

Practical Sections for Final Histology Exam

First-year medical students

Epithelium



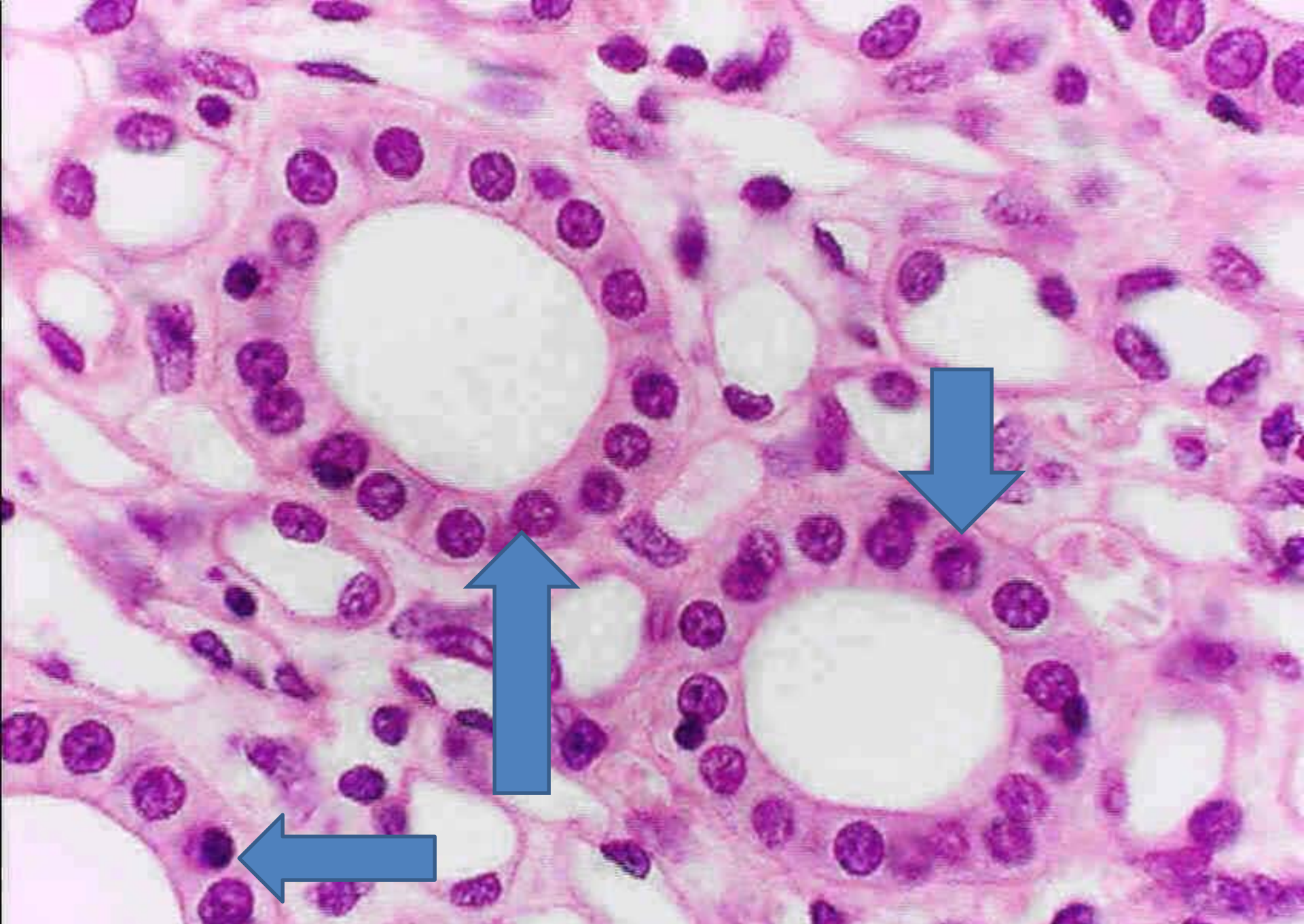
Endothelium

Simple squamous epithelium



Mesothelium

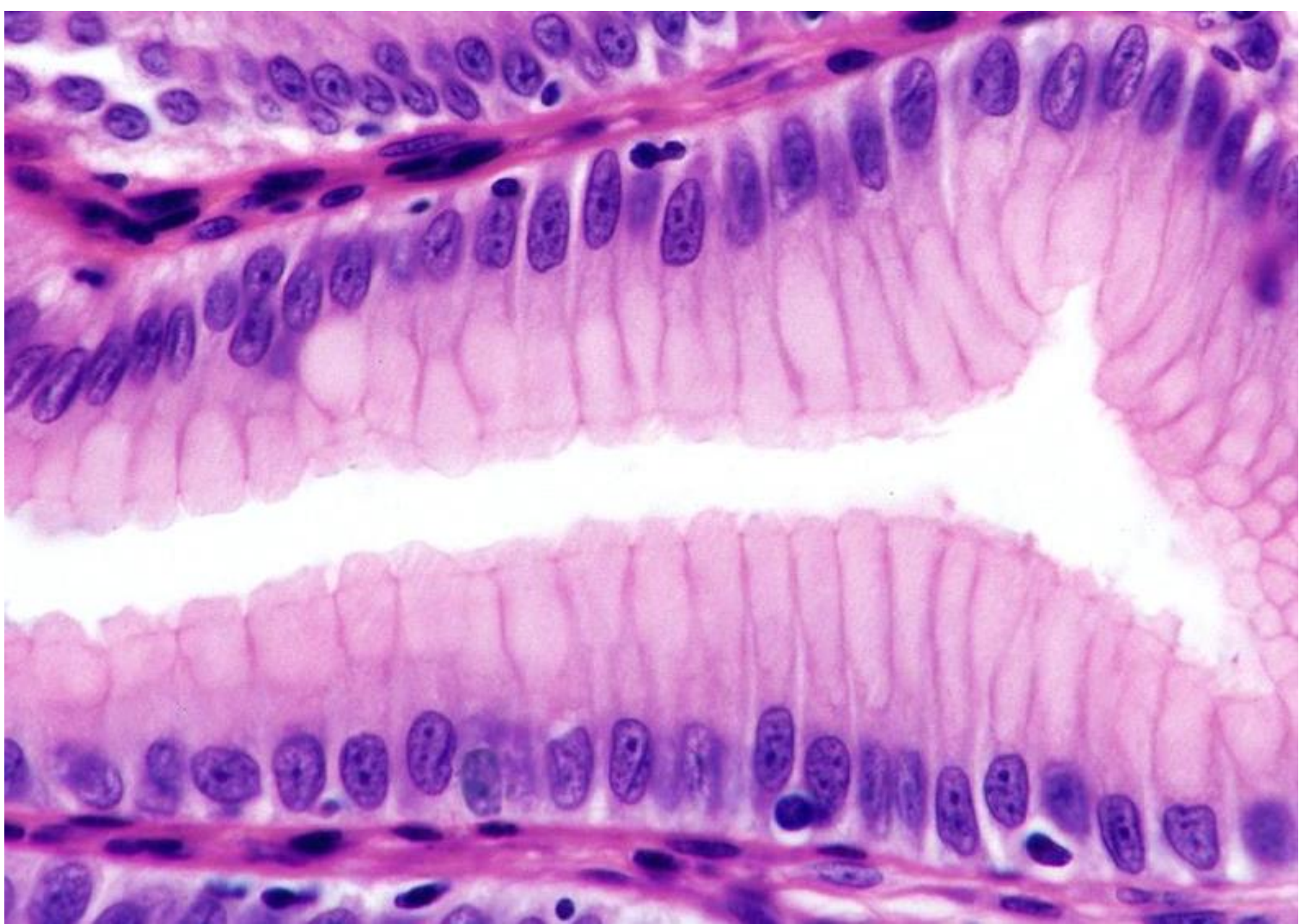
Simple squamous epithelium



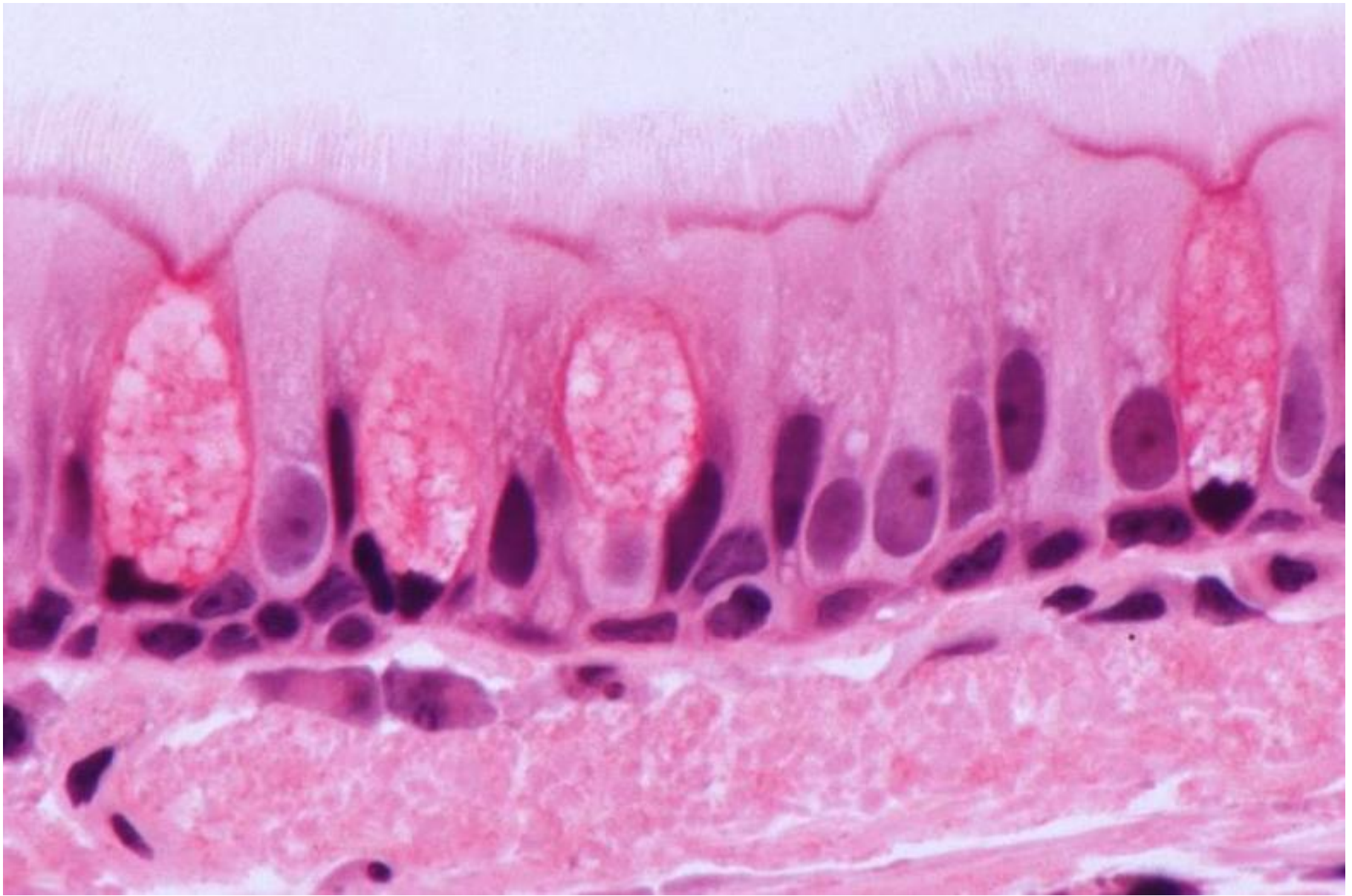
Simple cuboidal epithelium



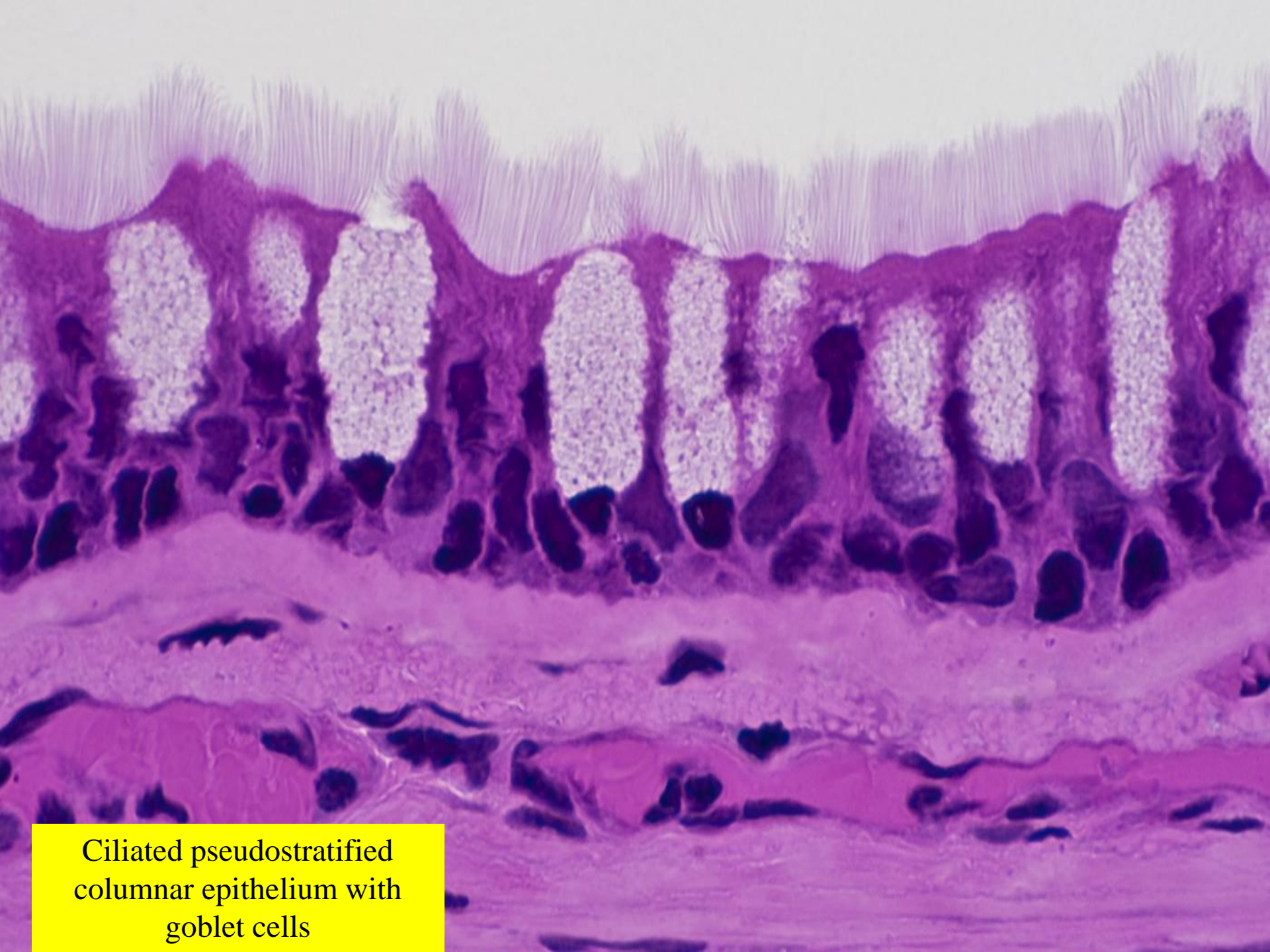
Simple columnar epithelium
with microvilli



Simple columnar epithelium
with microvilli

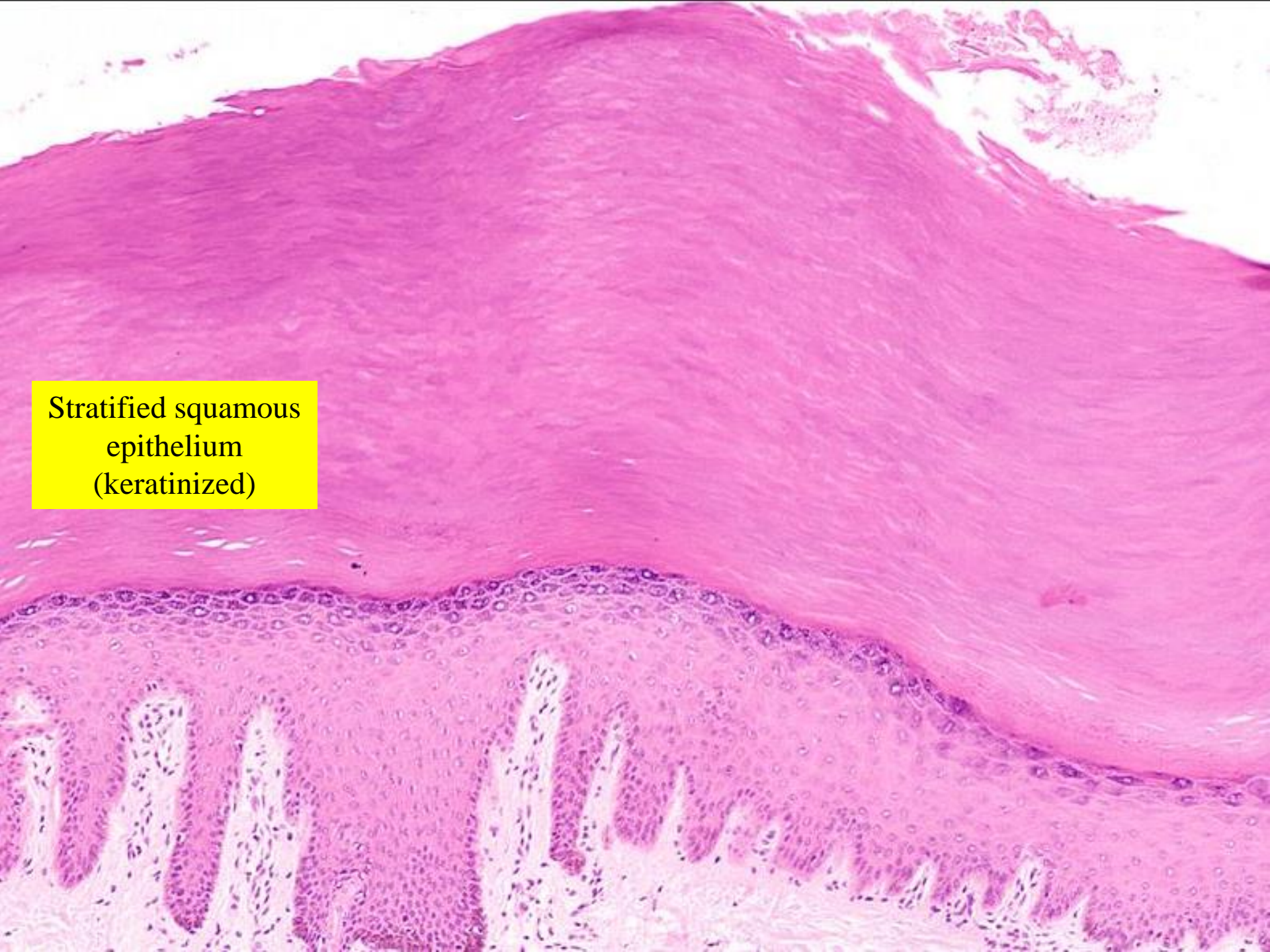


Ciliated pseudostratified columnar epithelium with goblet cells



Ciliated pseudostratified columnar epithelium with goblet cells

Stratified squamous
epithelium
(keratinized)



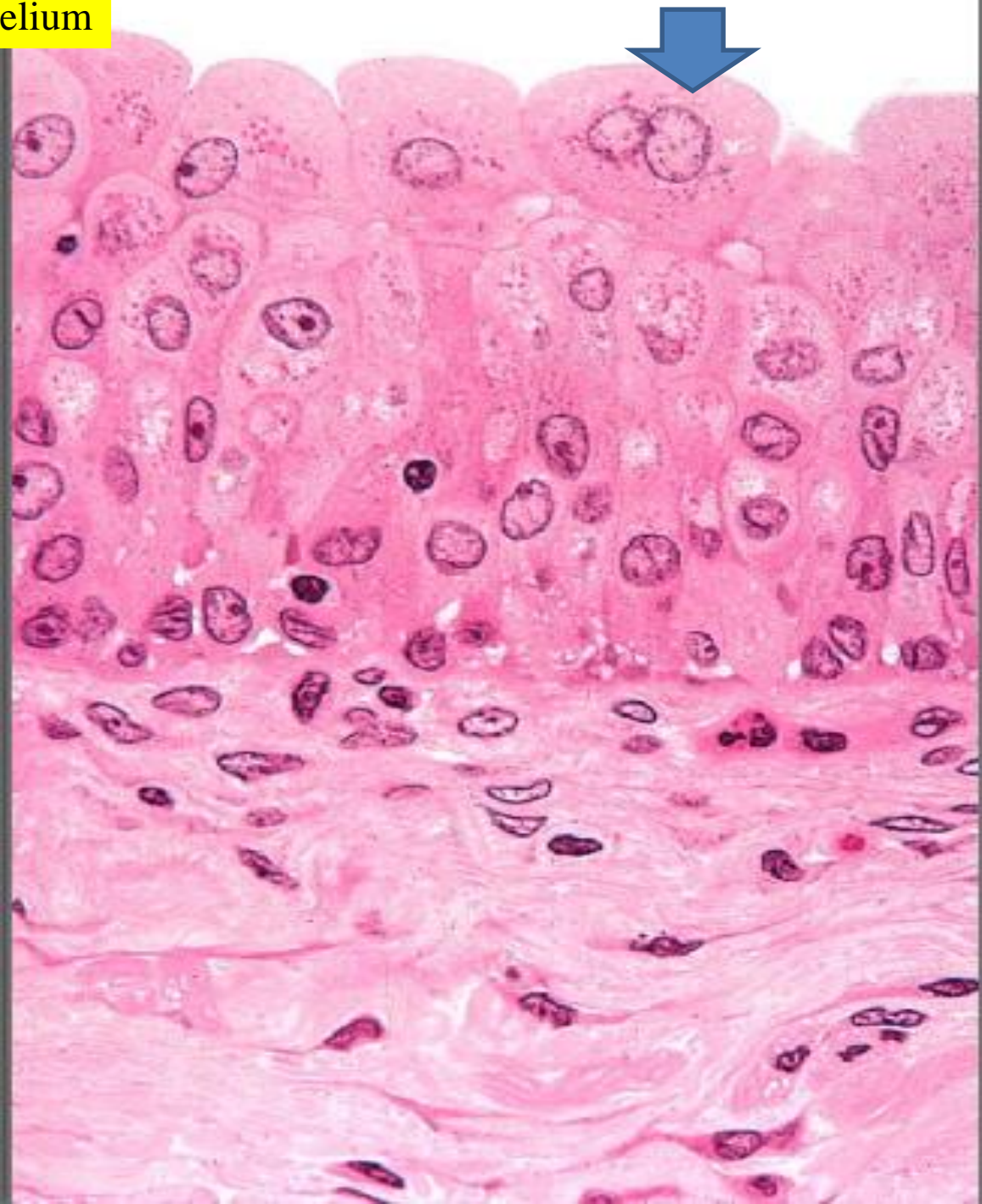
Stratified squamous
epithelium (non
keratinized)



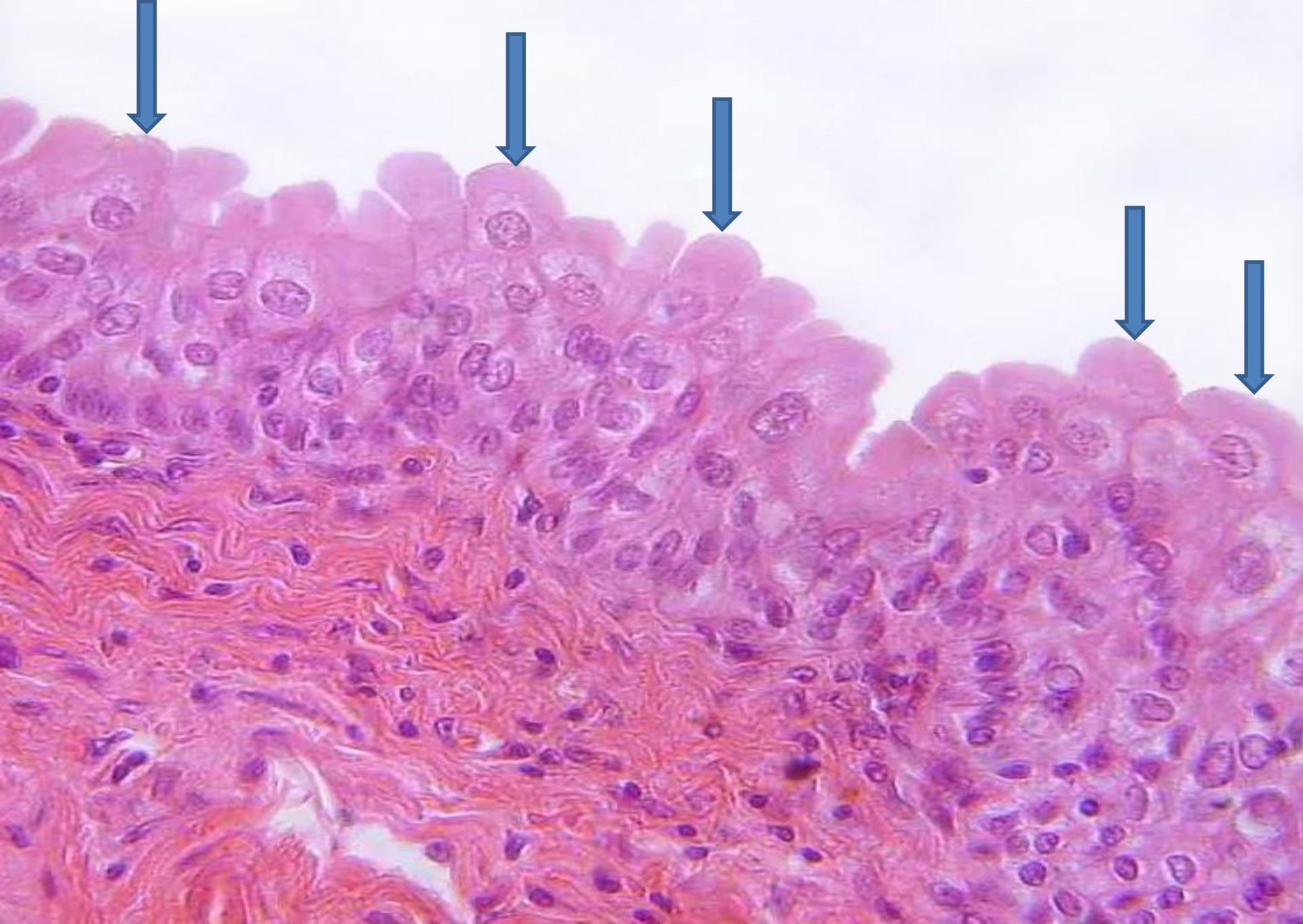
Stratified cuboidal epithelium



Transitional epithelium

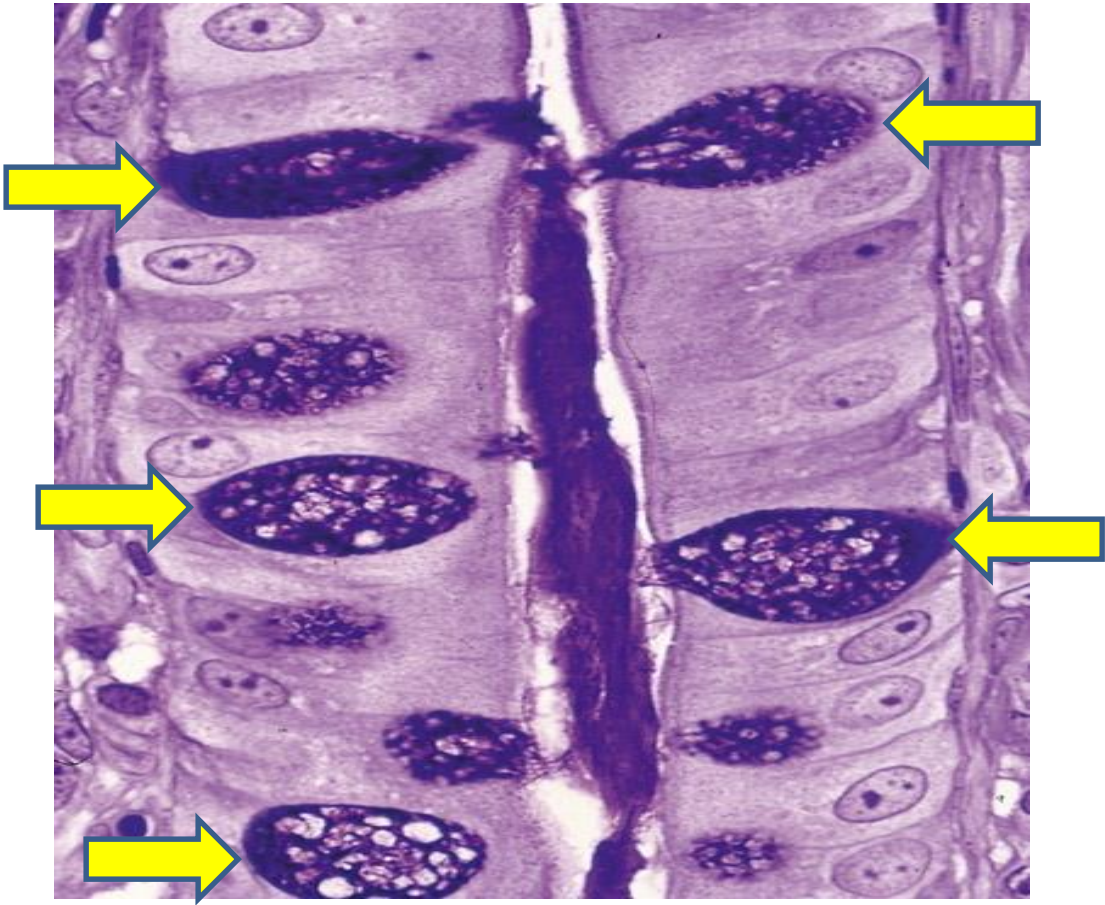


Transitional epithelium

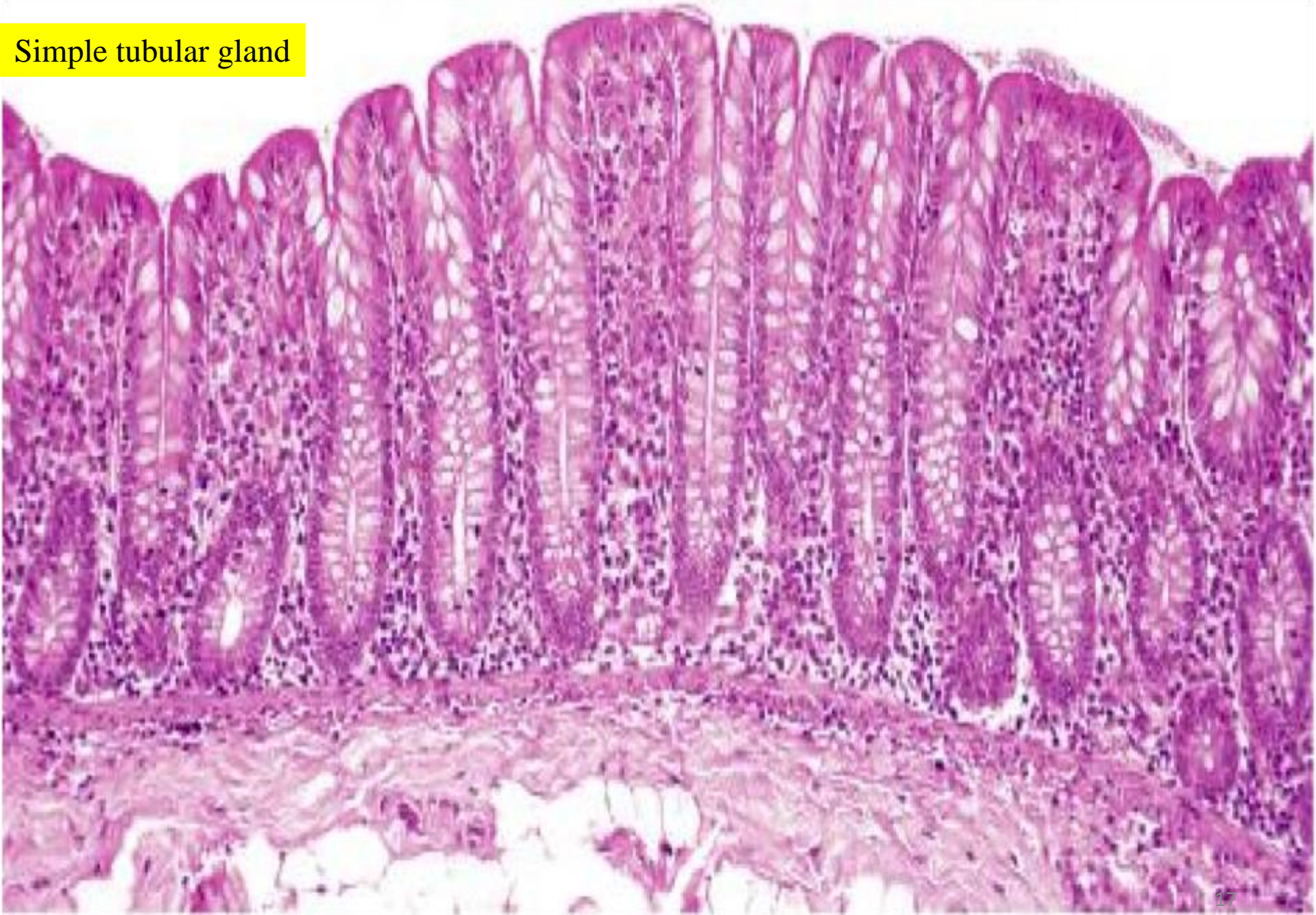


Glands

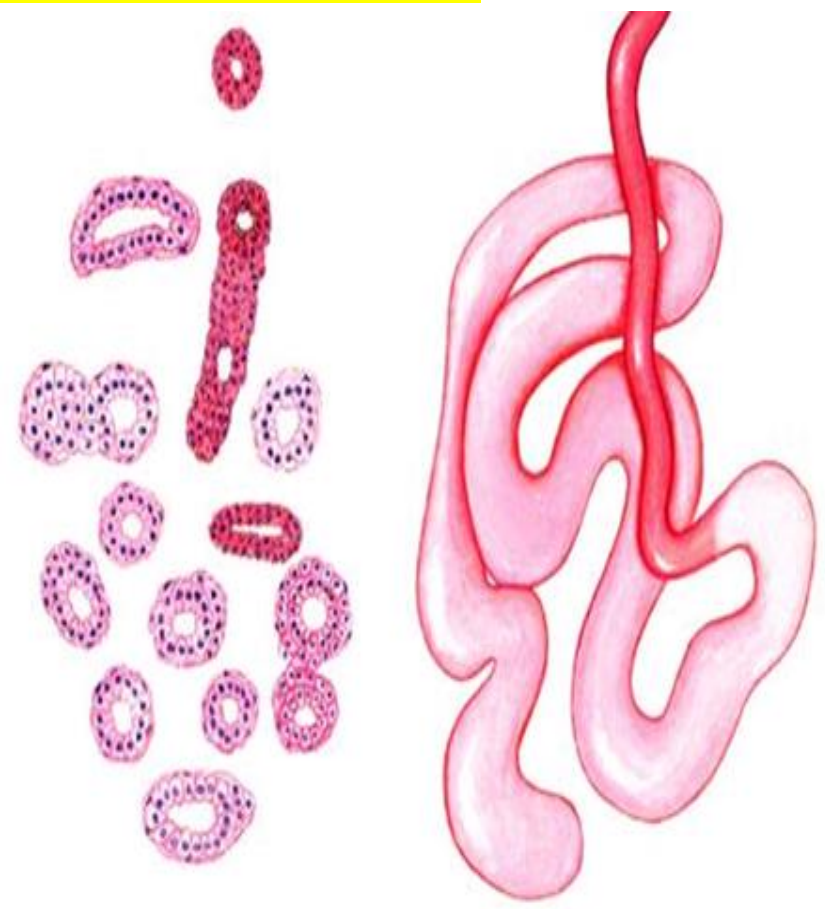
Goblet cells



Simple tubular gland



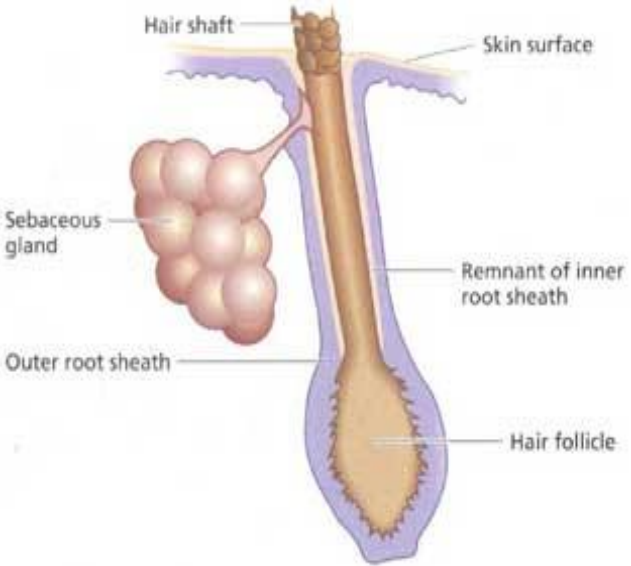
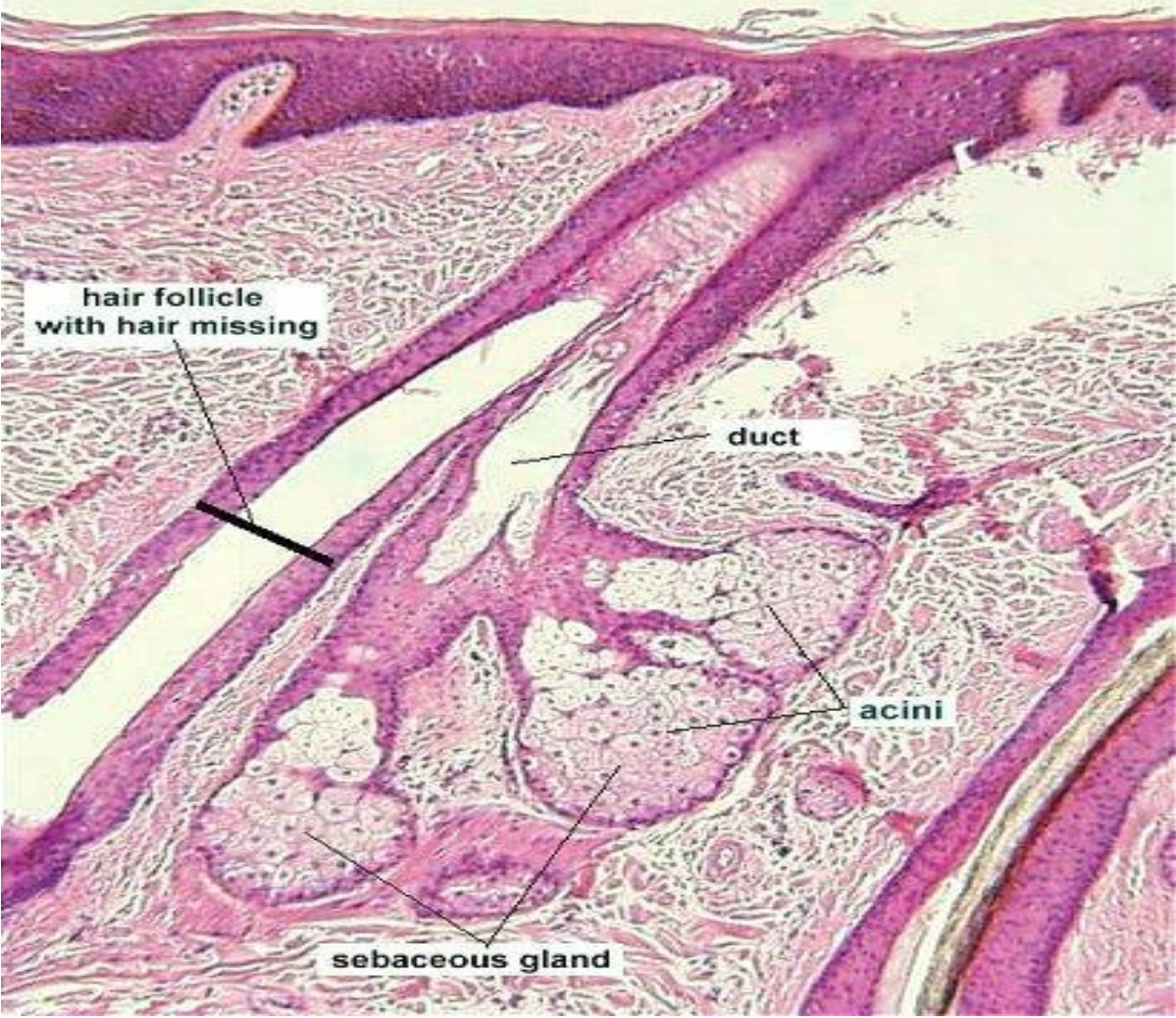
Sweat gland
(simple coiled tubular)



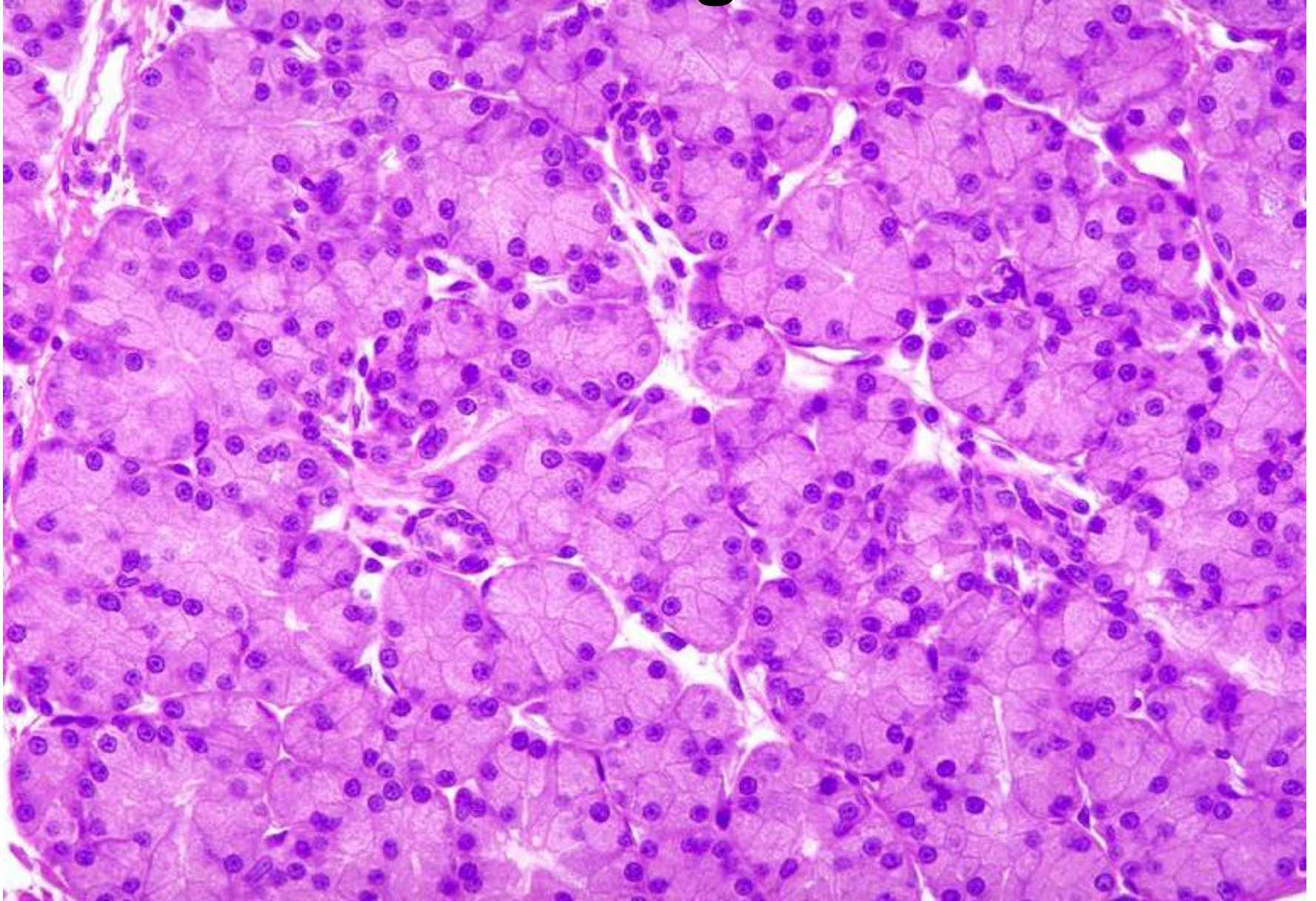
Simple branched tubular gland



Sebaceous gland
(simple branched acinar)



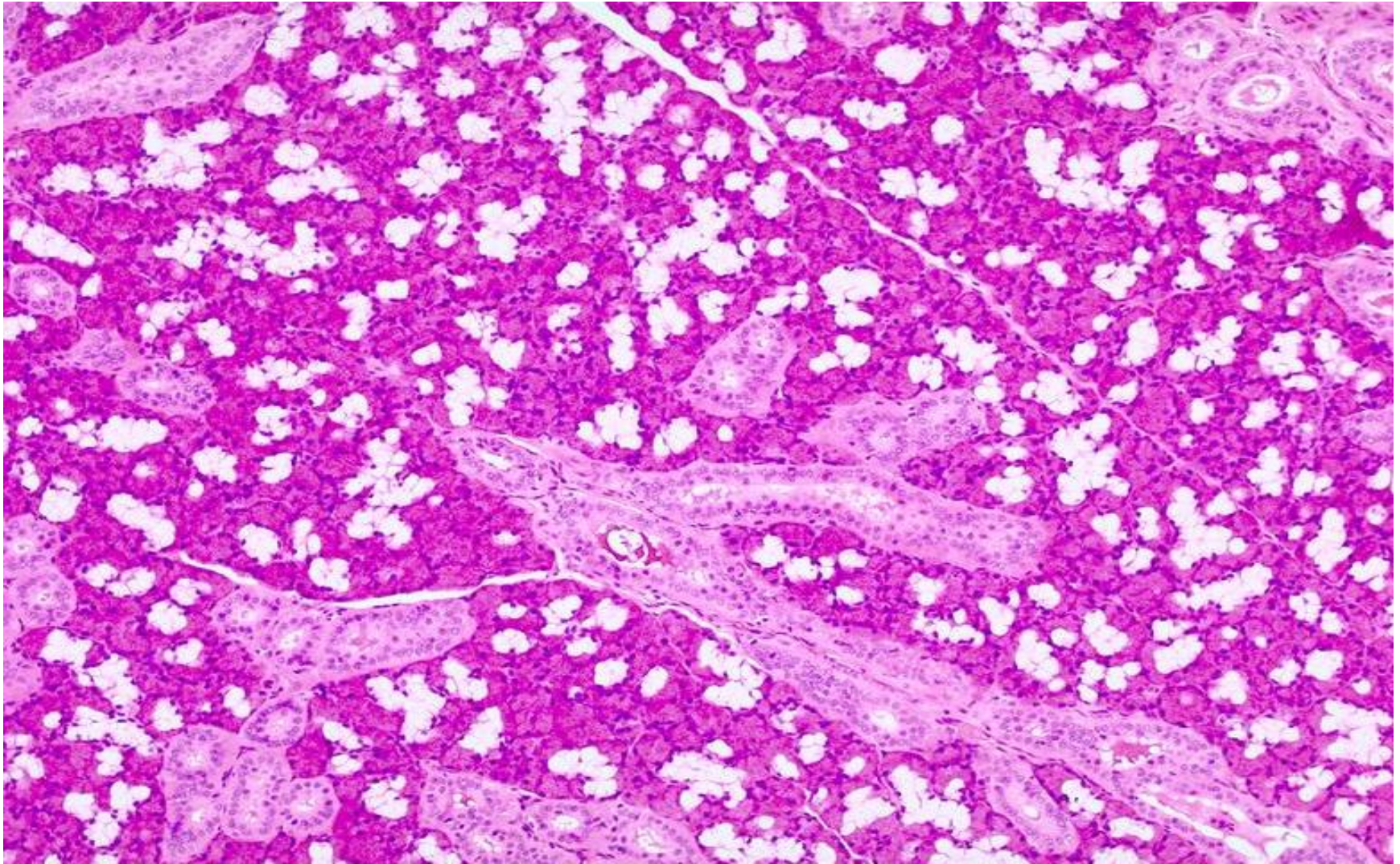
Serous gland



Compound acinar

Parotid gland

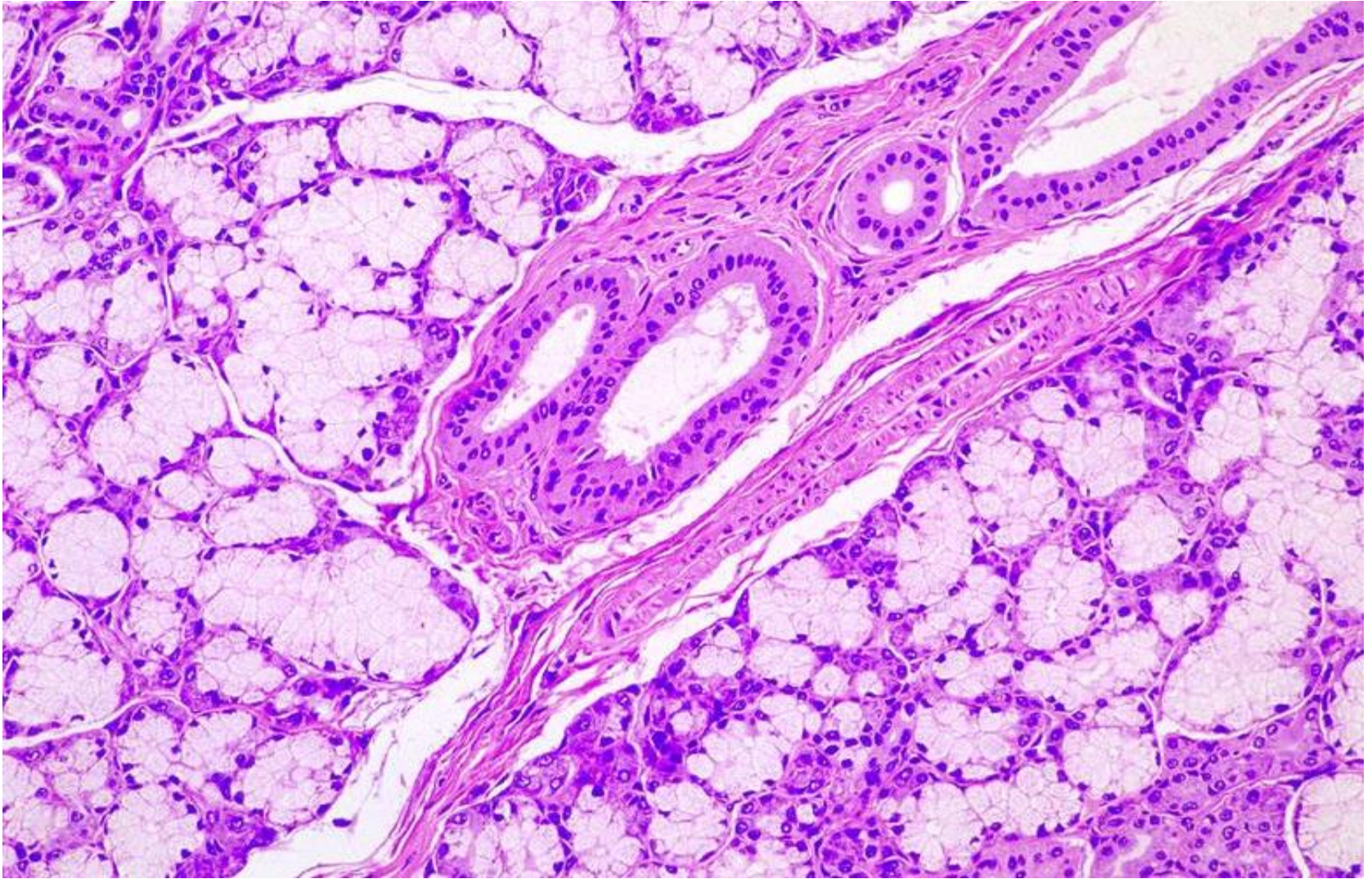
Mixed gland: Seromucous gland



Compound tubulo-acinar

Submandibular gland

Mixed gland: Mucoserous gland

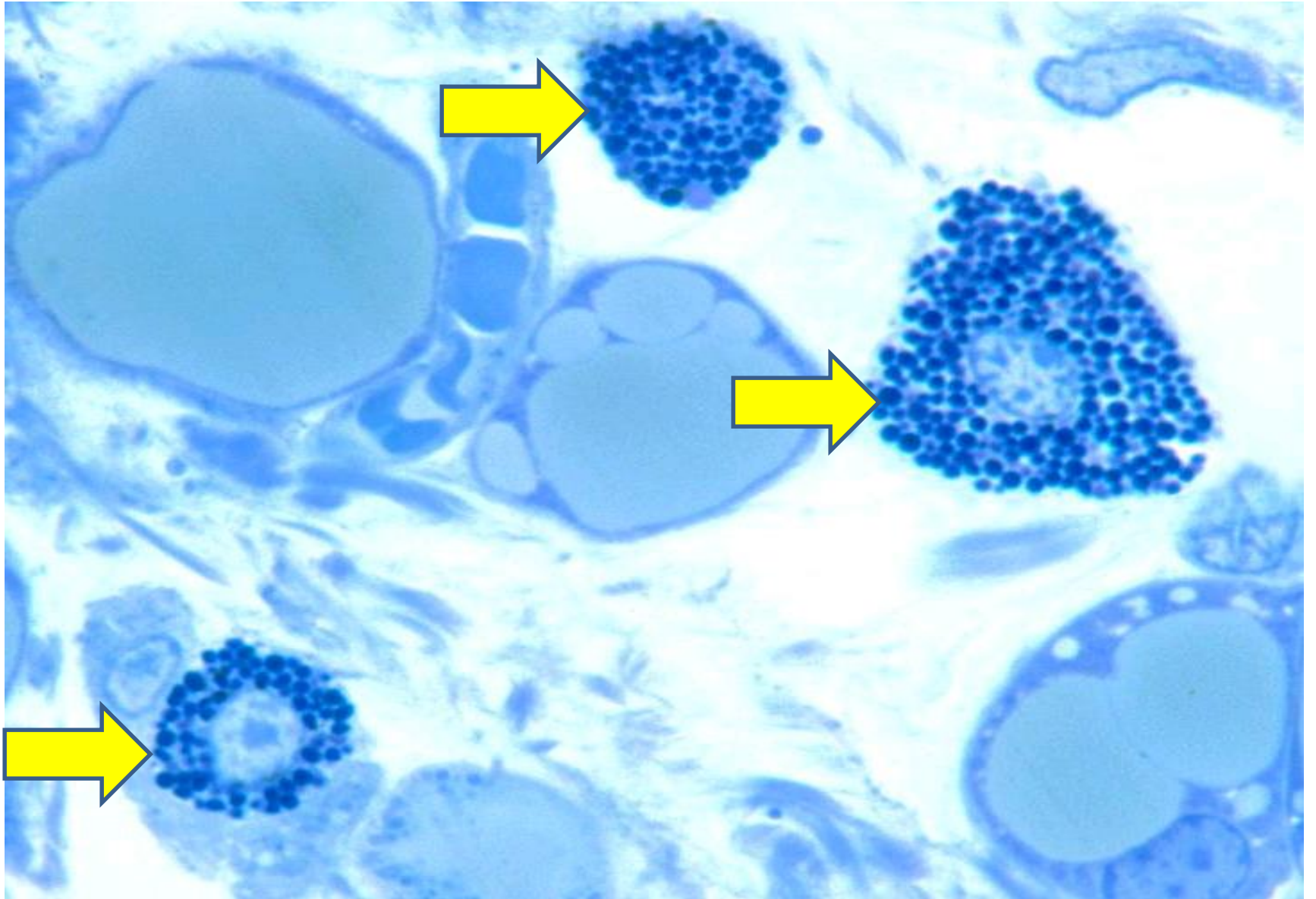


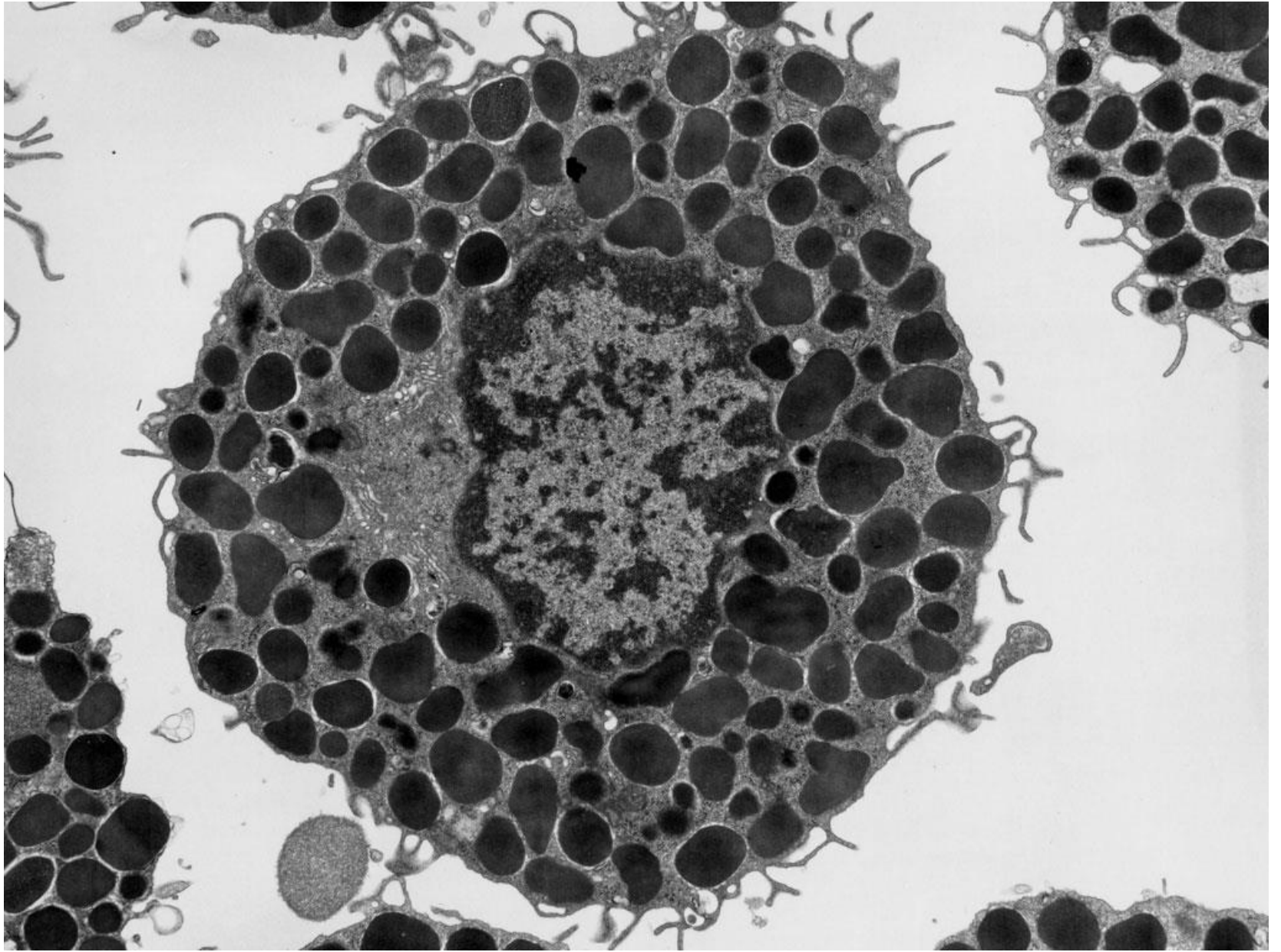
Compound tubulo-acinar

Sublingual gland

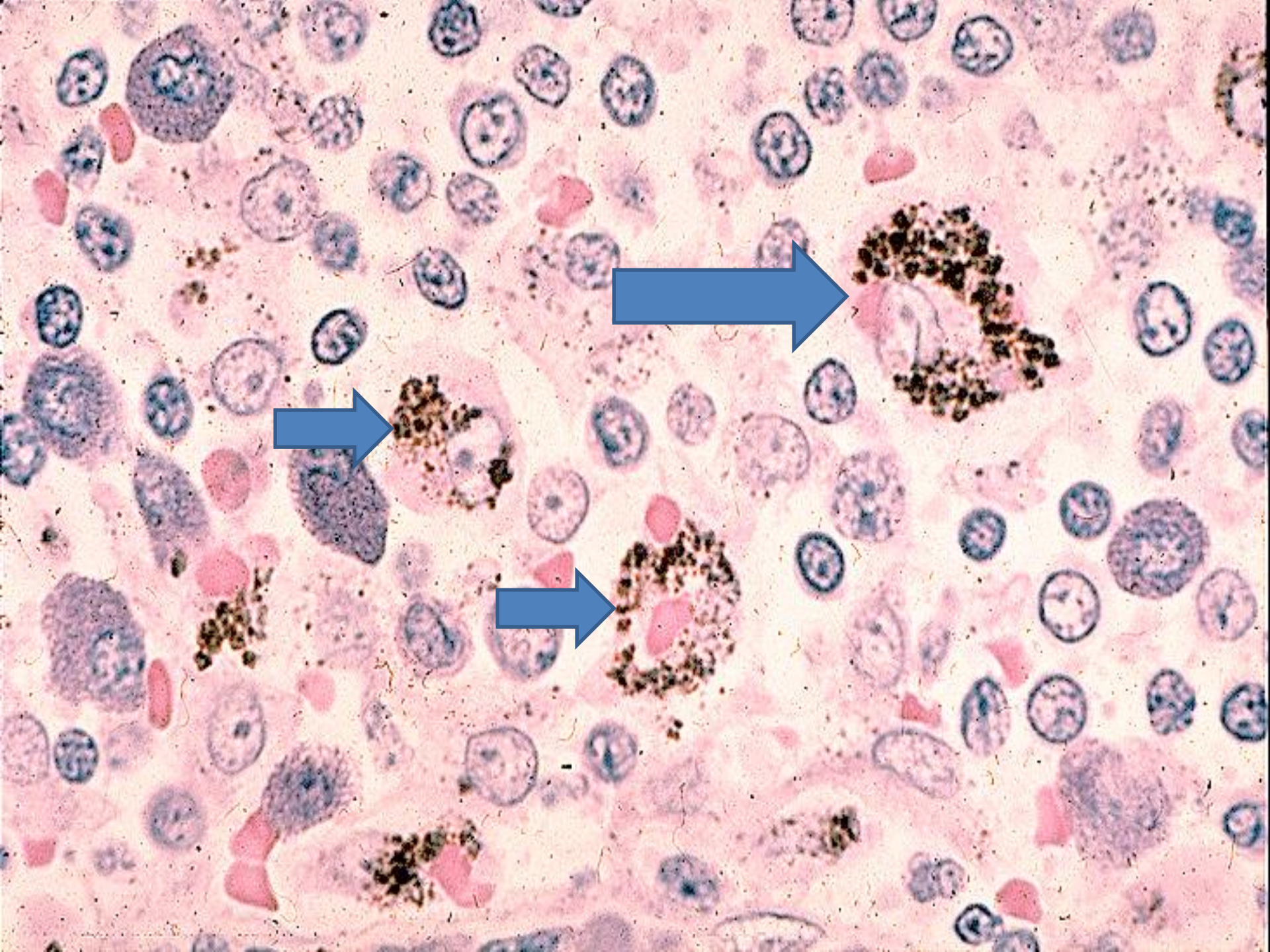
Connective tissue cells

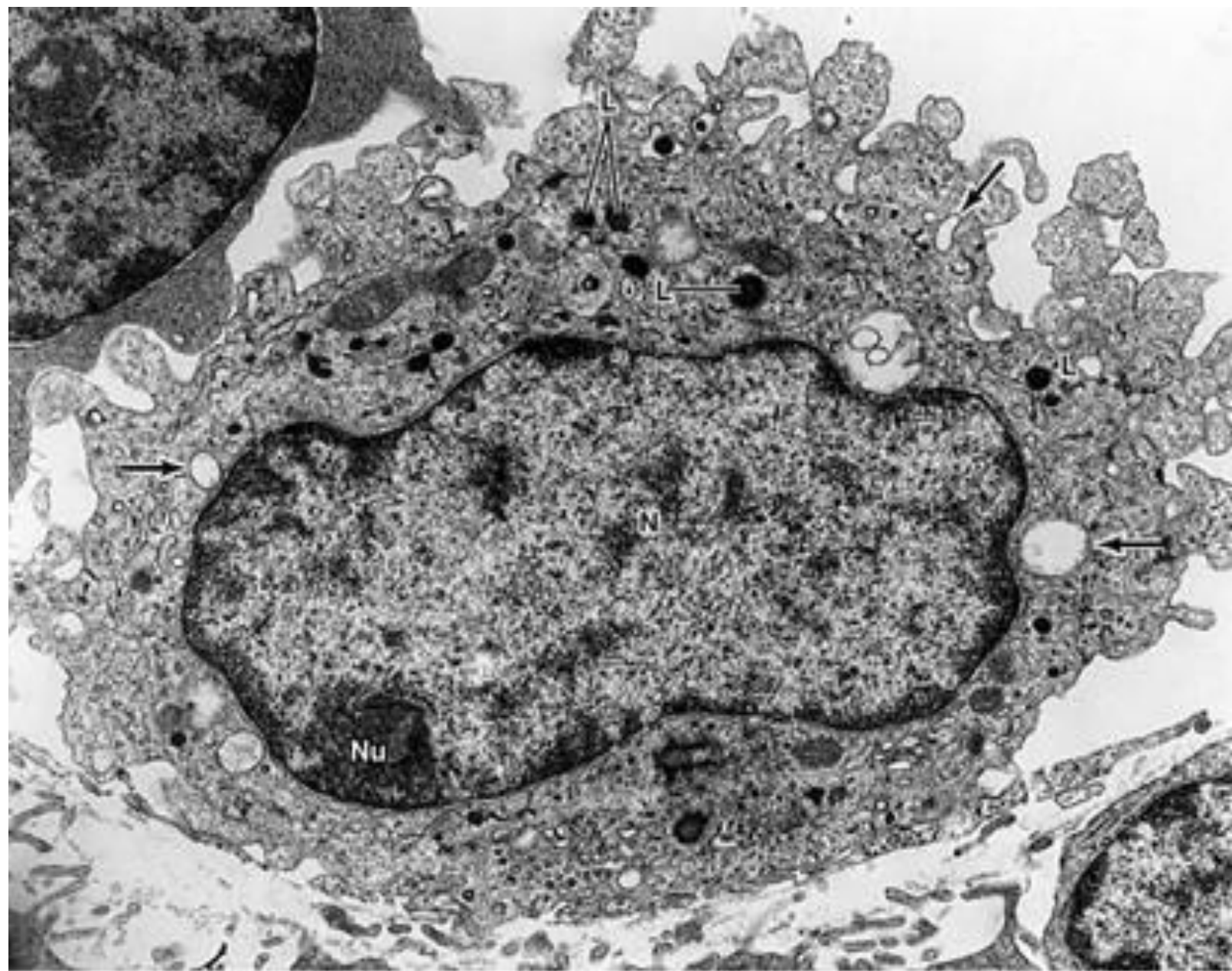
Mast cell





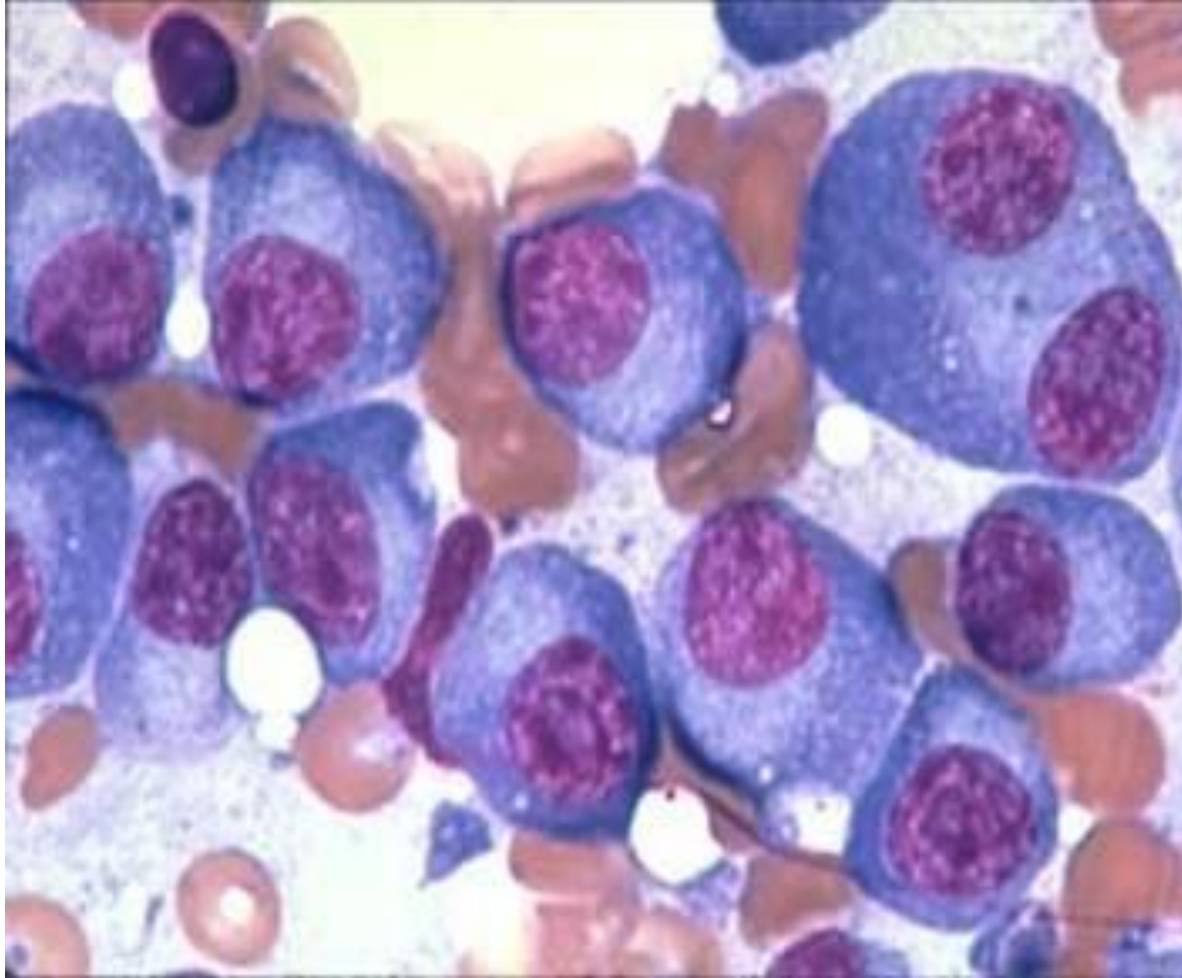
Macrophage

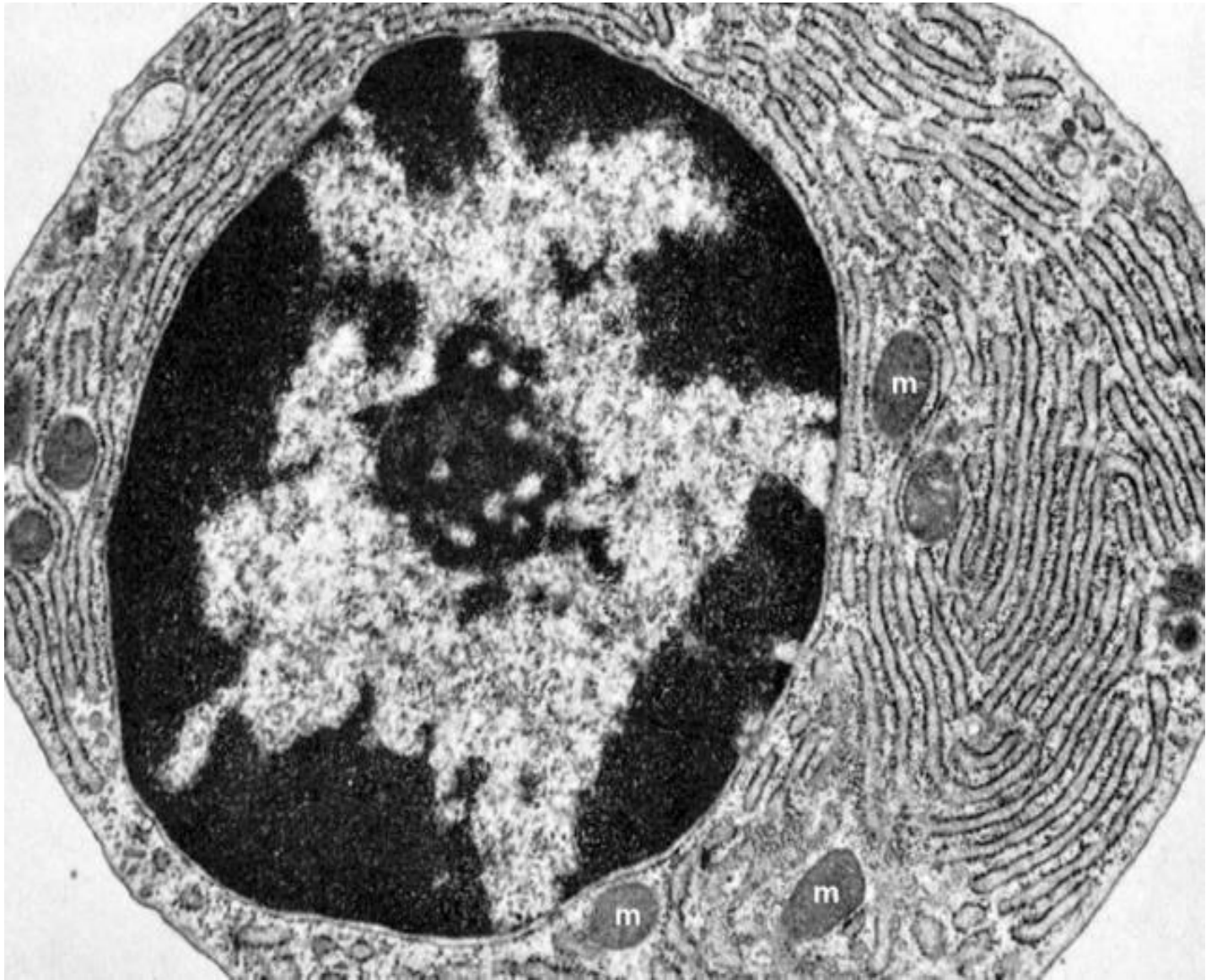




Plasma cell

Negative Golgi stain

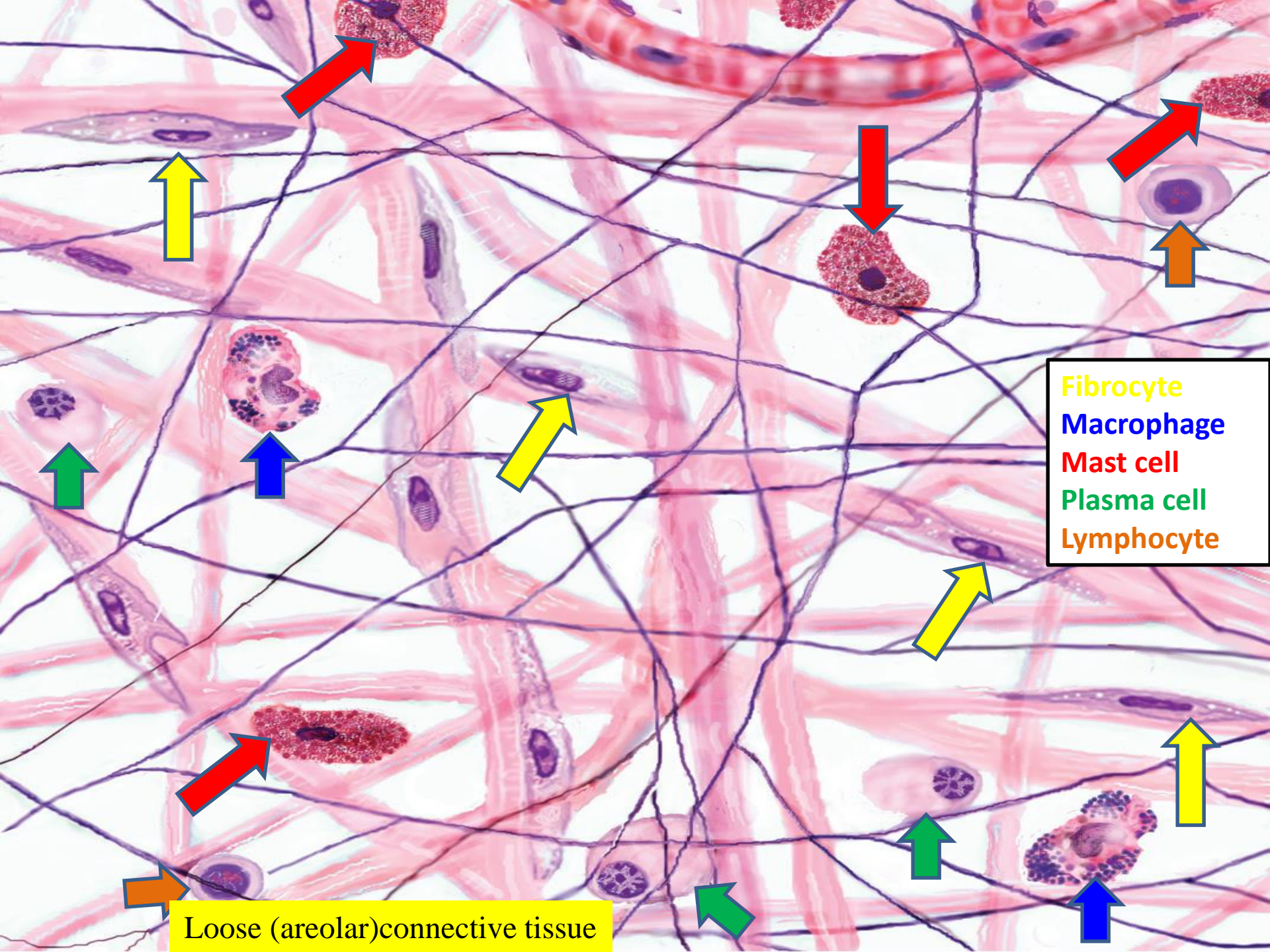




Connective tissue types

Embryonic connective tissue
(mesenchyme)

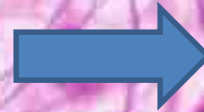




- Fibrocyte
- Macrophage
- Mast cell
- Plasma cell
- Lymphocyte

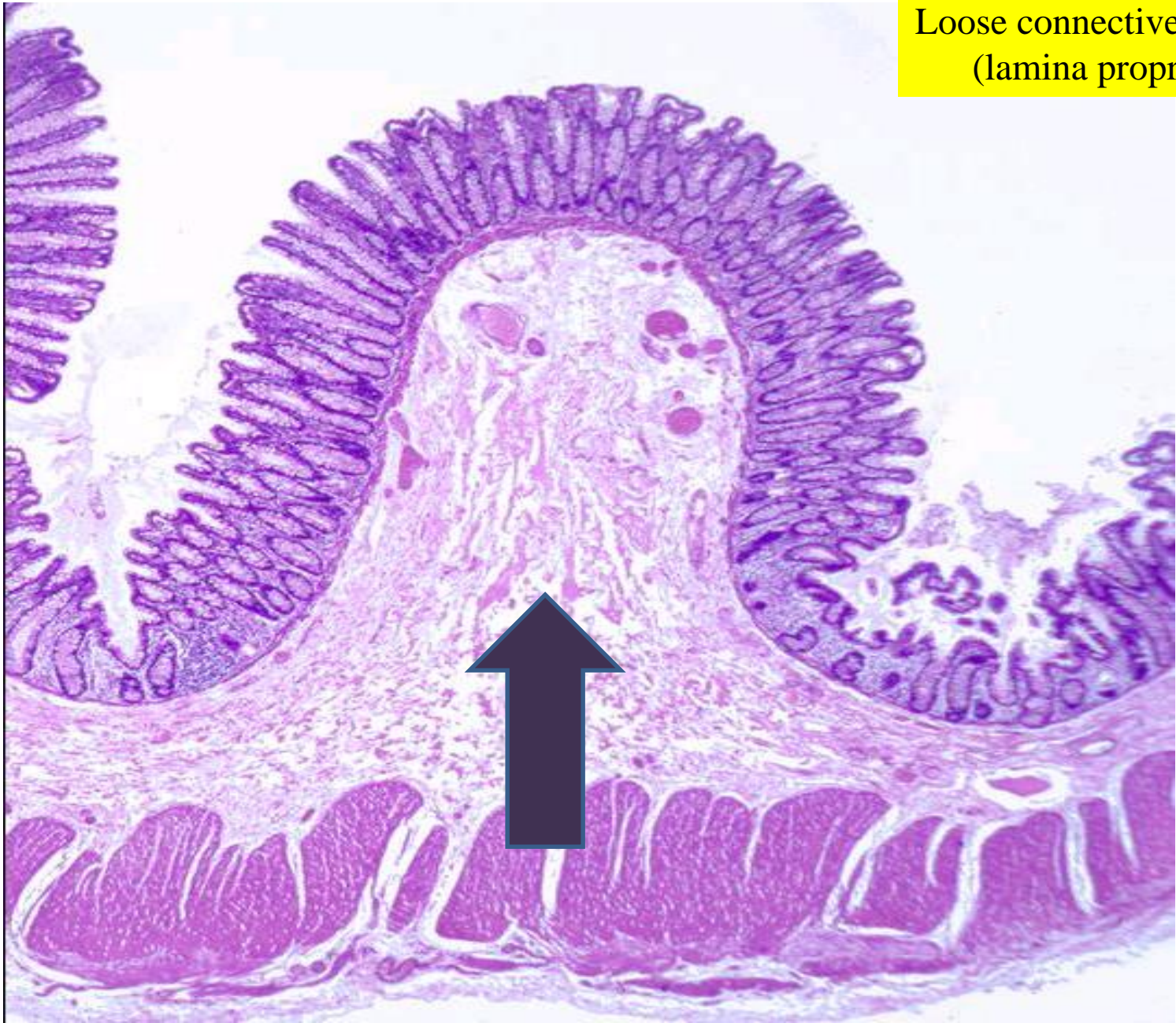
Loose (areolar) connective tissue

Loose (areolar) connective tissue

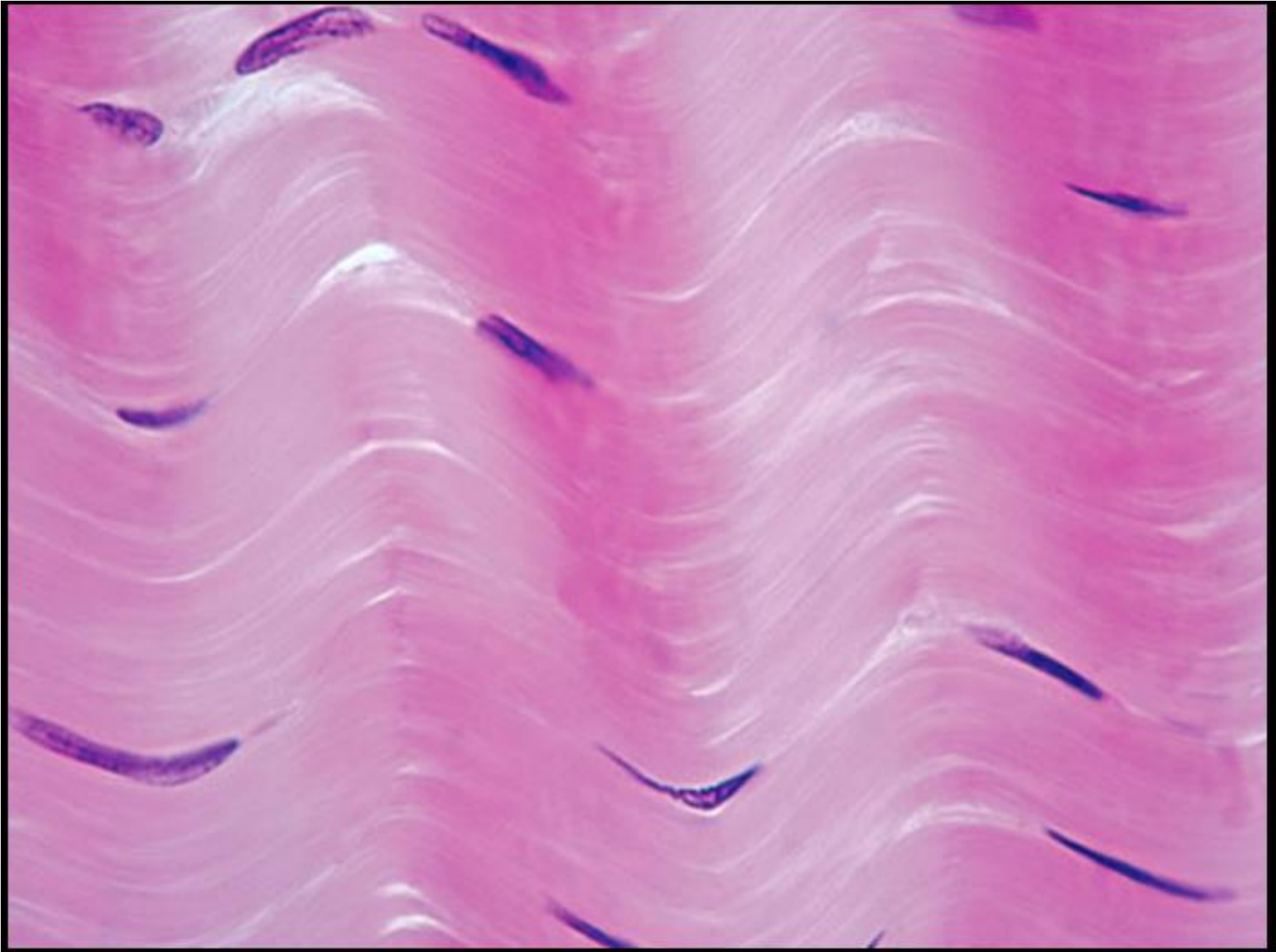


Elastic fiber
Collagen type 1

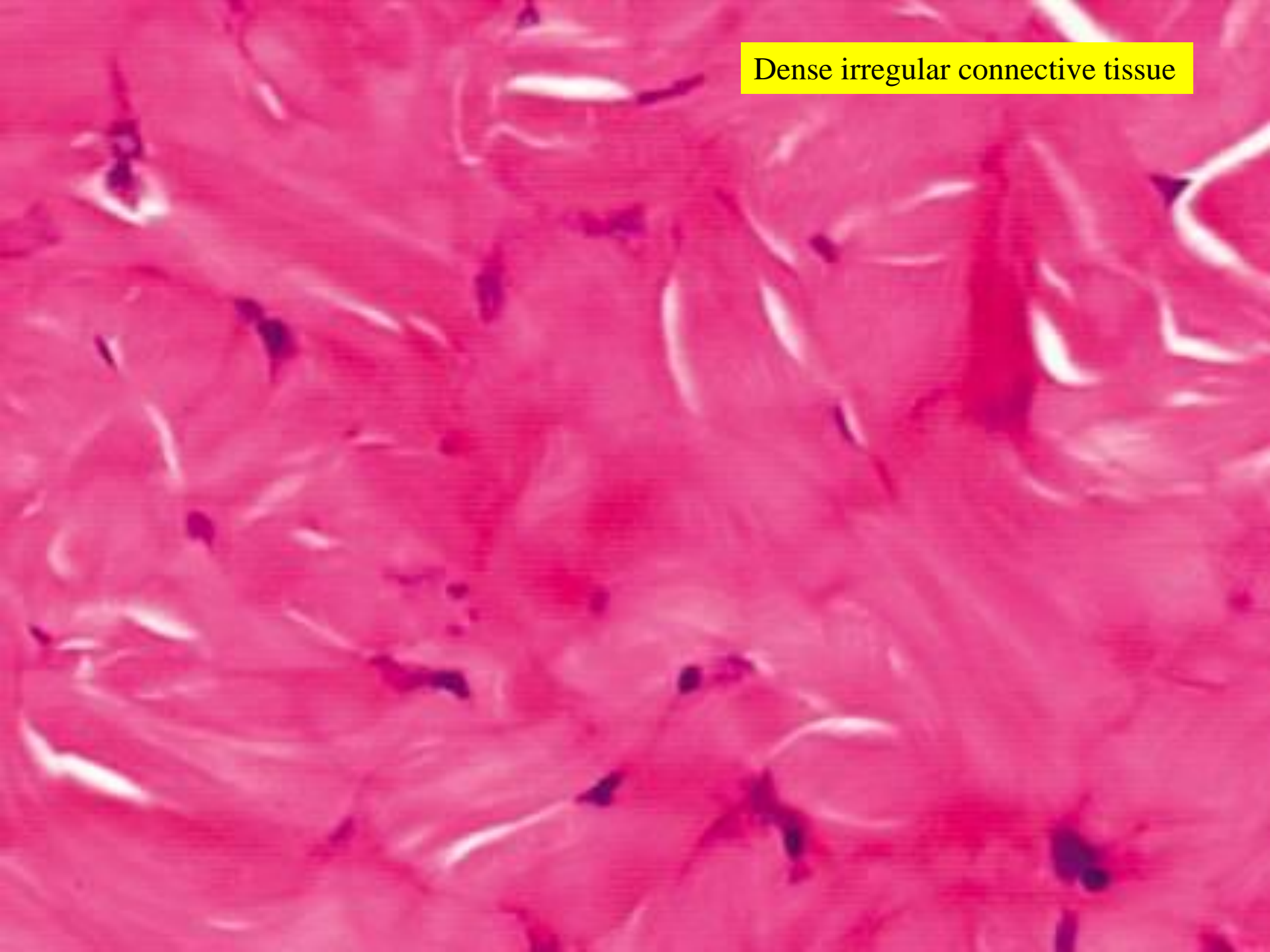
Loose connective tissue
(lamina propria)



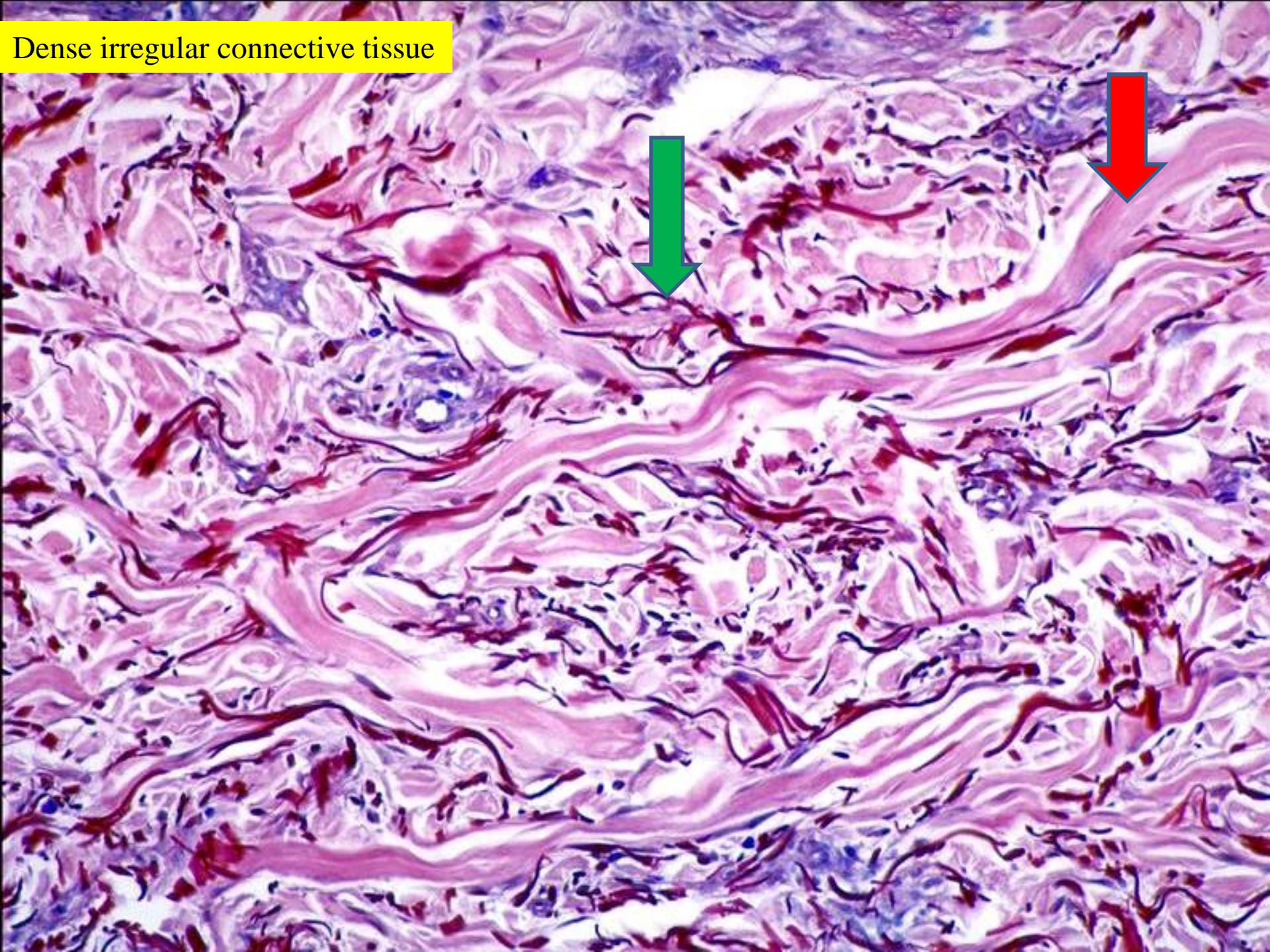
Dense regular connective tissue



Dense irregular connective tissue

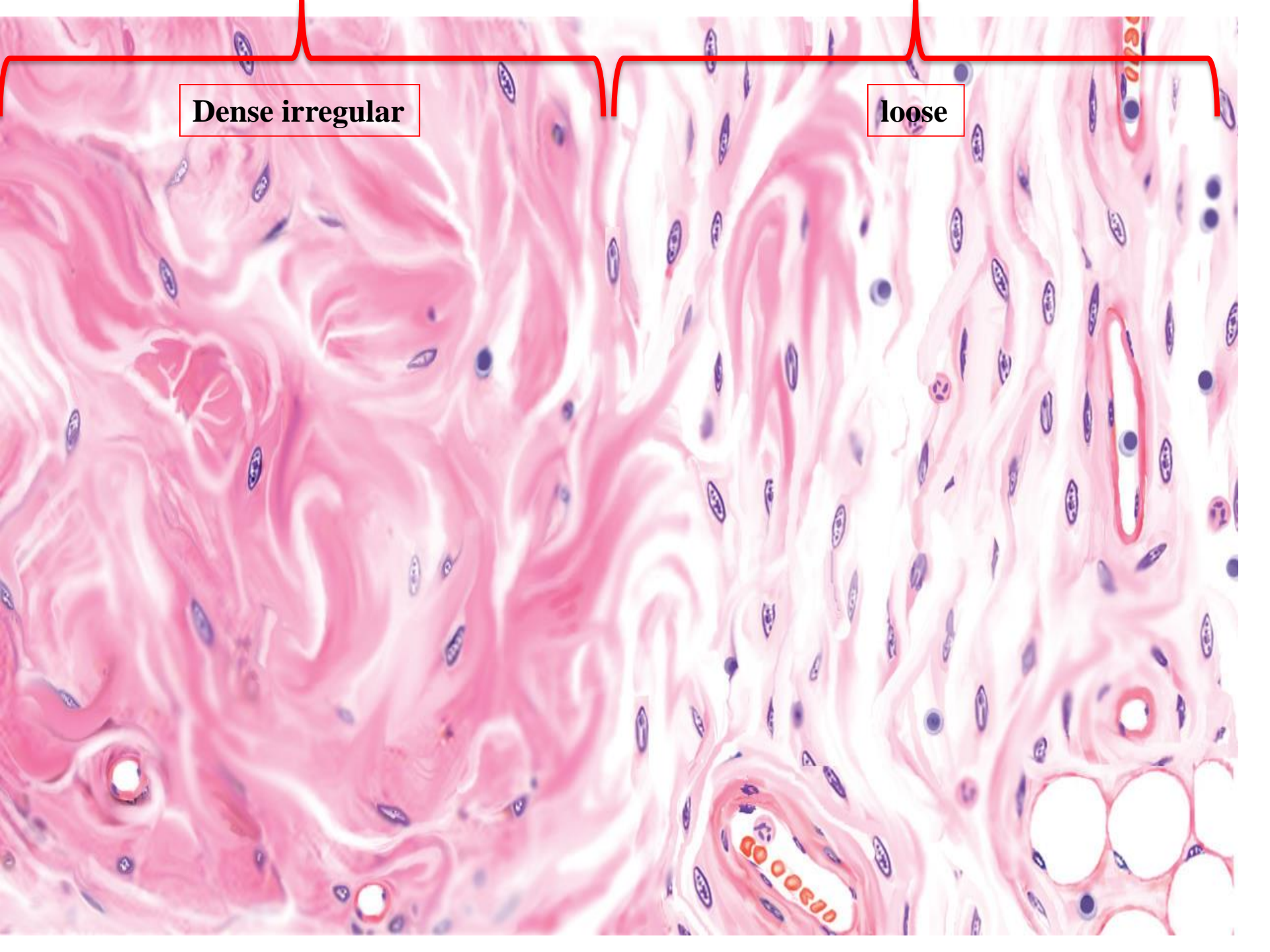


Dense irregular connective tissue



Dense irregular

loose



A: ELASTIC FIBER
B: SMOOTH MUSCLE
C: COLLAGEN FIBER

Elastic tissue

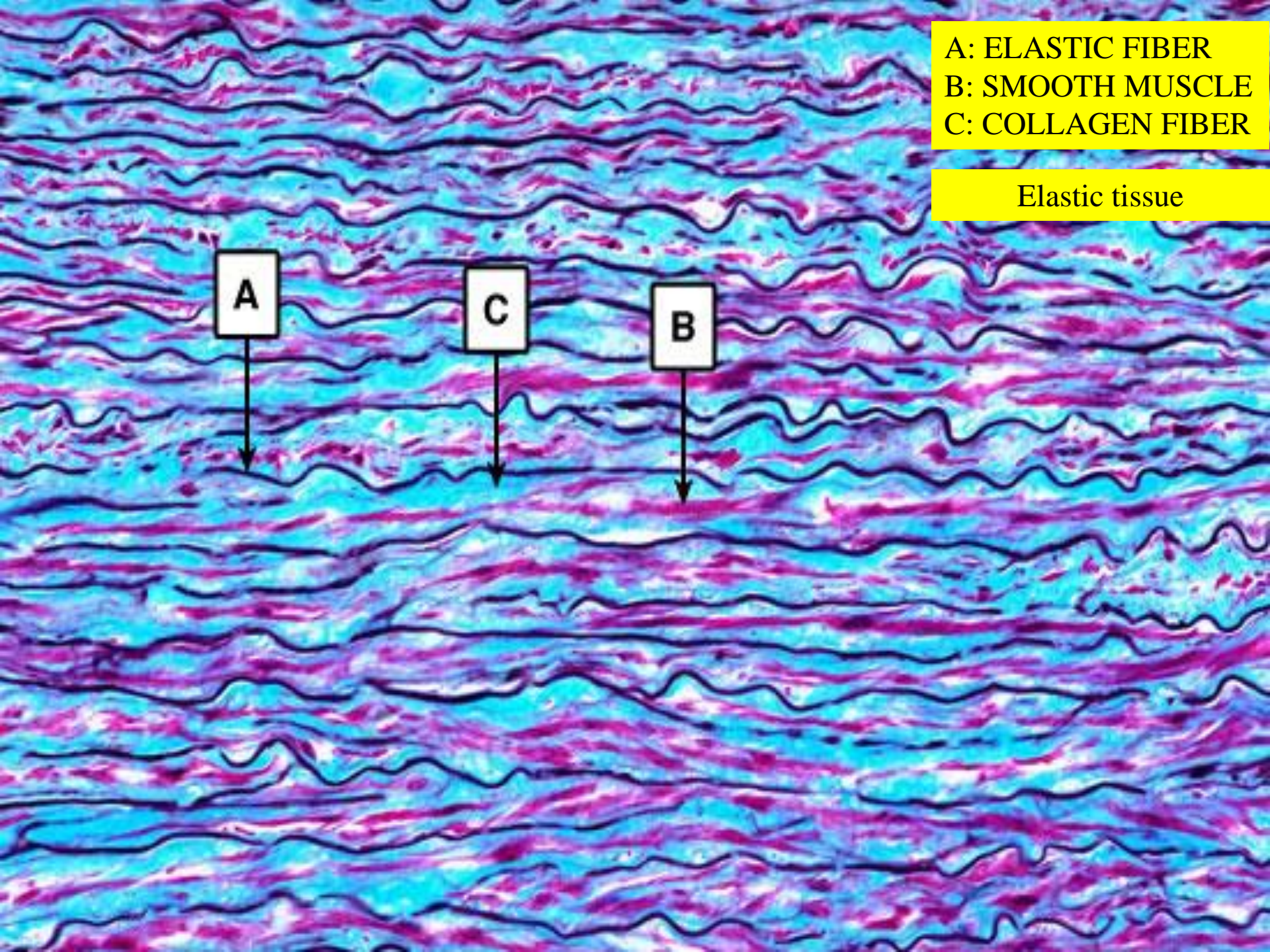
A



C

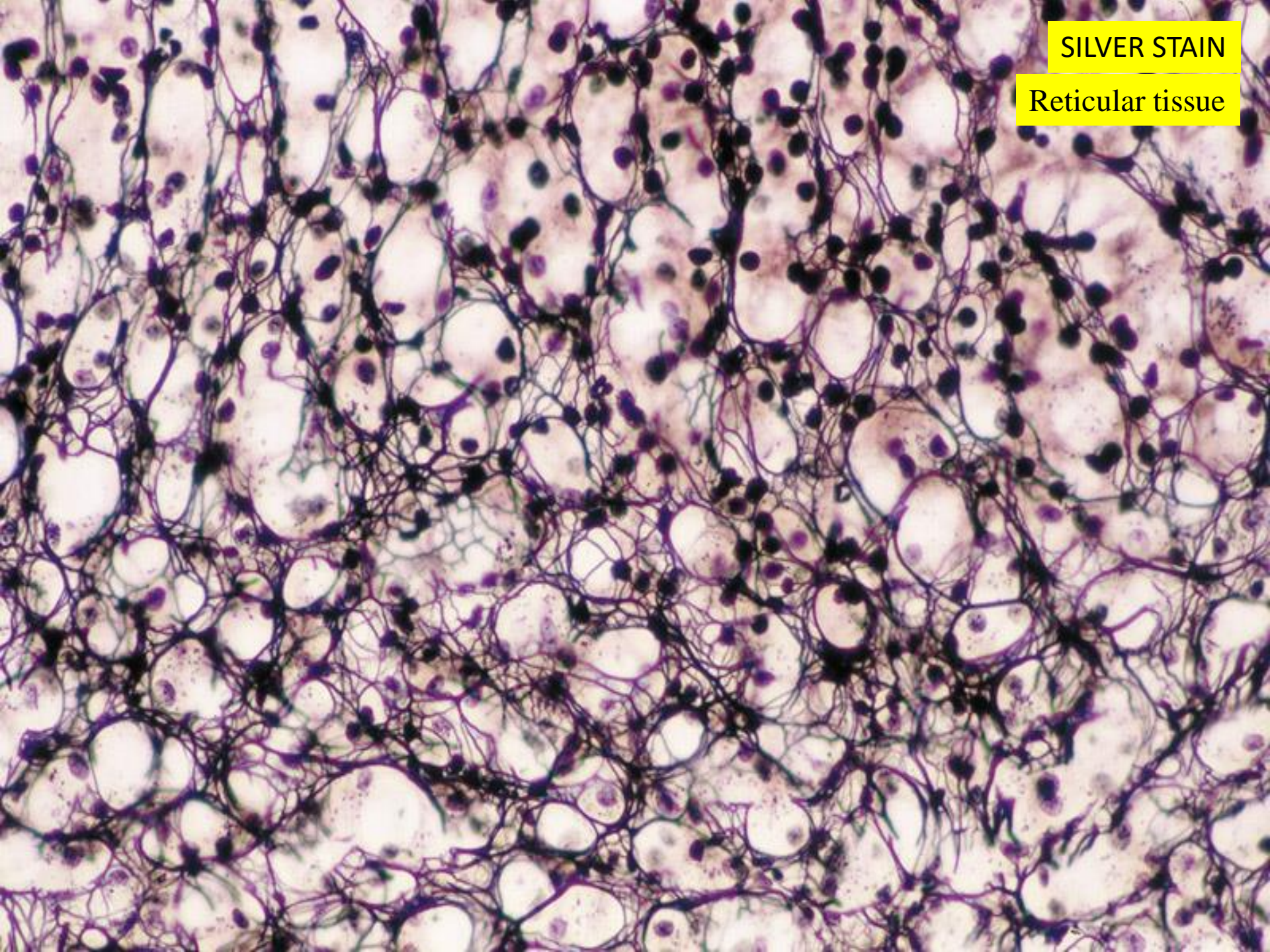


B



SILVER STAIN

Reticular tissue



Cartilage

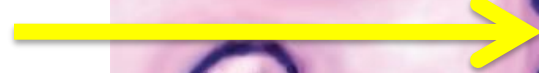
Lacuna



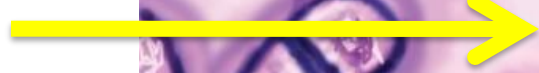
Chondrocyte



Territorial matrix



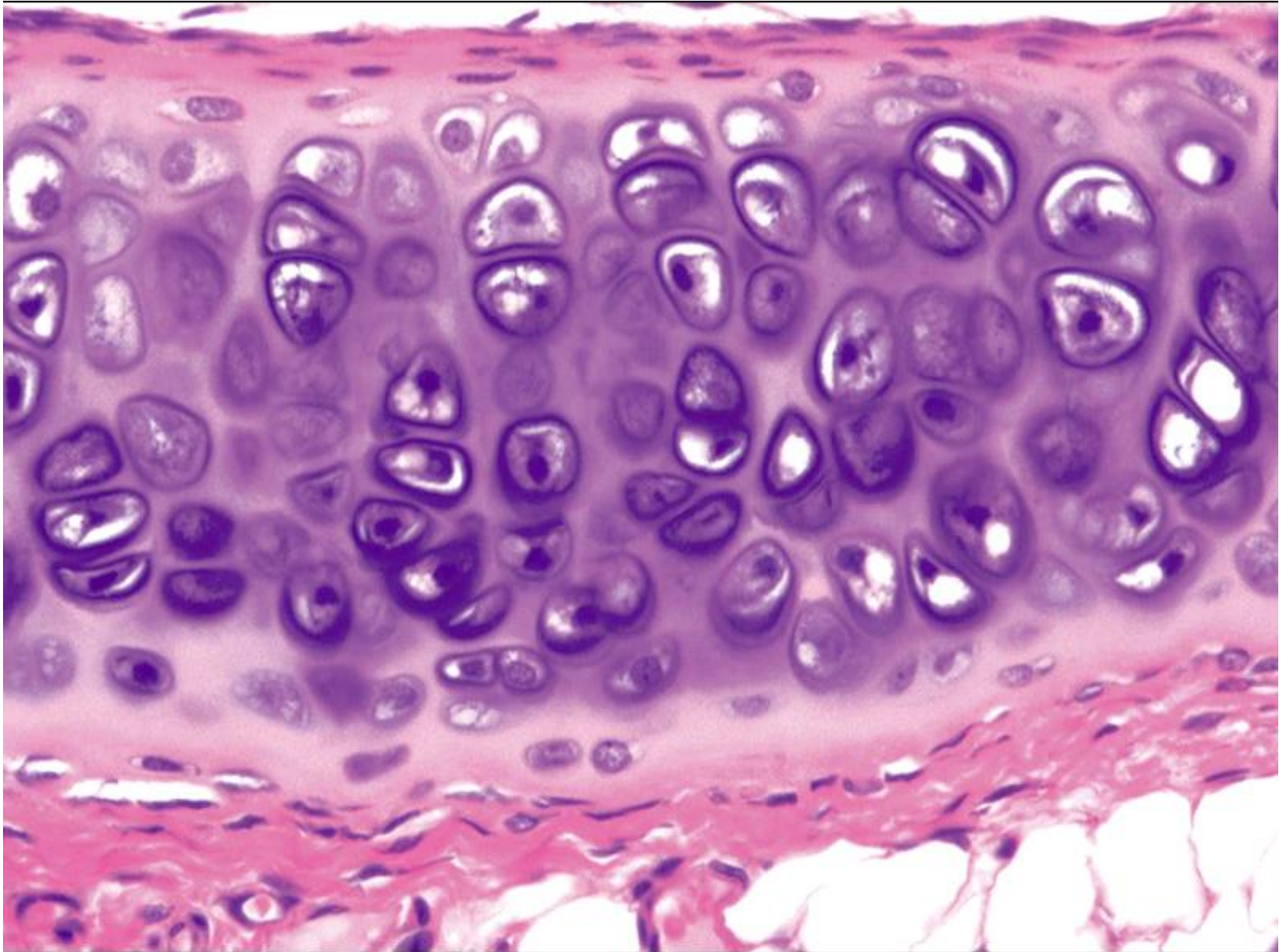
Inter-territorial matrix



Isogenous group



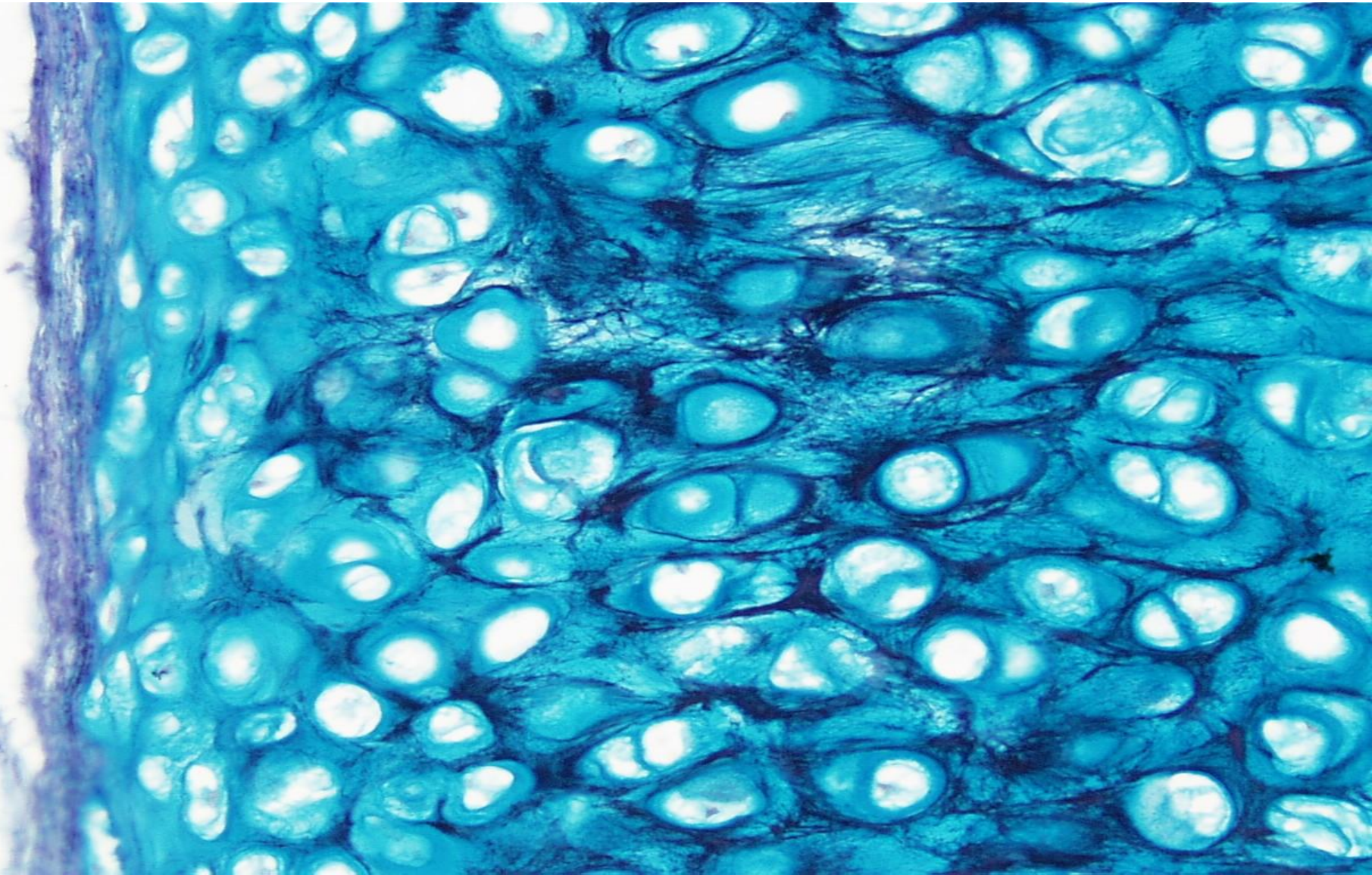
Hyaline cartilage



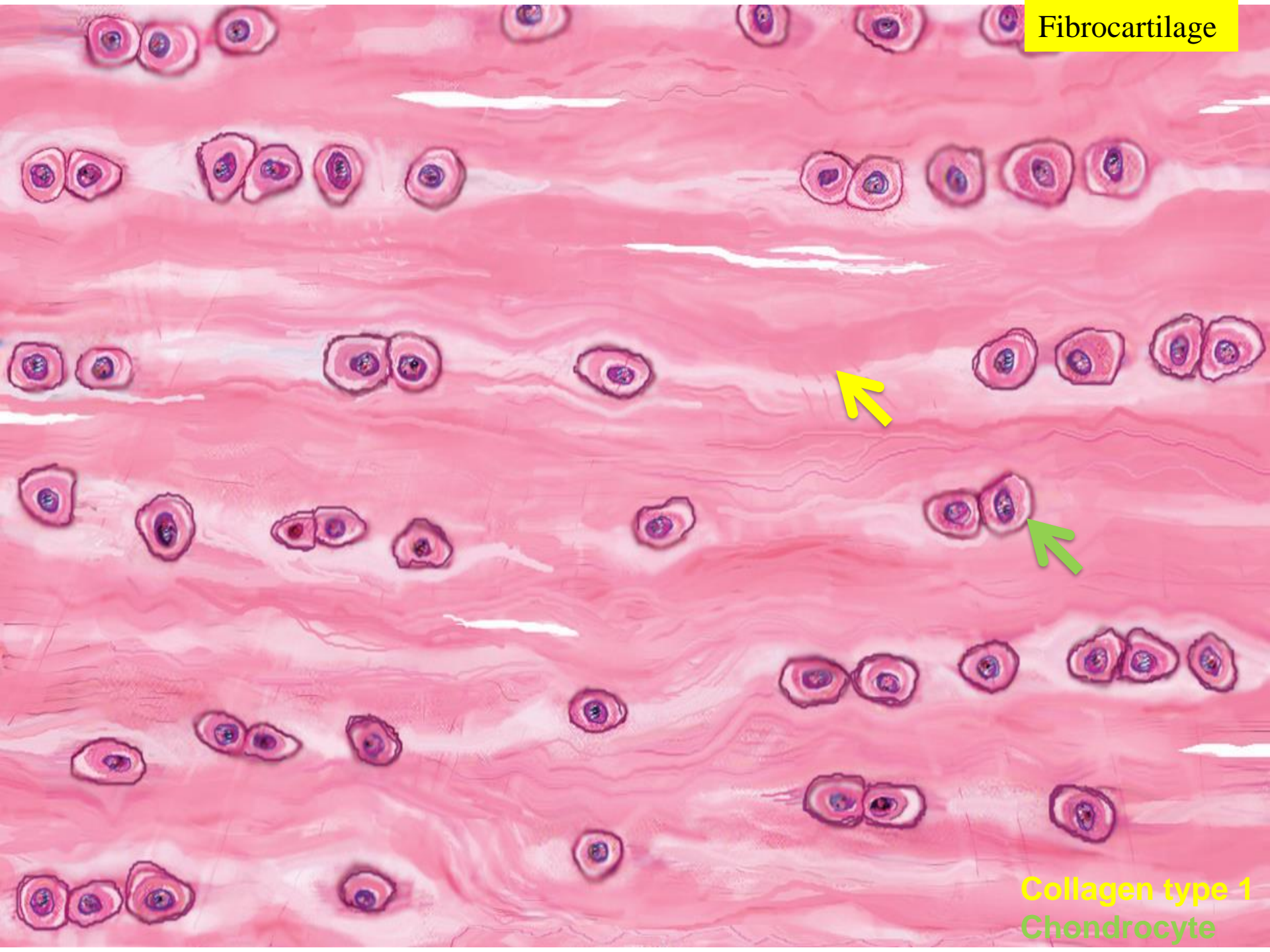
Elastic cartilage



Lacuna
Elastic fiber
Chondrocyte
Perichondrium

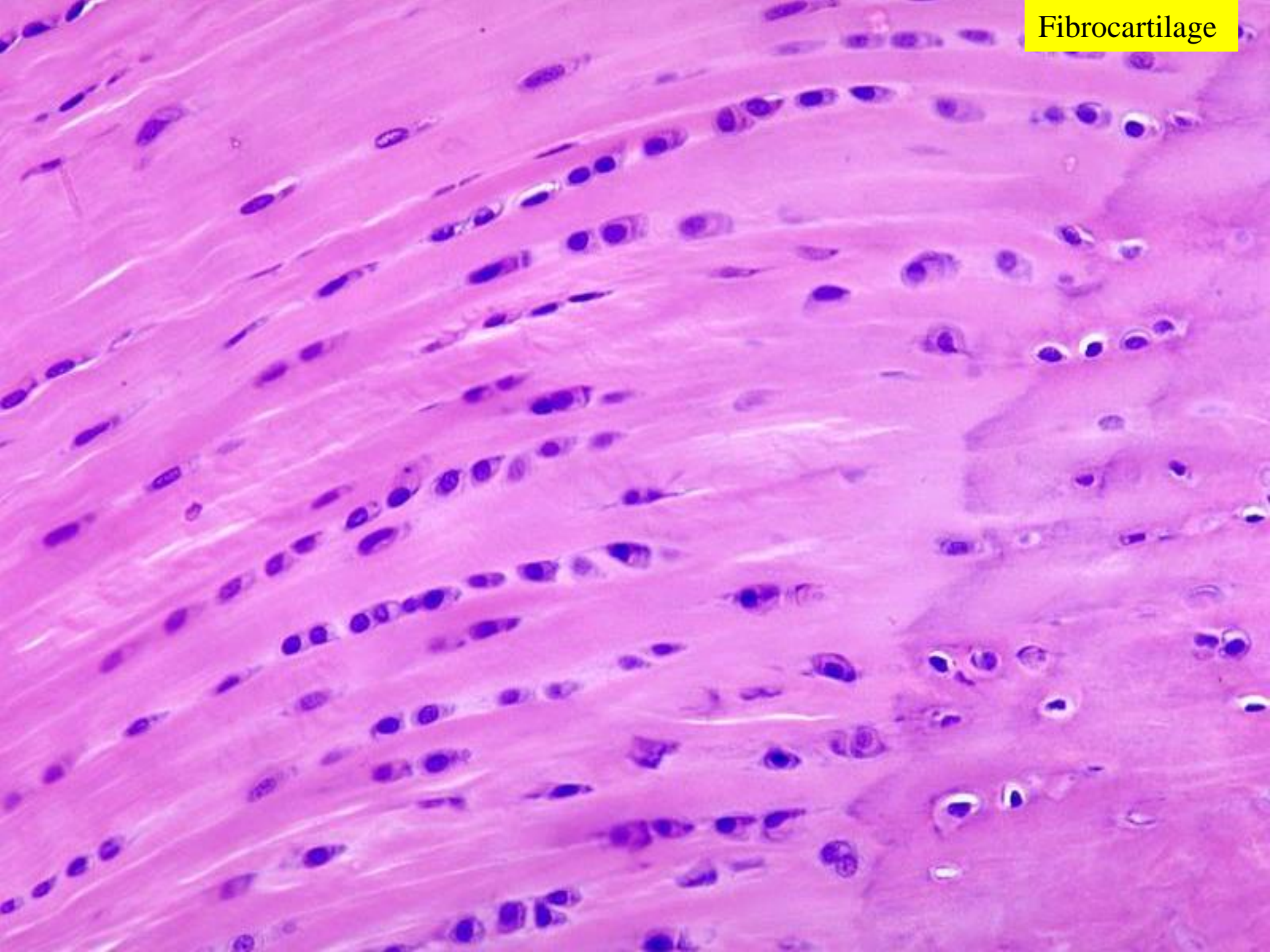


Fibrocartilage



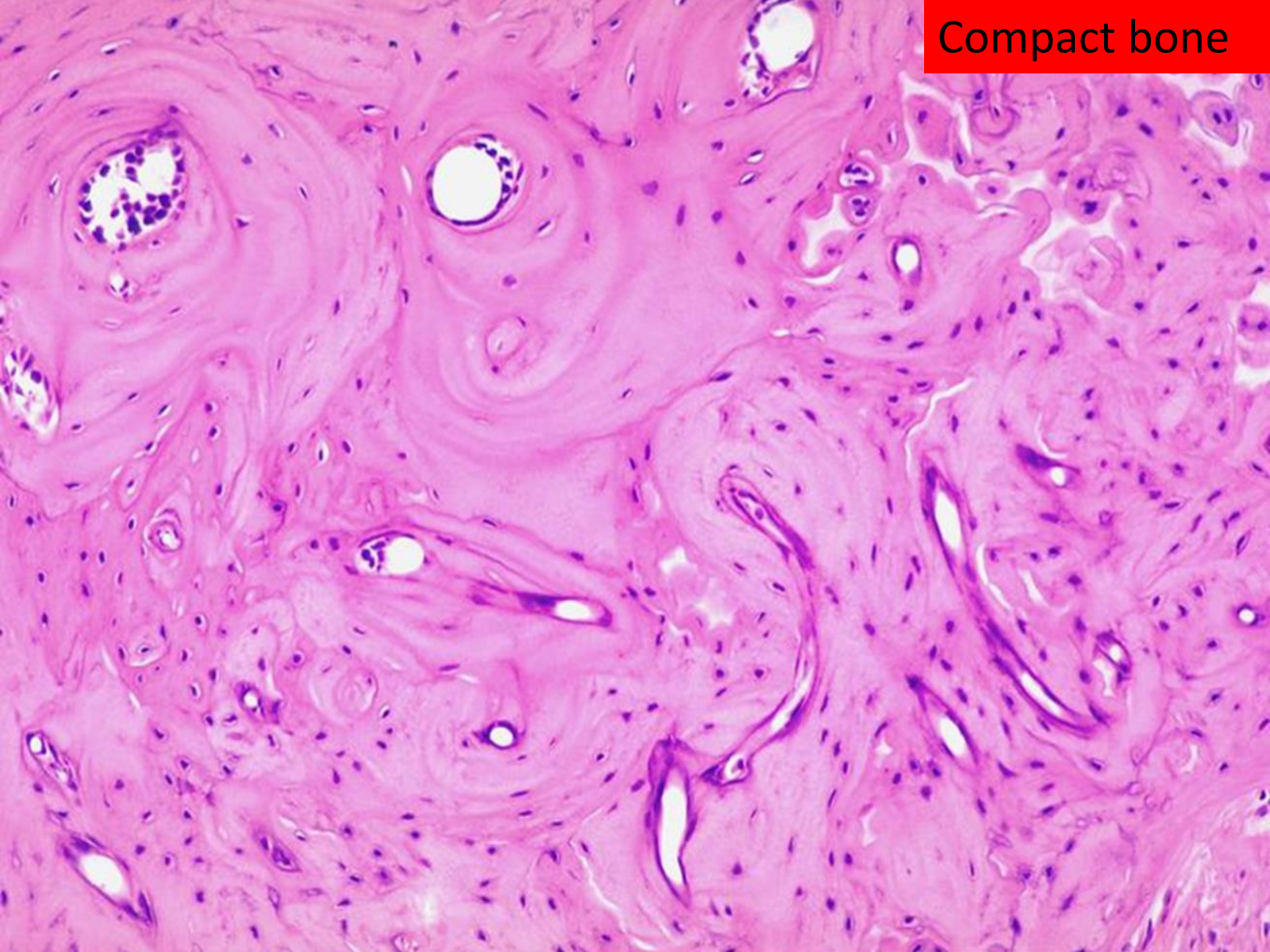
Collagen type 1
Chondrocyte

Fibrocartilage

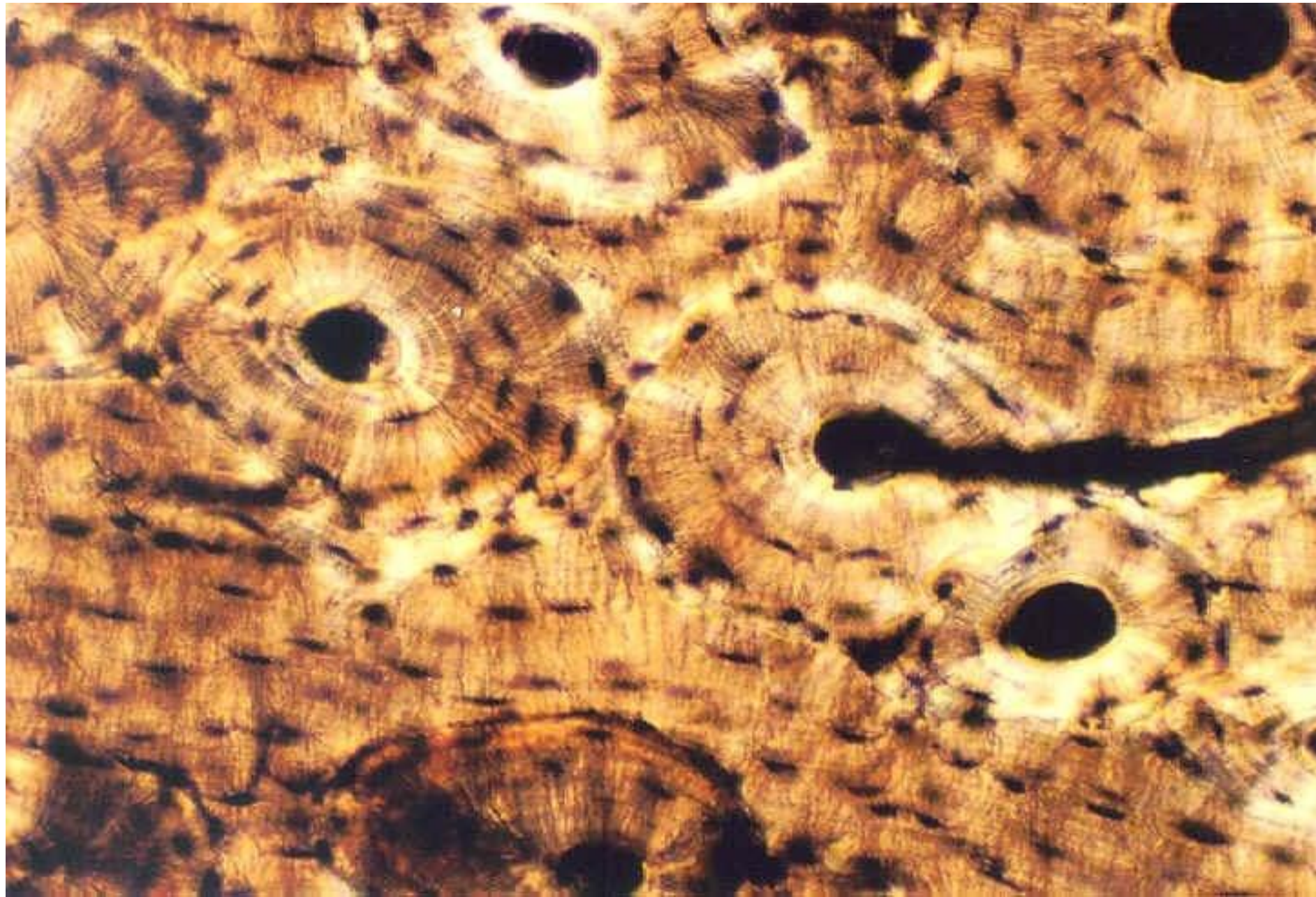


Bone tissue

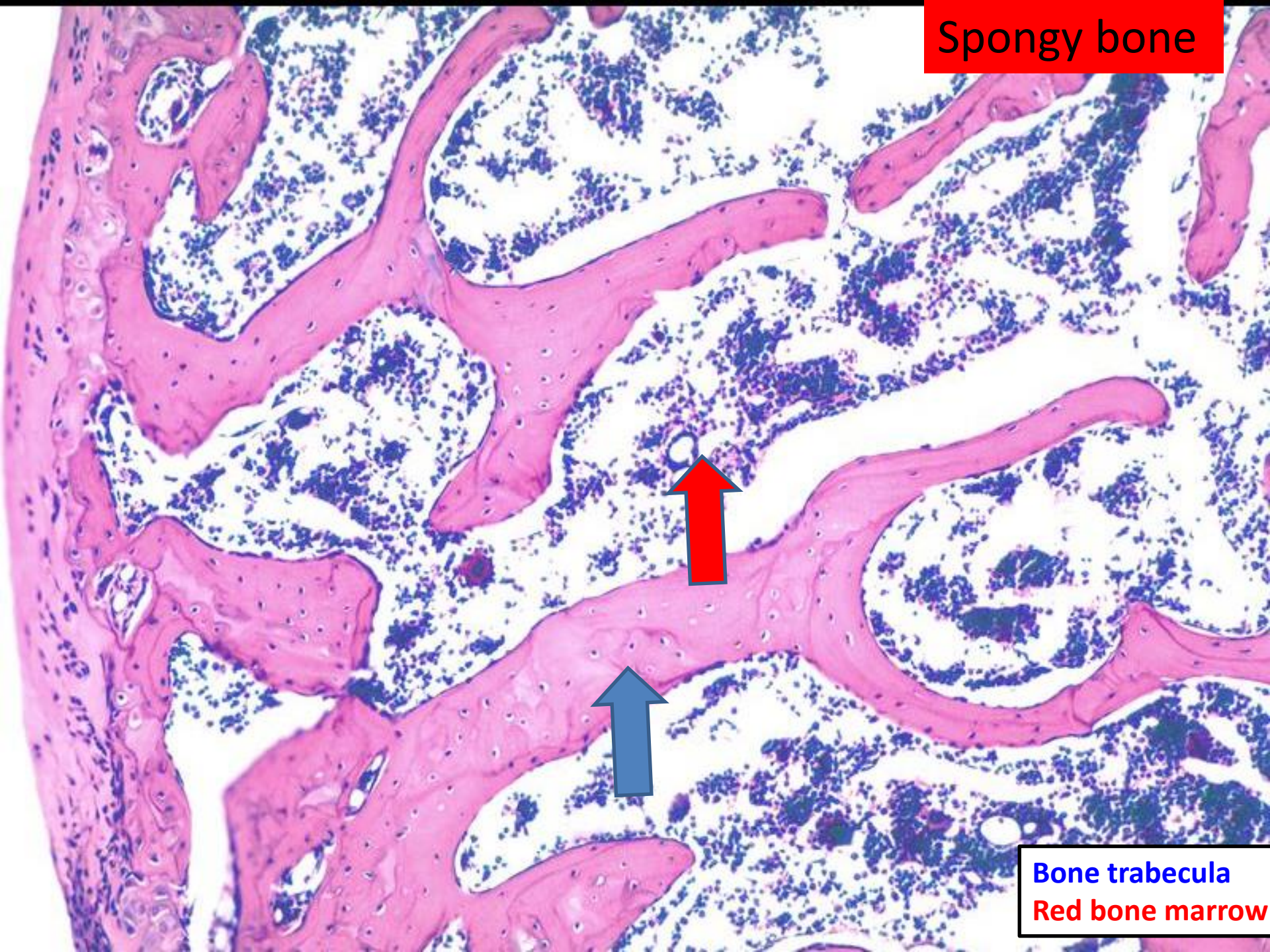
Compact bone



Compact bone

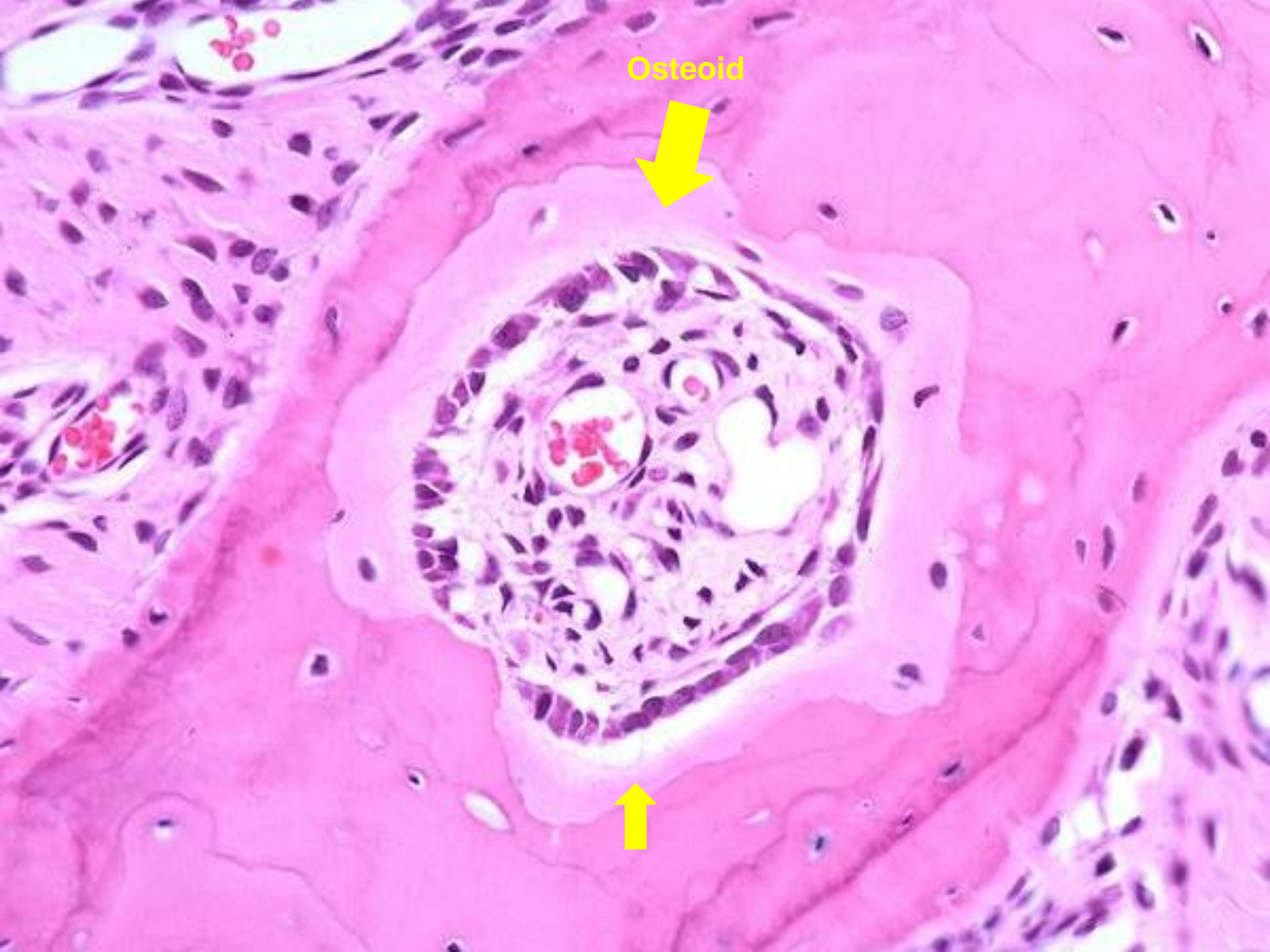


Spongy bone

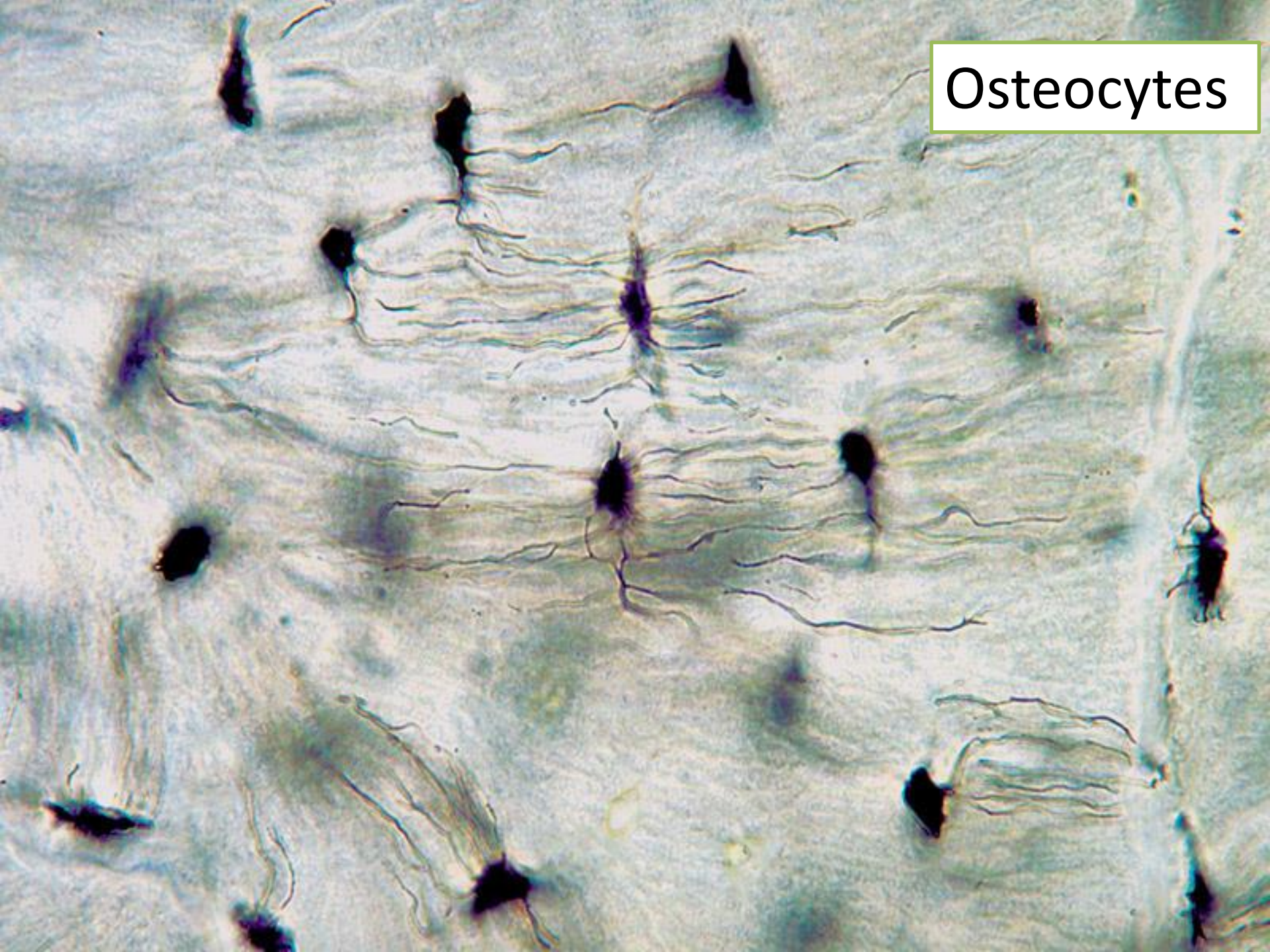


Bone trabecula
Red bone marrow

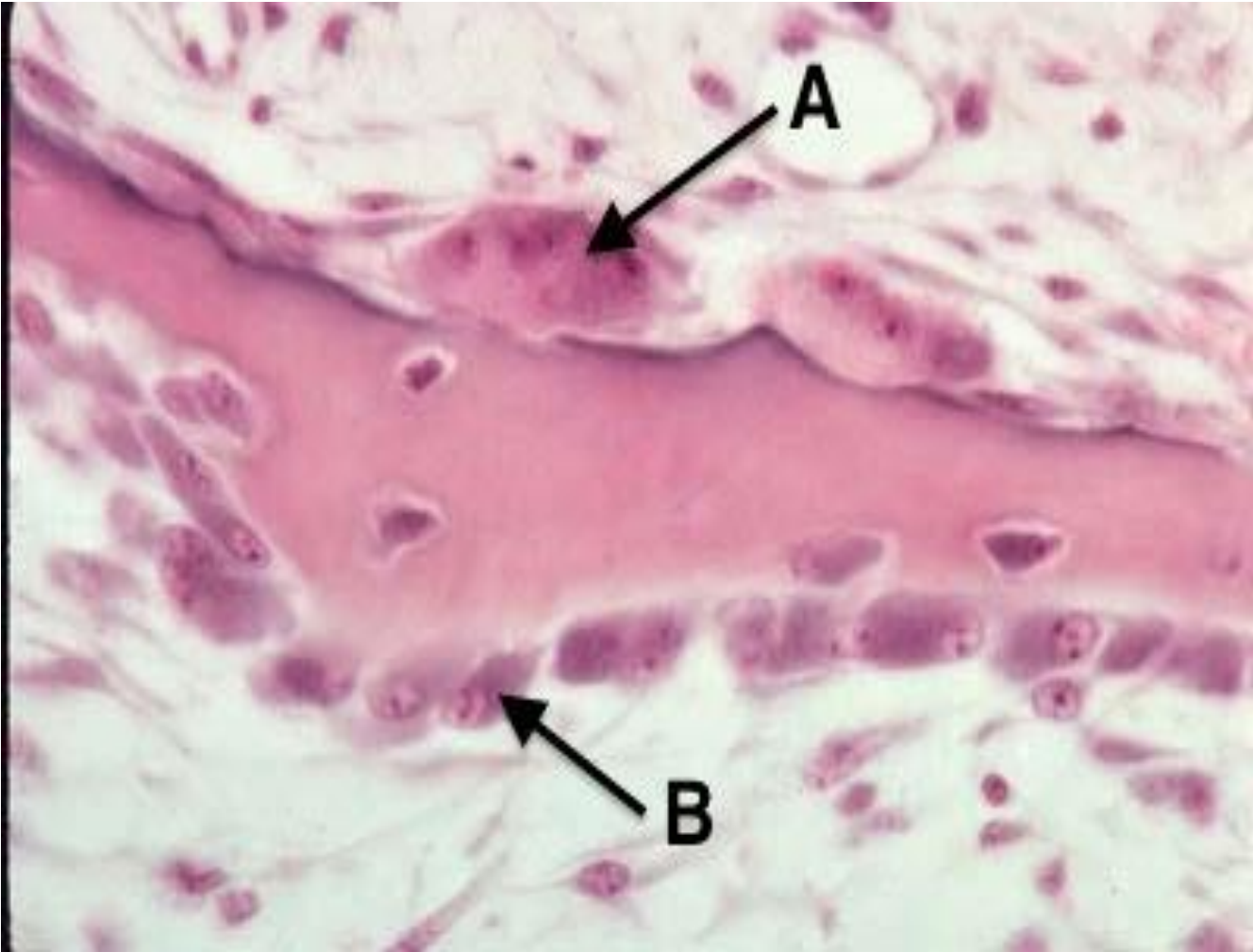
Osteoid



Osteocytes

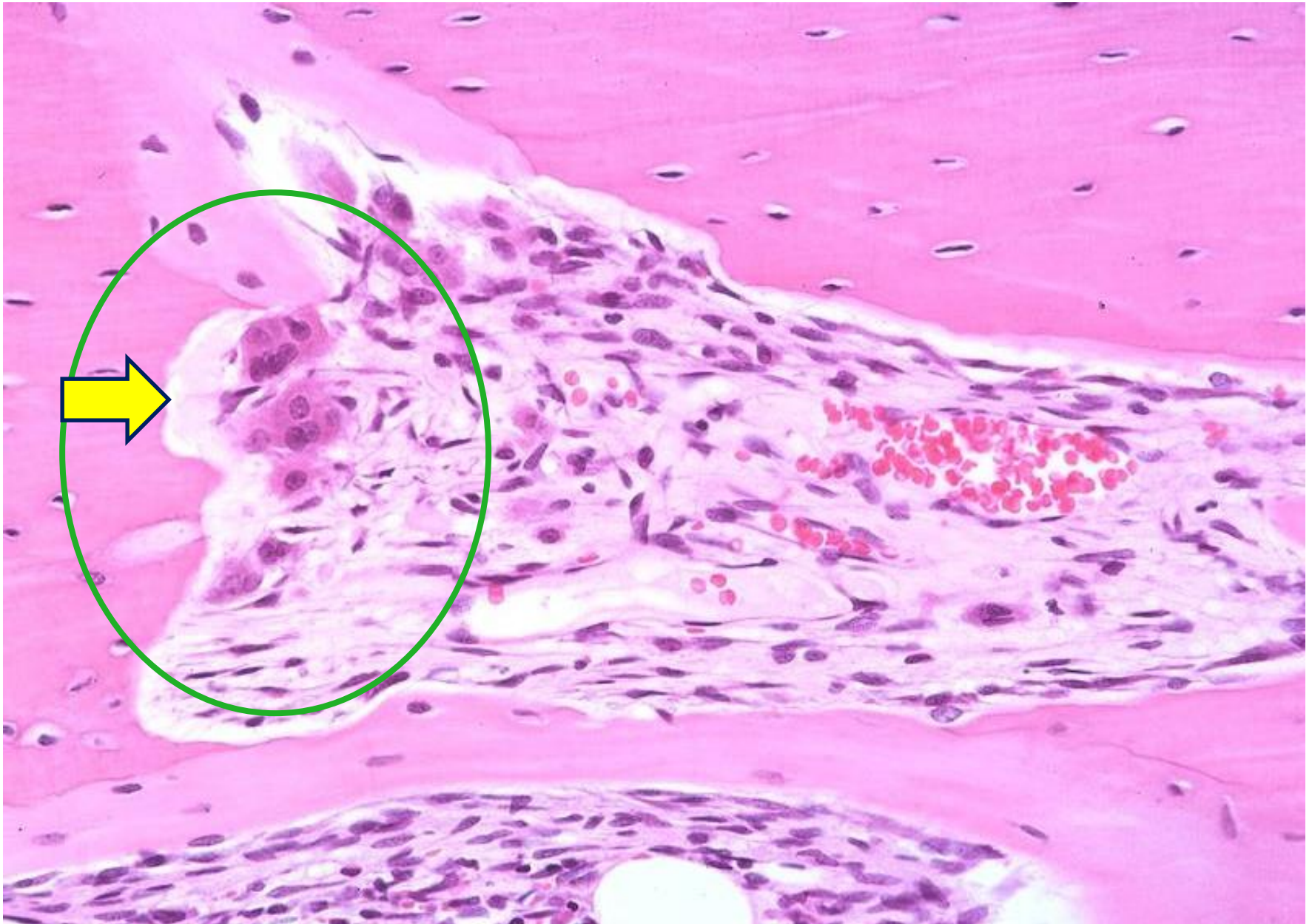


A: Osteoclast
B: Osteoblast



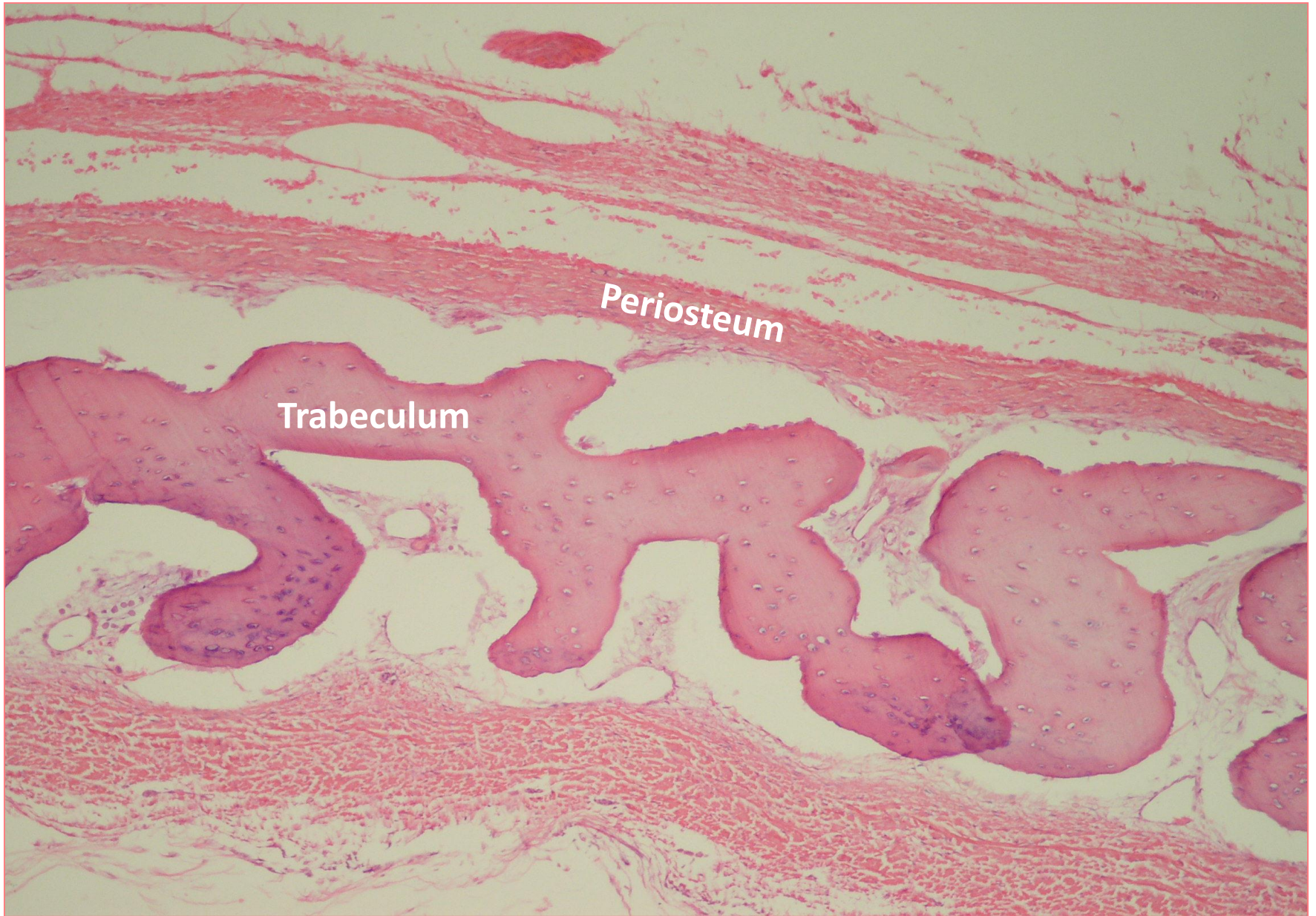
Howship lacuna

Osteoclasts

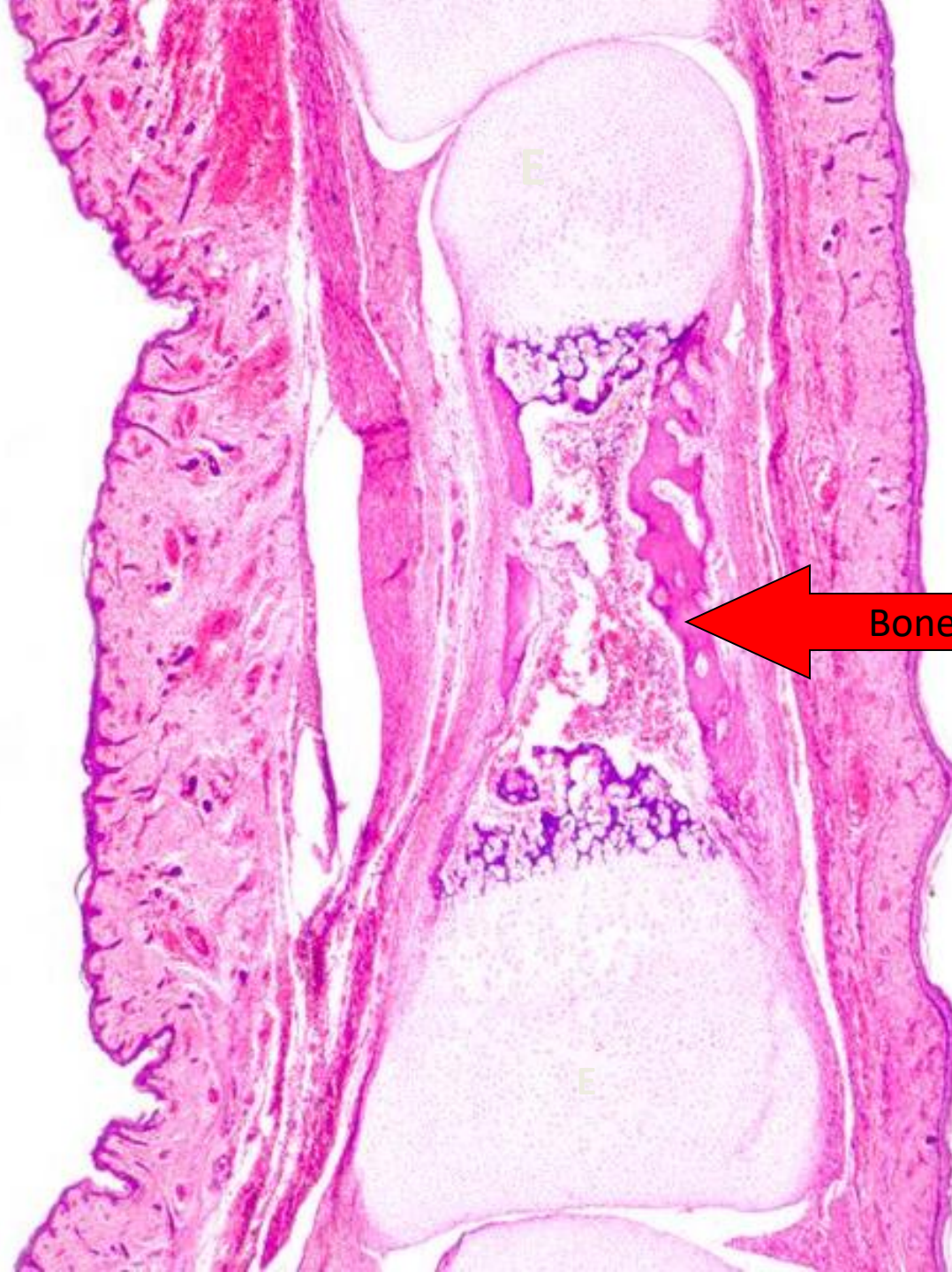


Bone ossification

Intramembranous ossification



Endochondral
ossification

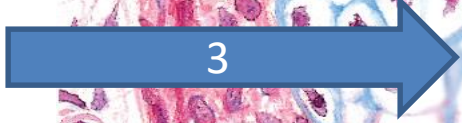


Bone collar

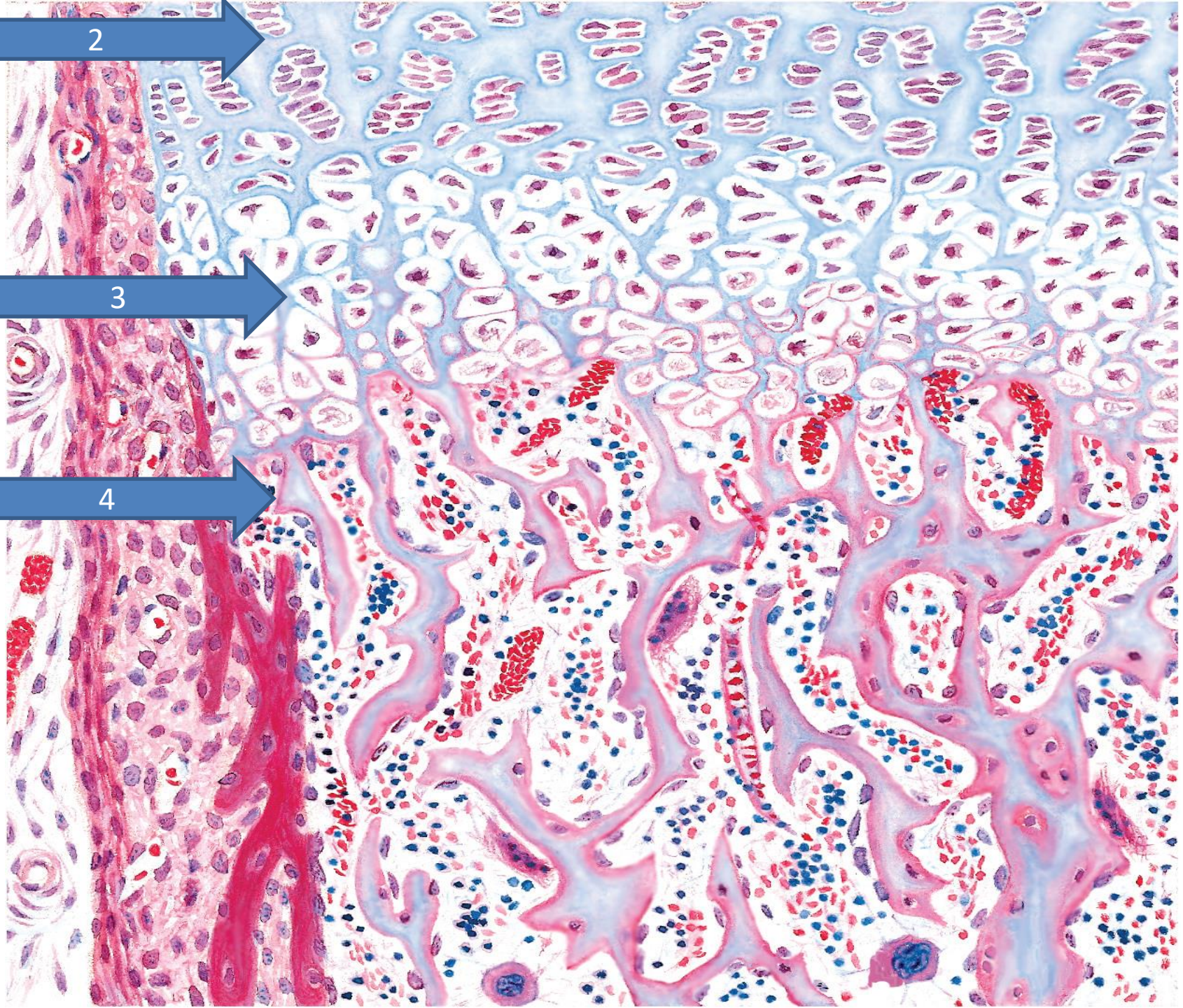
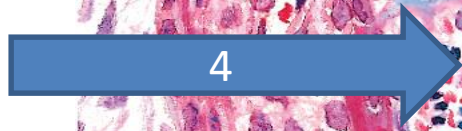
2

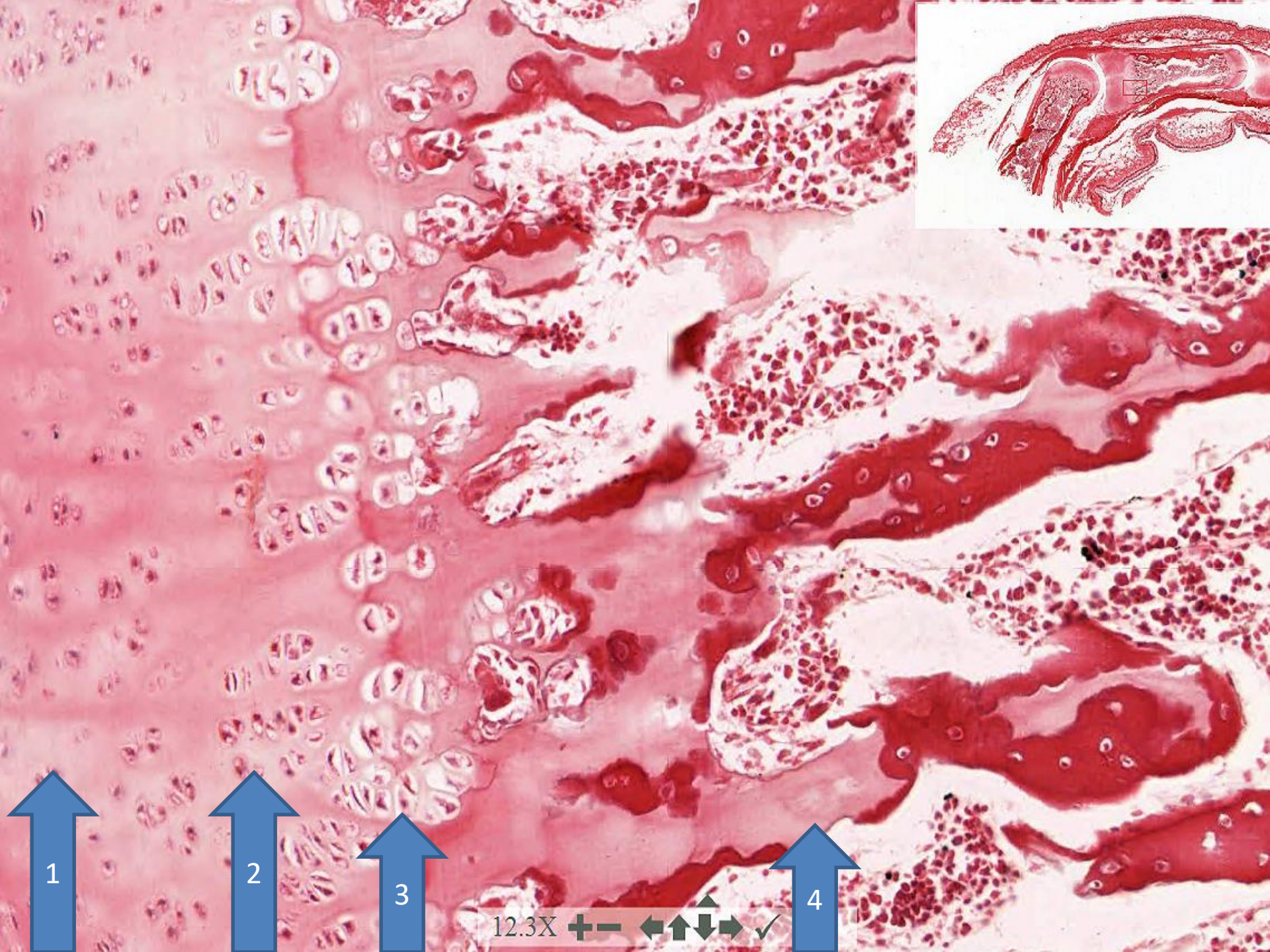


3



4





1

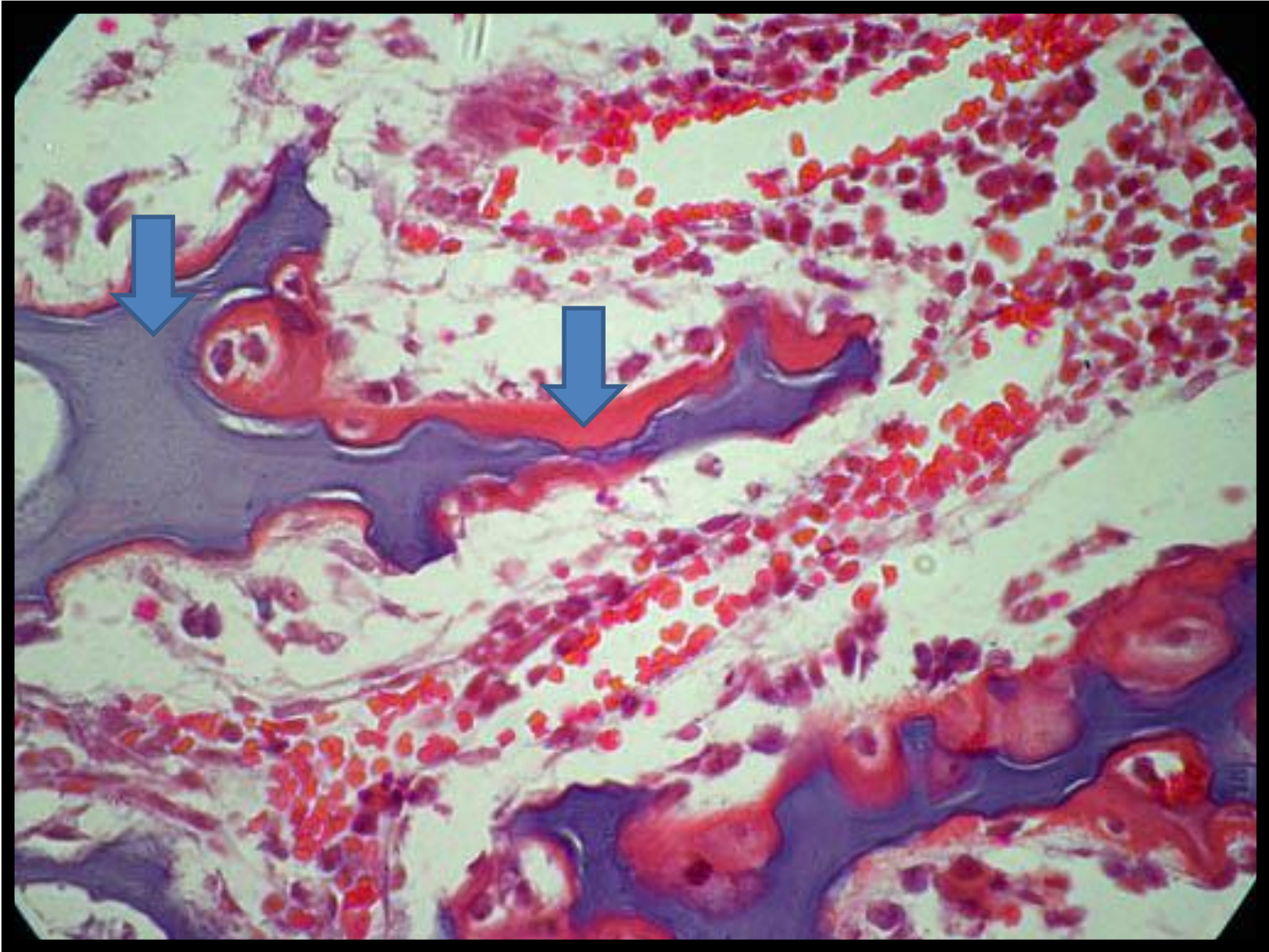
2

3

4

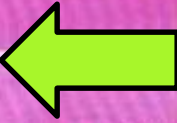
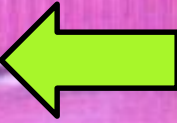
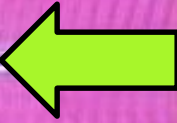
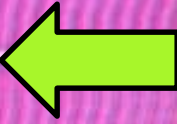
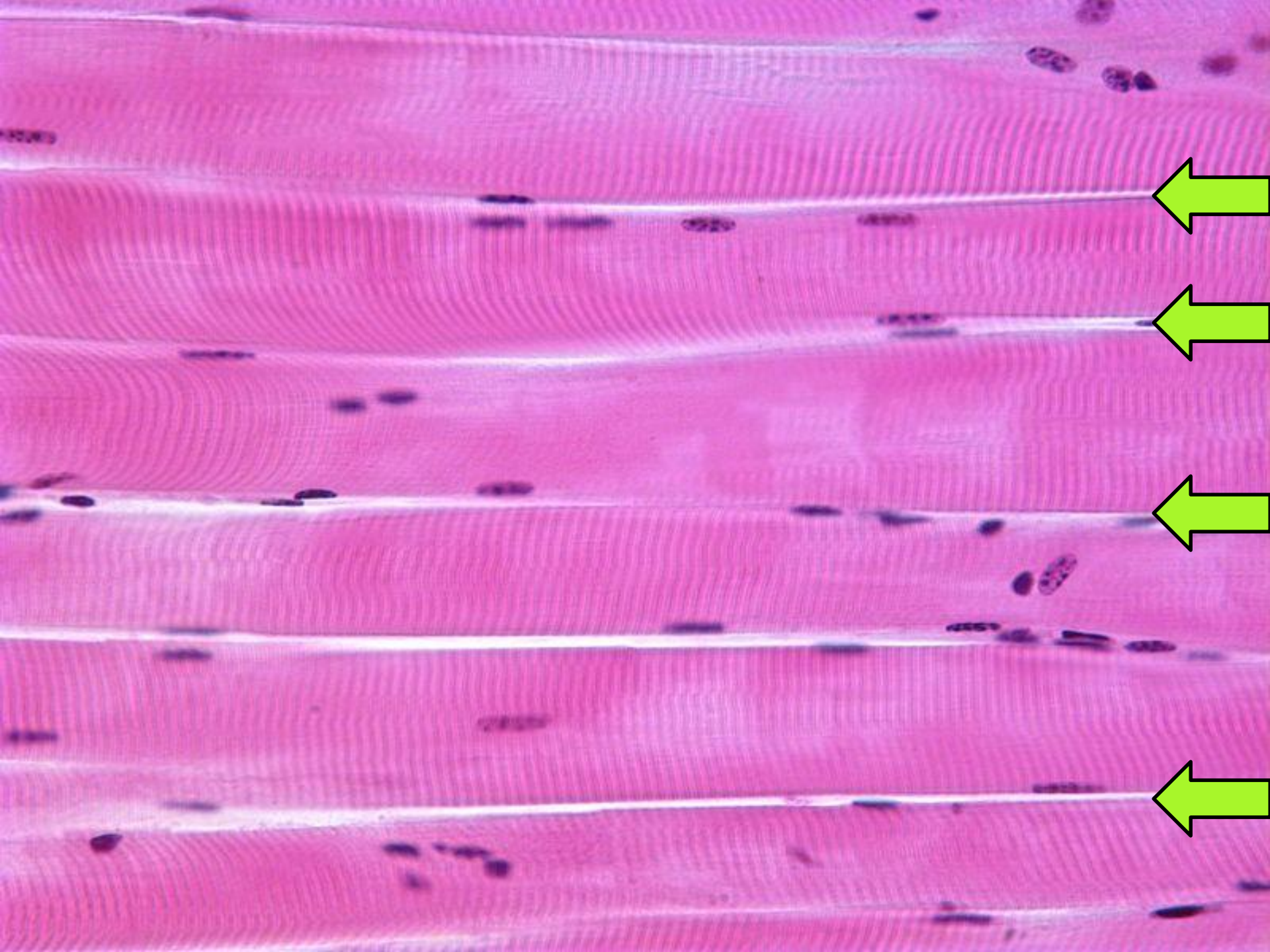
12.3X + - ← ↑ ↓ → ✓

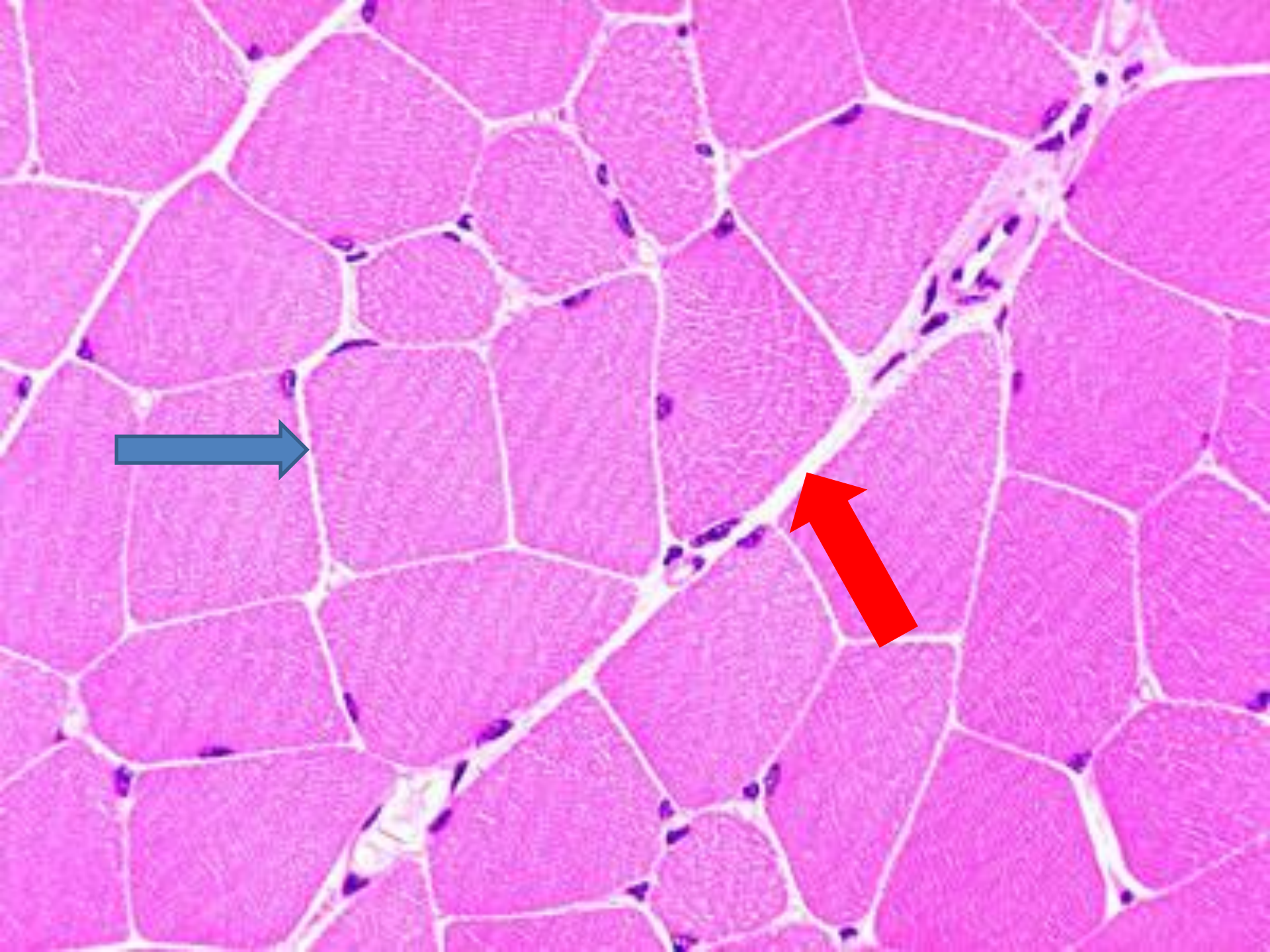
Ossification zone

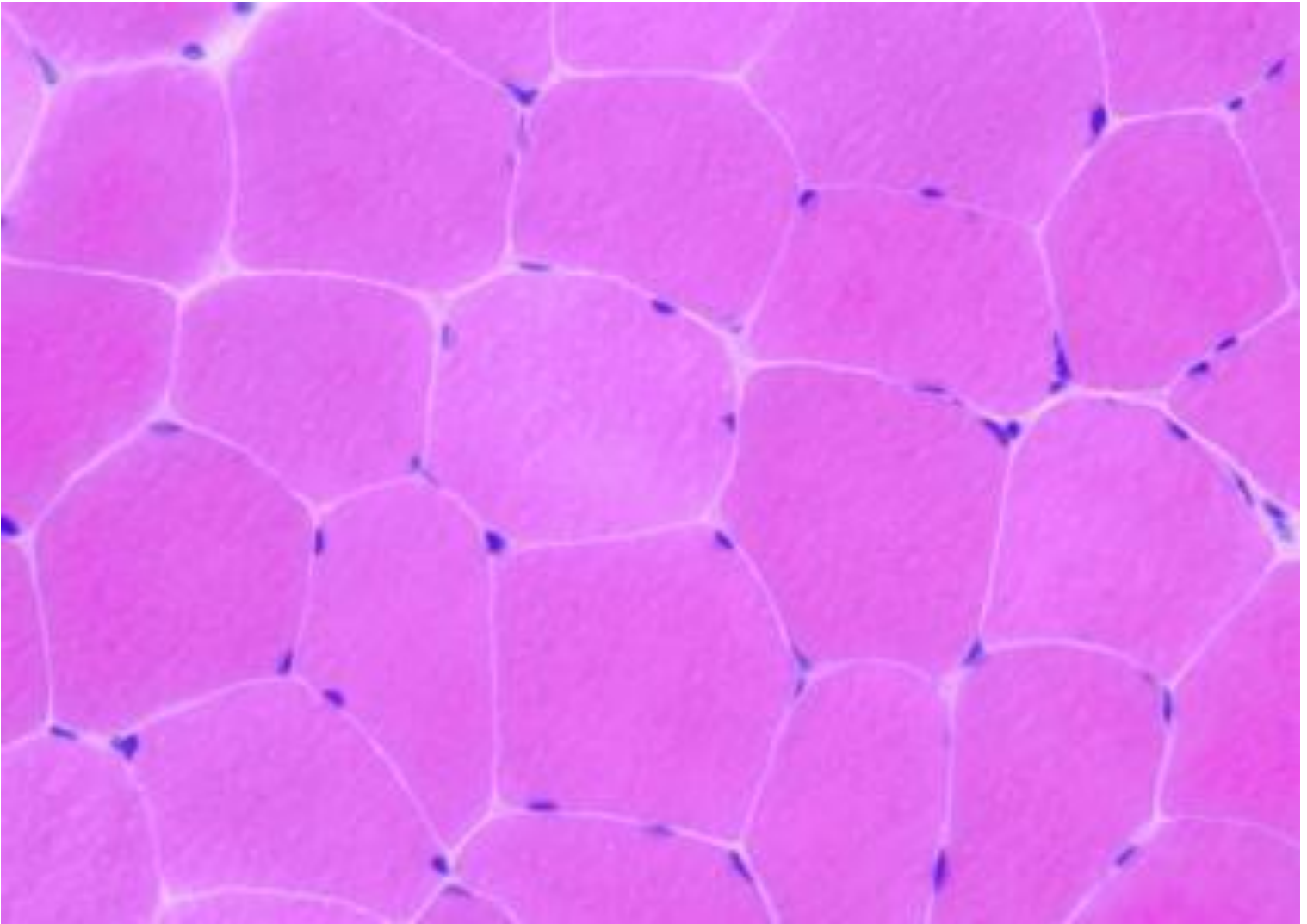


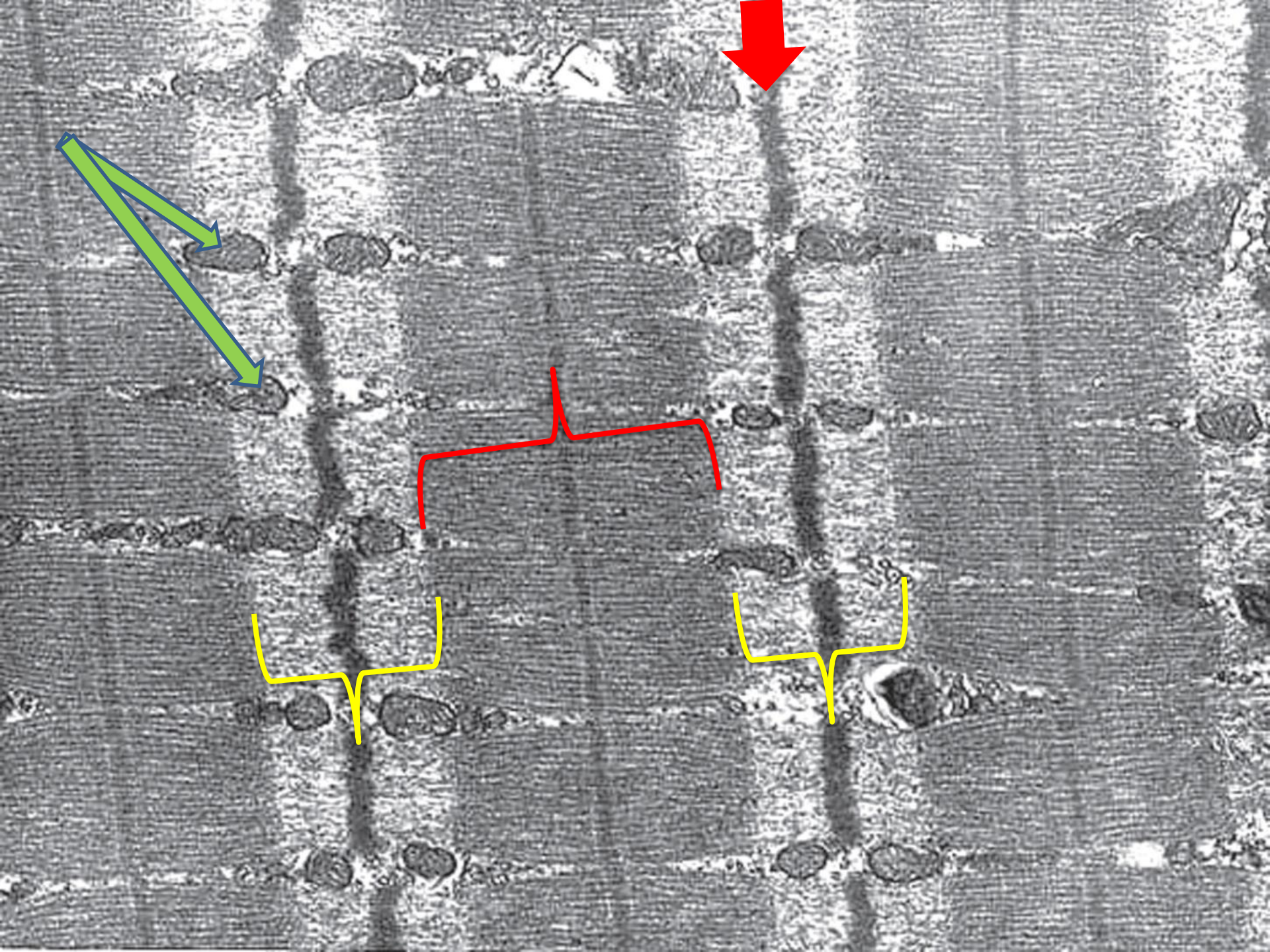
Muscle tissue

Skeletal muscle

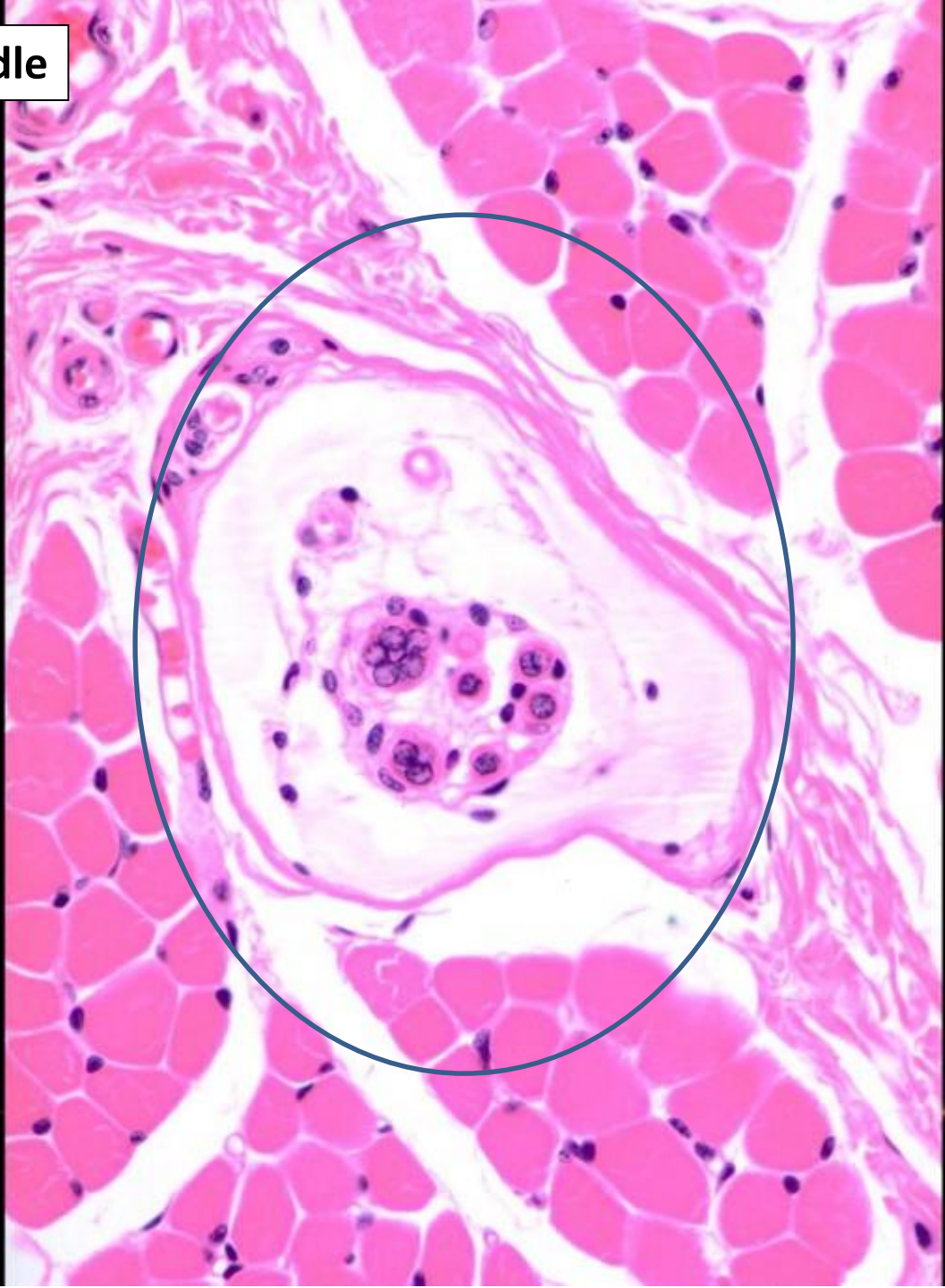


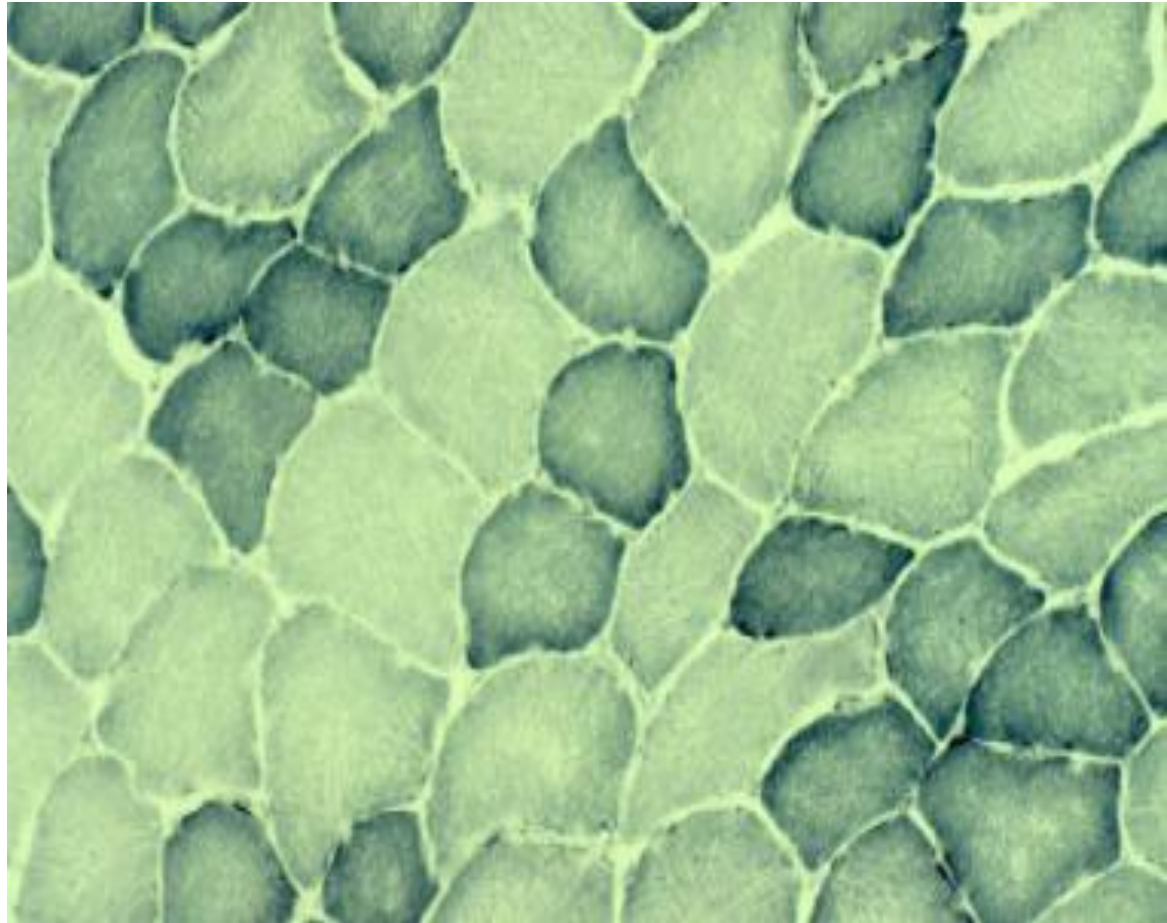




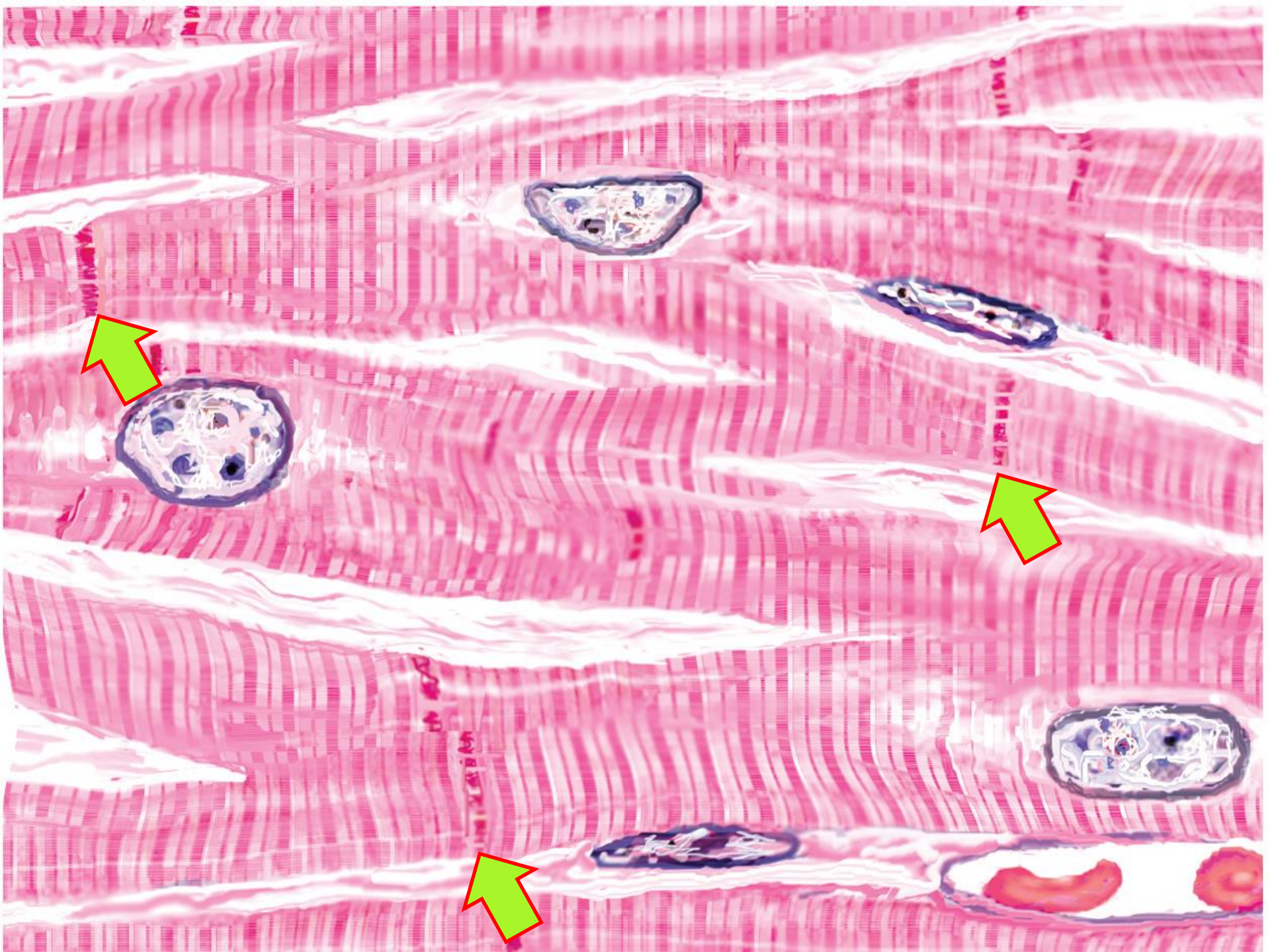


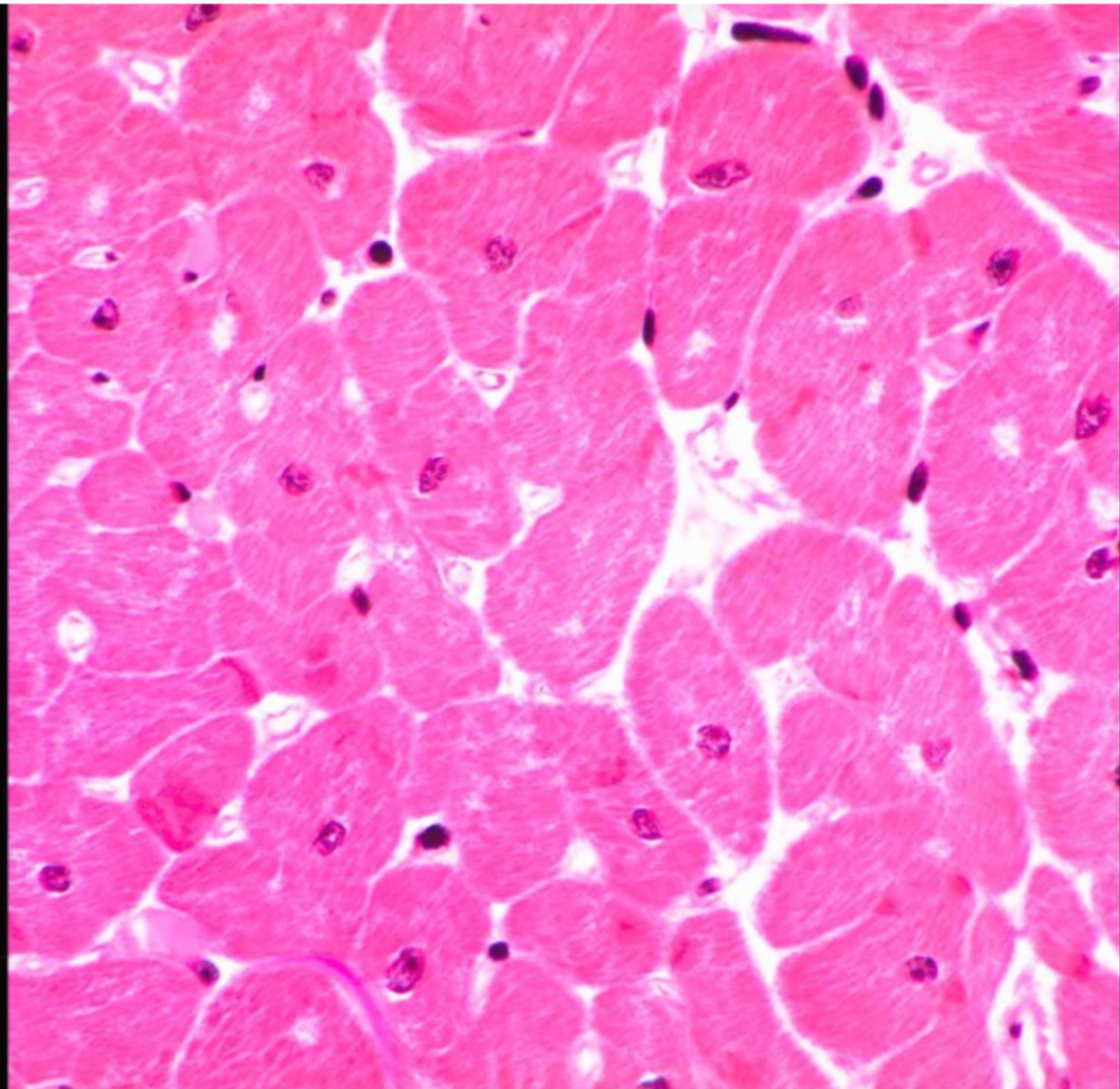
Muscle spindle

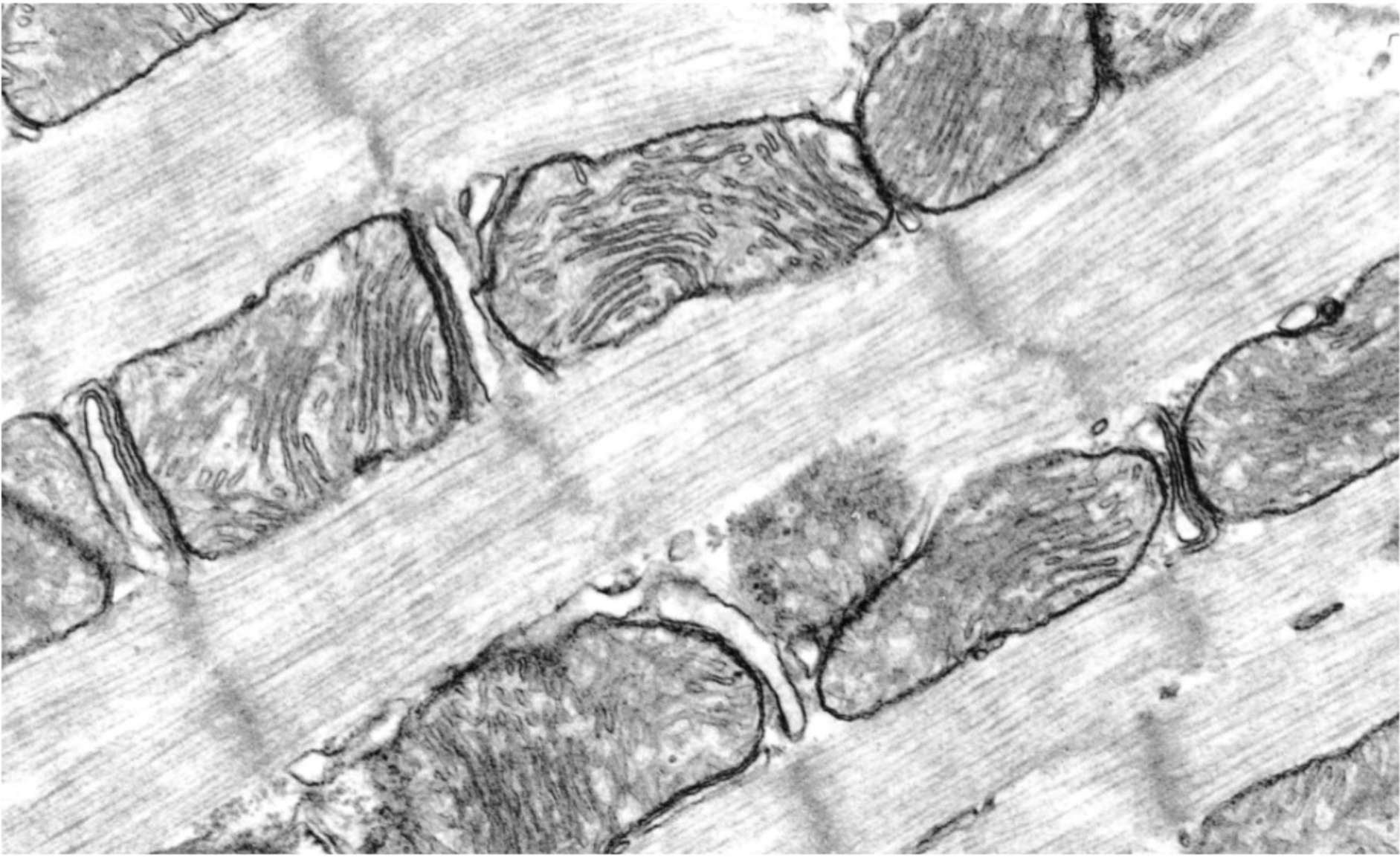




Cardiac muscle







Smooth muscle

