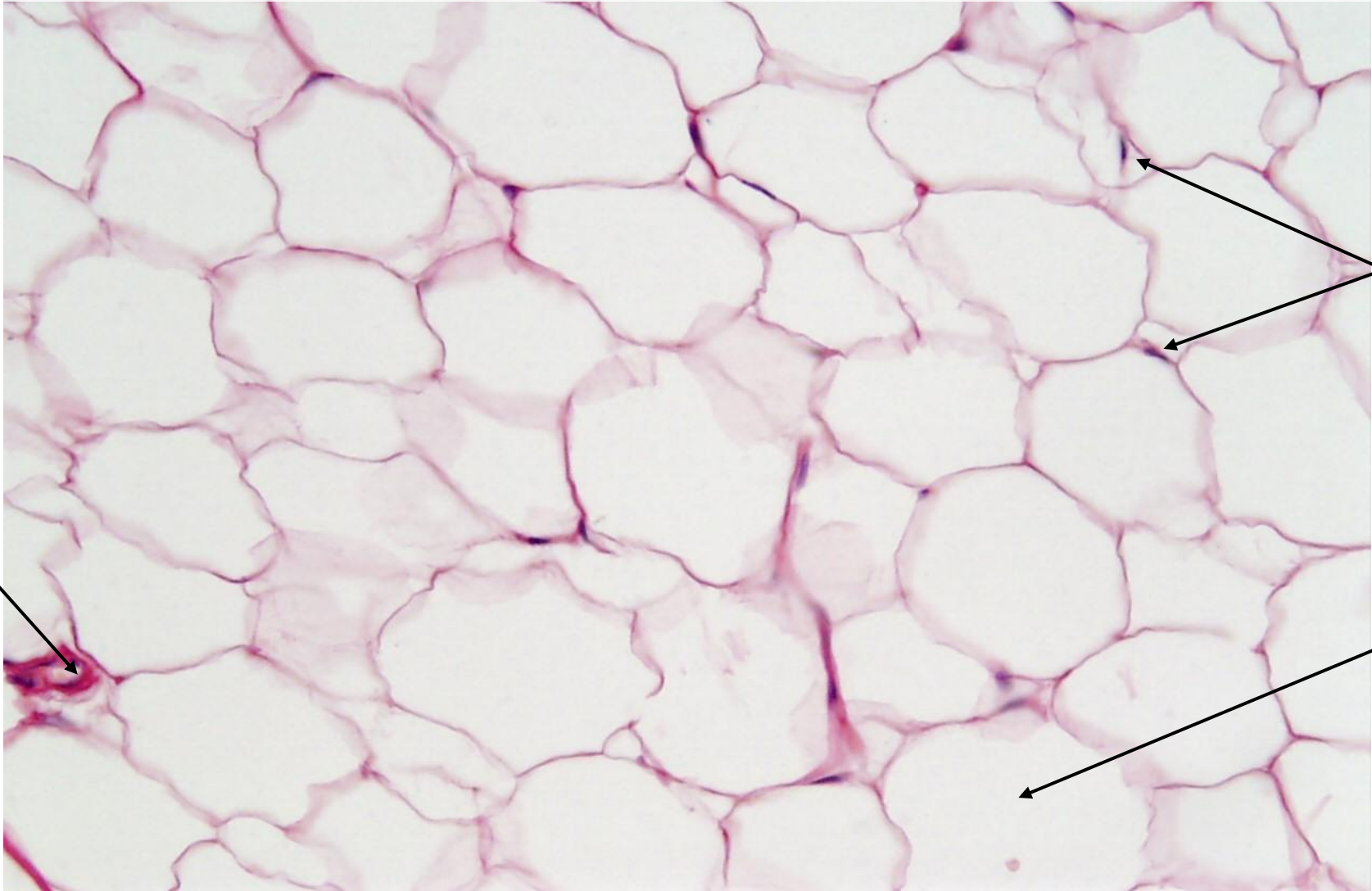
Function: _____

Location: _____ , _____



Function: _____ , _____ , _____

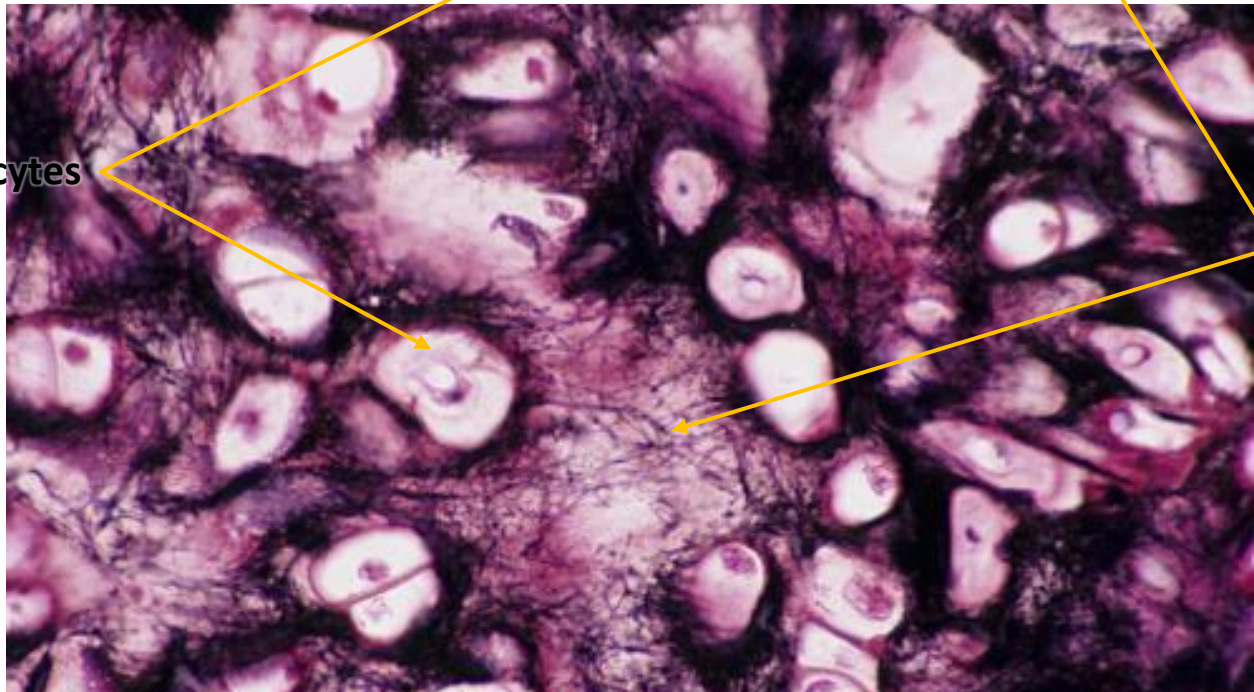
Location: _____ , _____ , _____ , _____



ELASTIC CARTILAGE



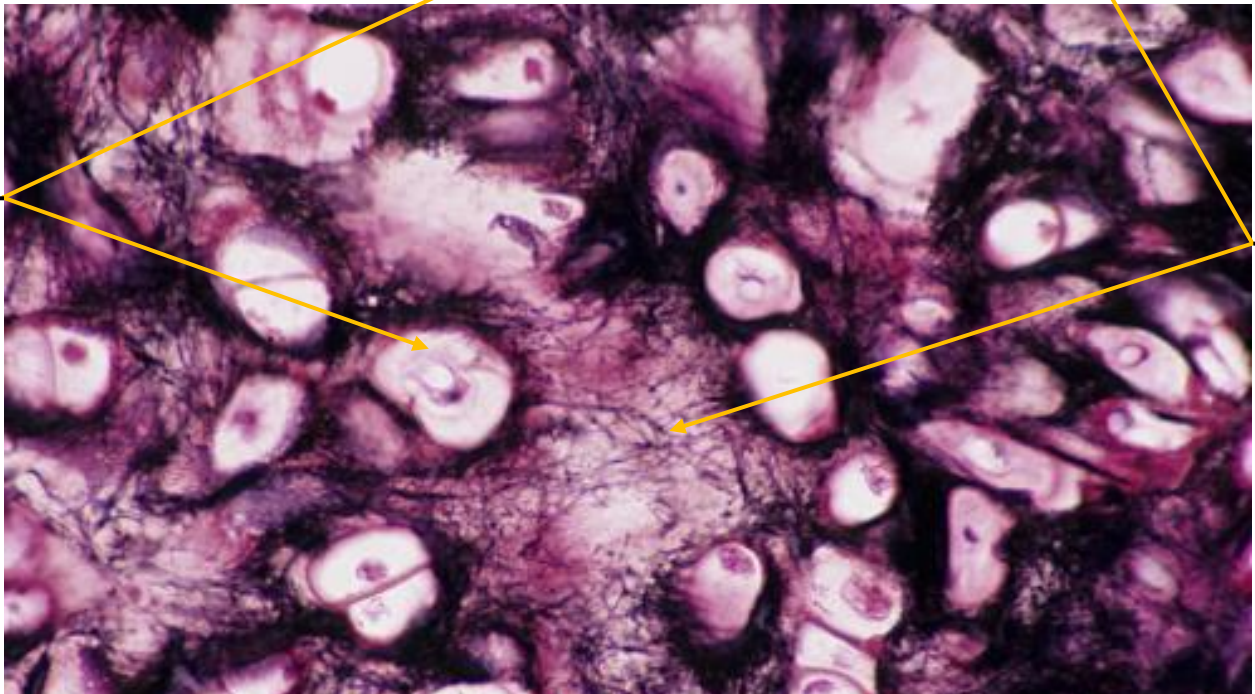
Perichondrium



Lacunae
With
Chondrocytes

Elastic
Fibers

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



Function: _____

Location: _____ , _____ , _____