

M U N I M E D

Cartilage

Hyaline cartilage, elastic cartilage, and fibrocartilage

Chondrocytes

Extracellular matrix

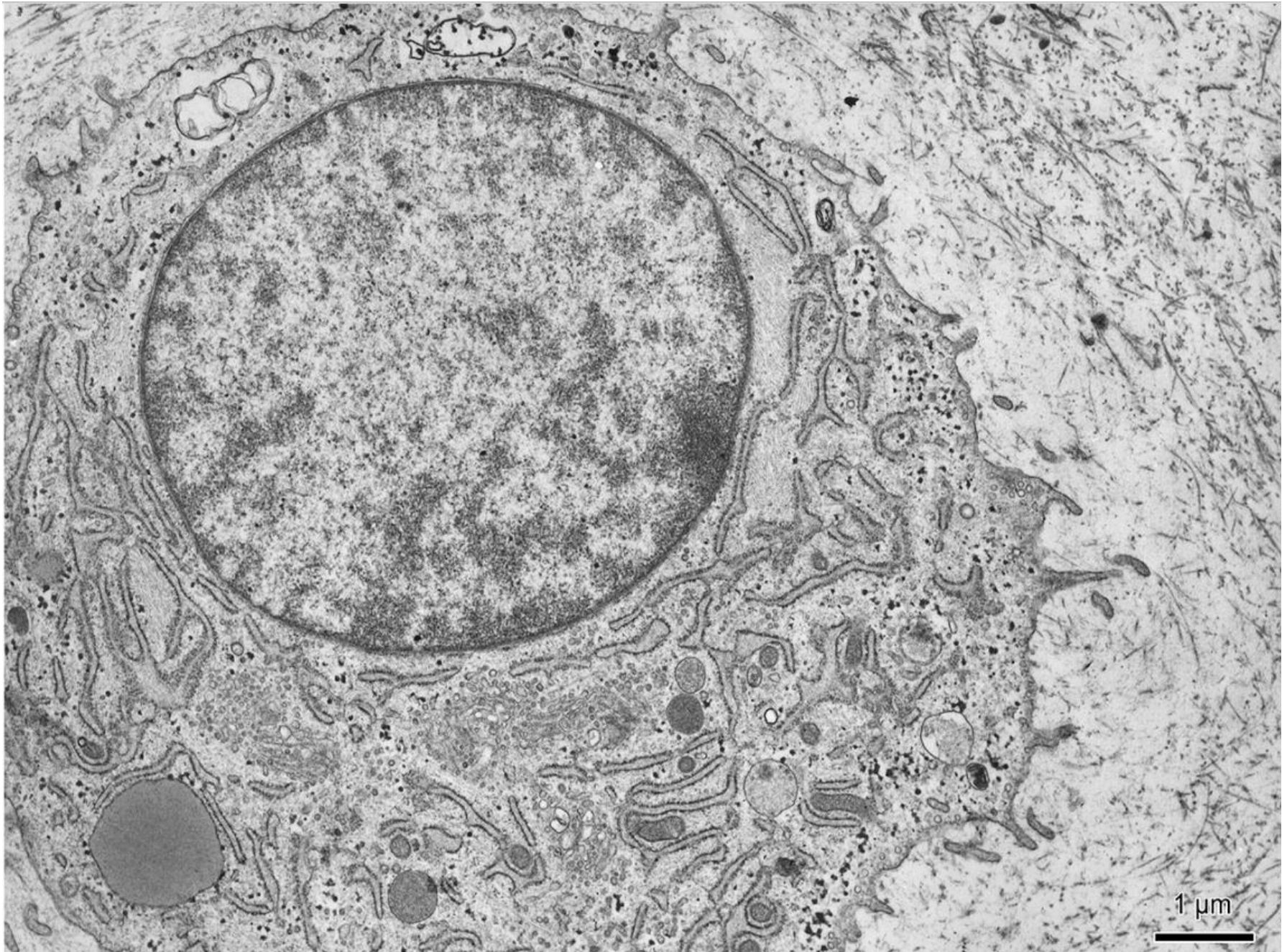
Bone

Bone fibrillar and lamellar (compact, spongy)

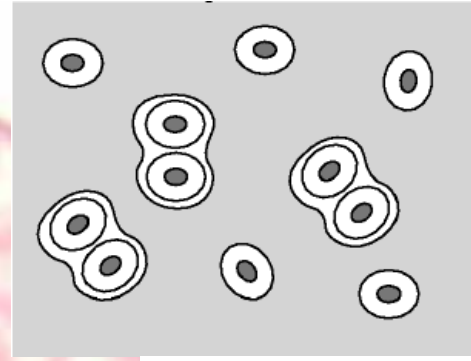
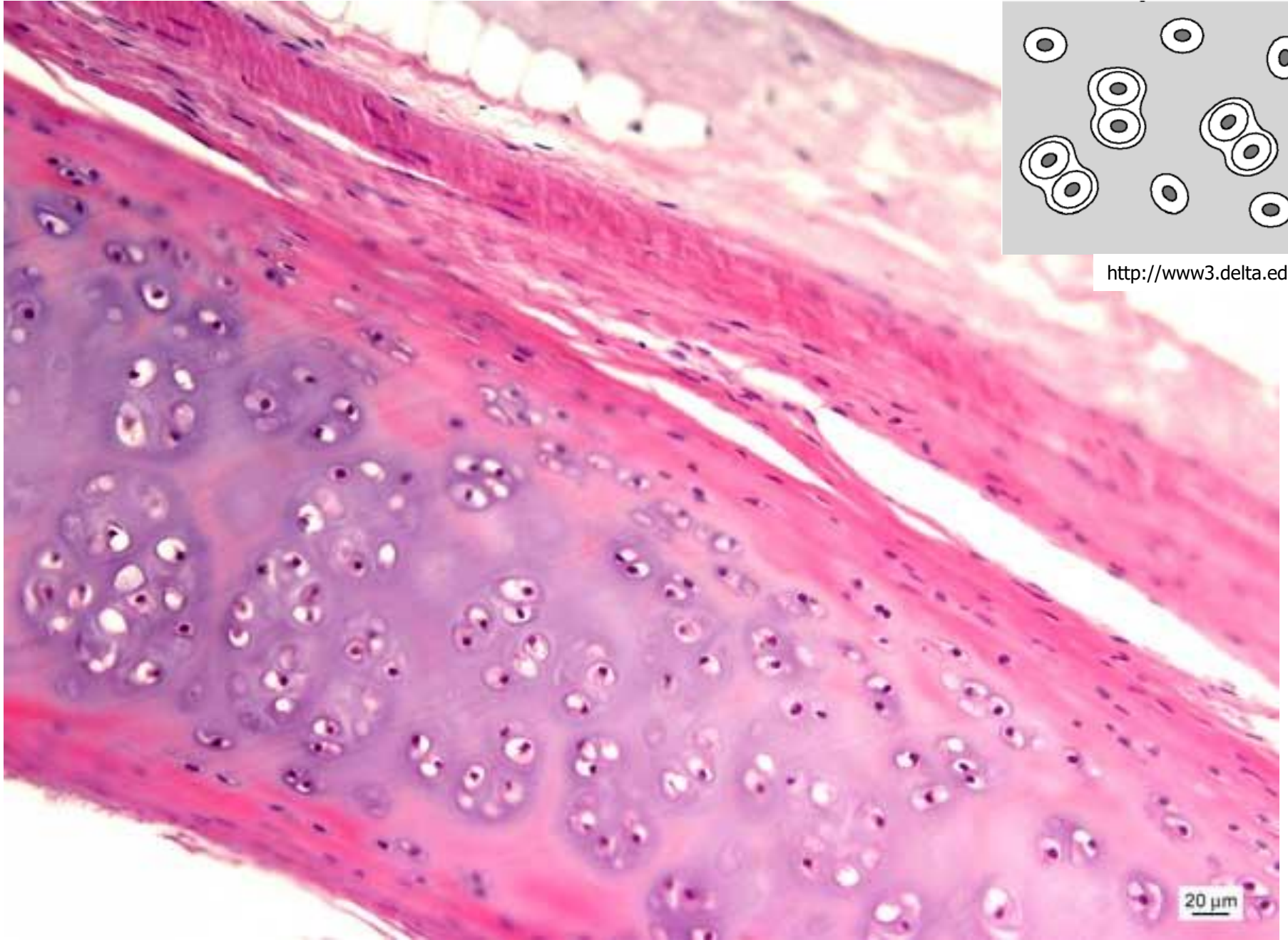
Osteocytes, osteoblasts, osteoclasts, osteoprogenitors

Extracellular matrix (mineralization)

Chondrocyte



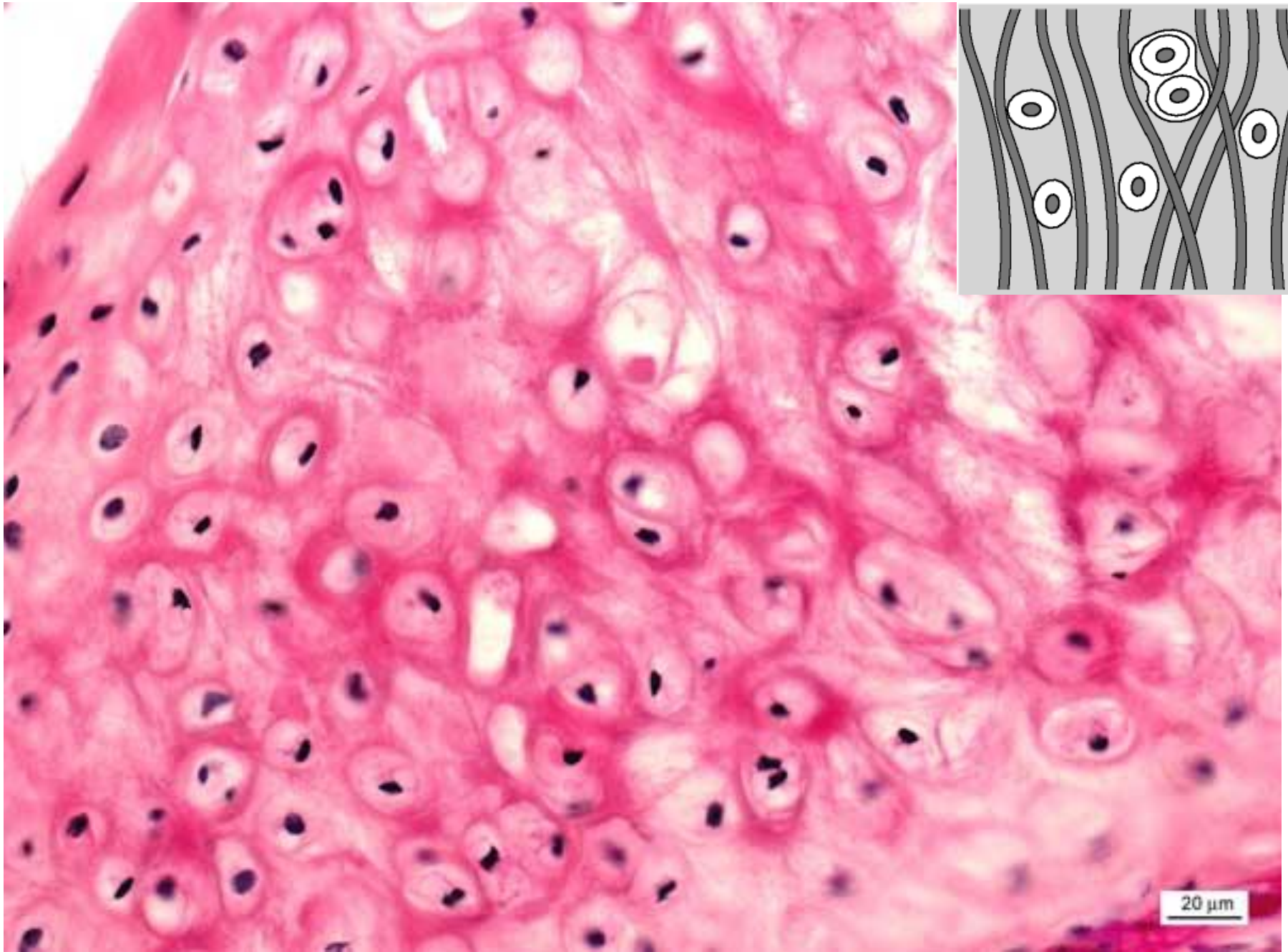
Hyaline cartilage - trachea (HE)



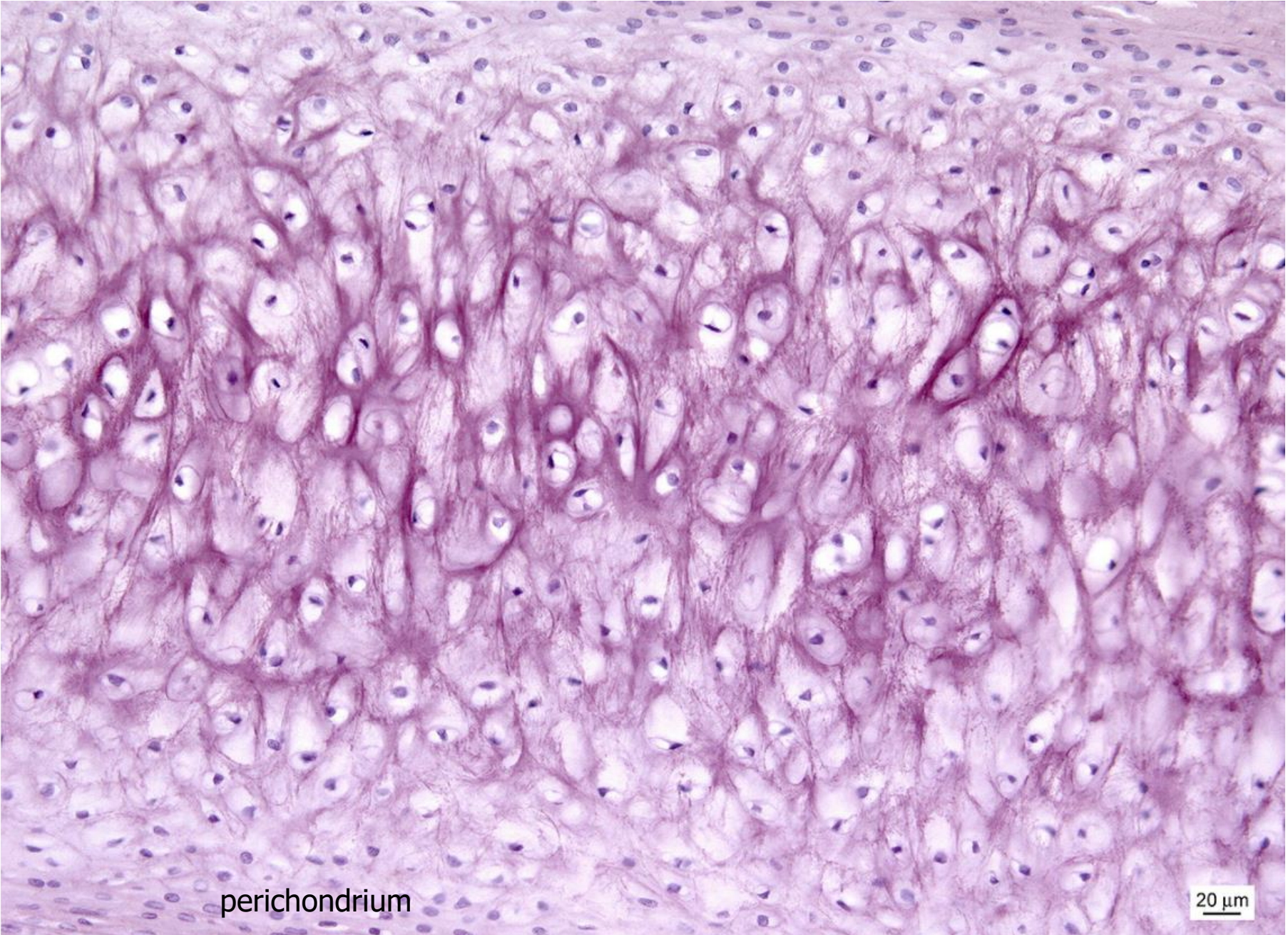
<http://www3.delta.edu/>

20 µm

Elastic cartilage – auricula (HE)



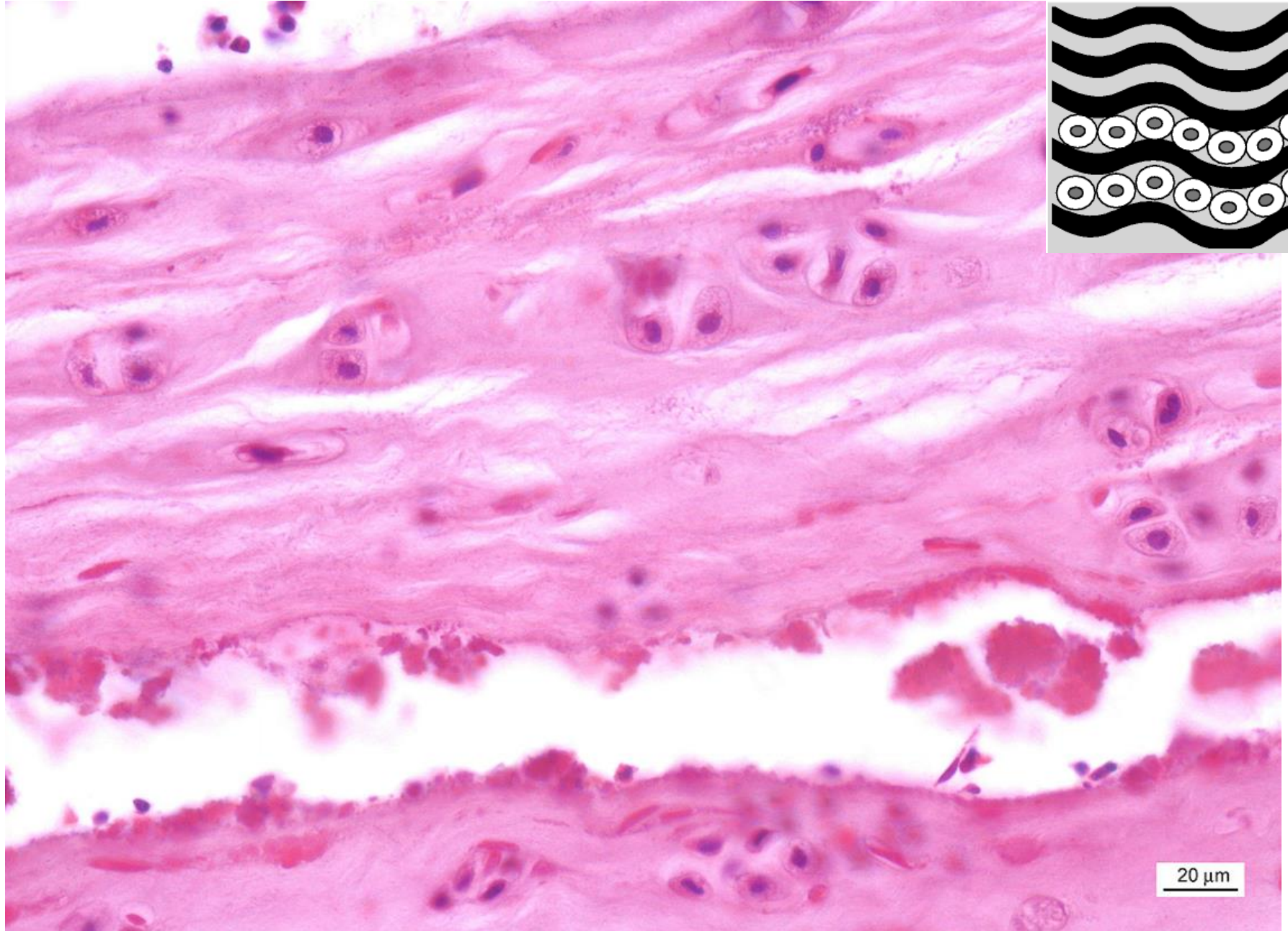
Elastic cartilage – elastic fibers (aldehyde fuchsin)



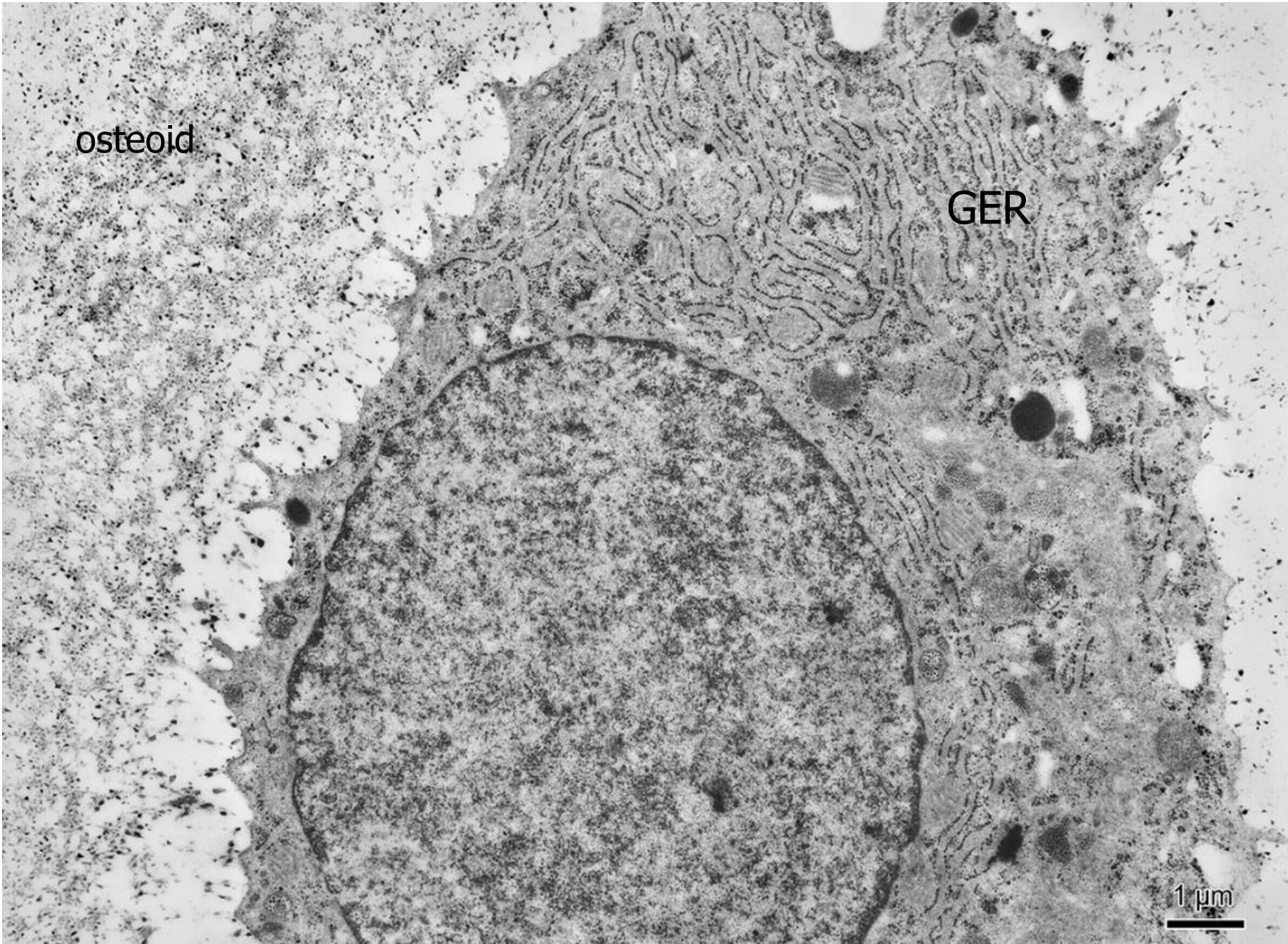
perichondrium

20 μ m

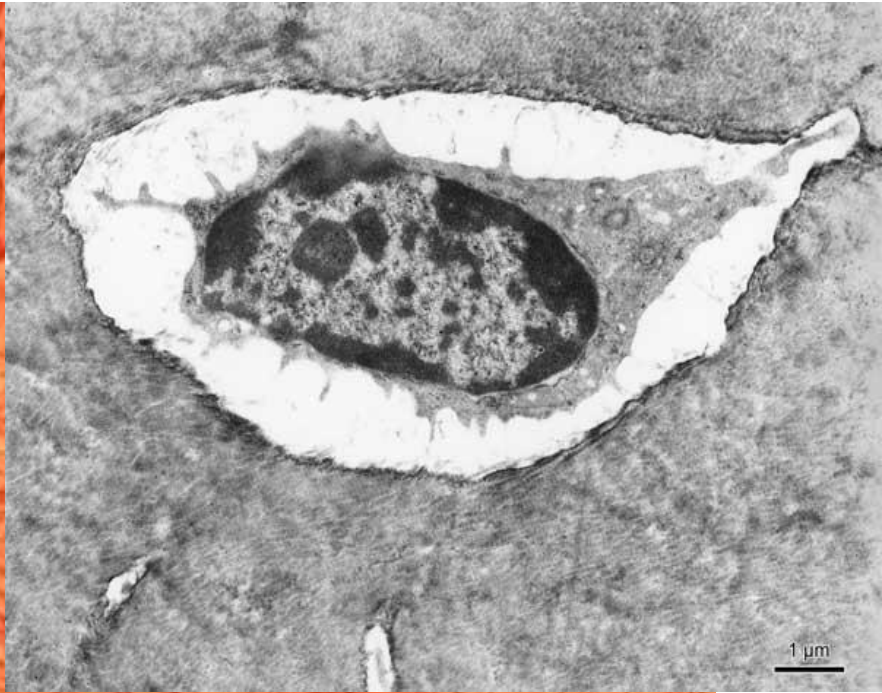
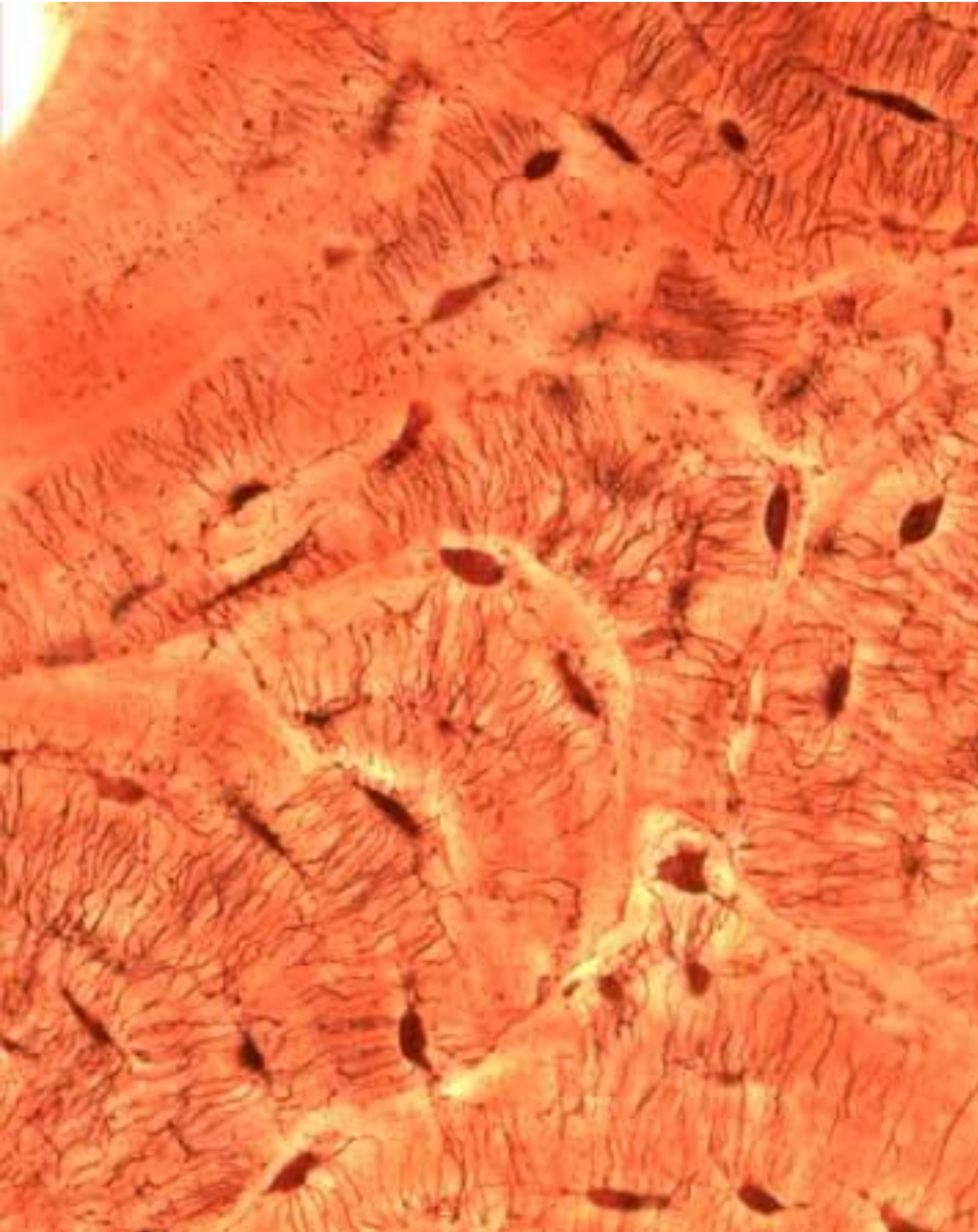
Fibrocartilage – intervertebral disc (HE)



Osteoblast



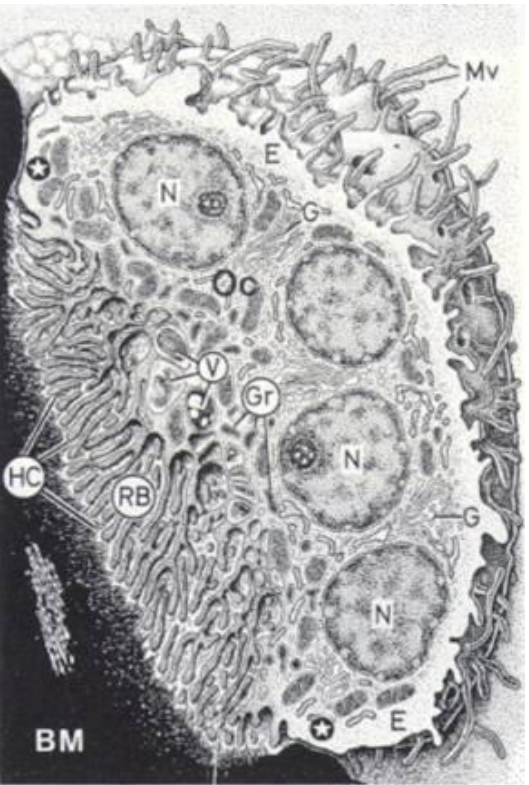
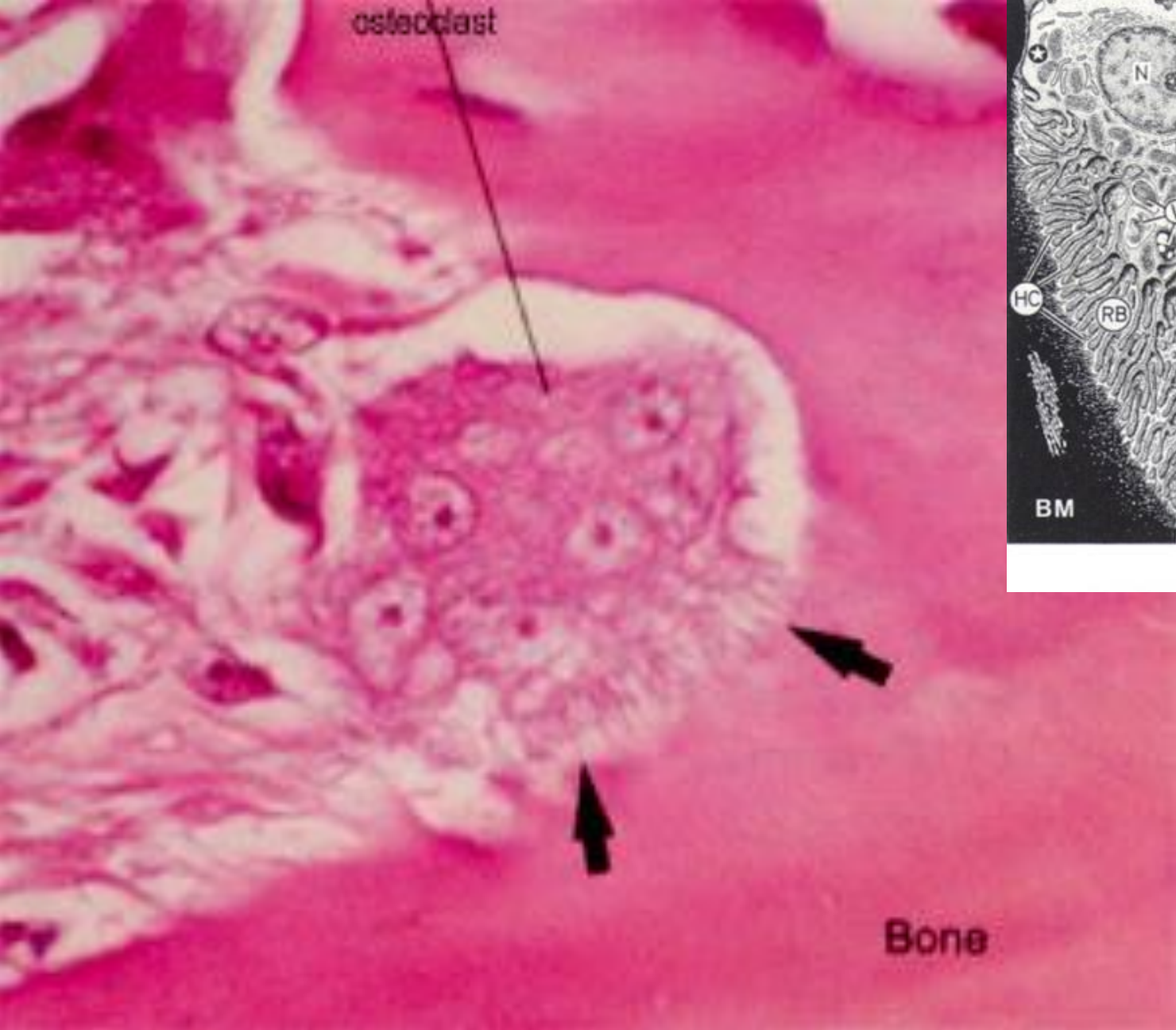
Osteocyte



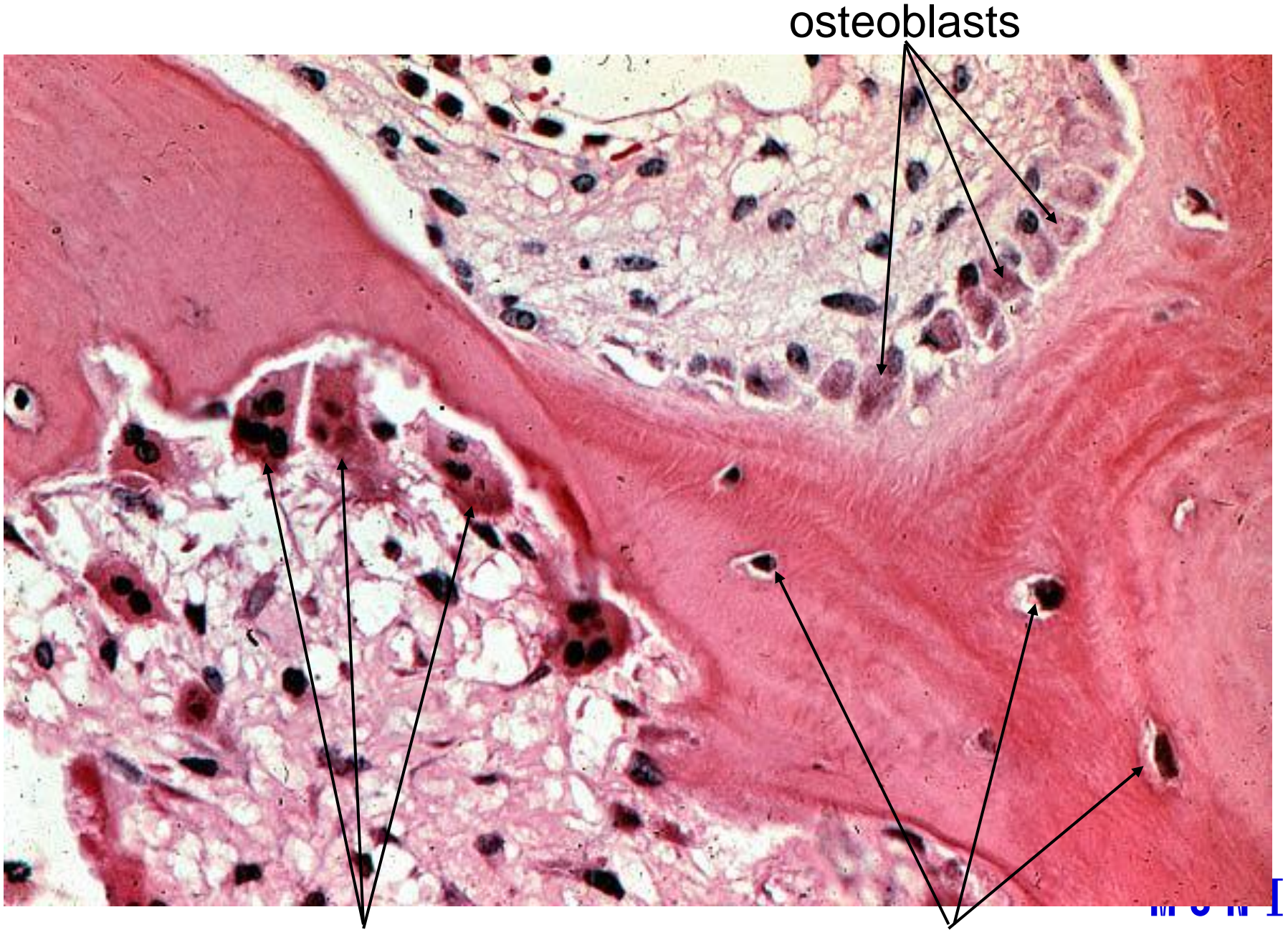
20 μm

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Osteoclast



www.studyblue.com

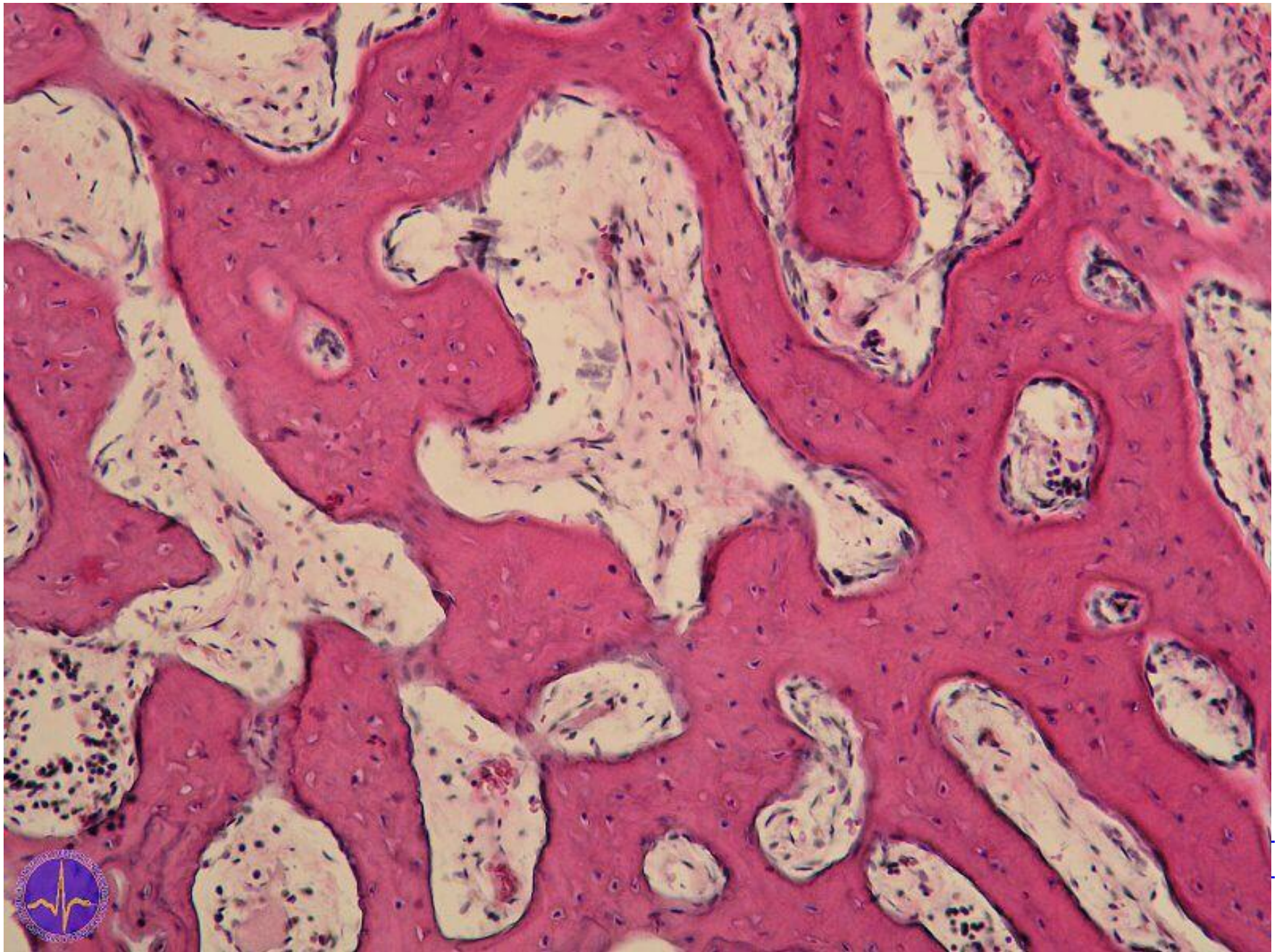


osteoblasts

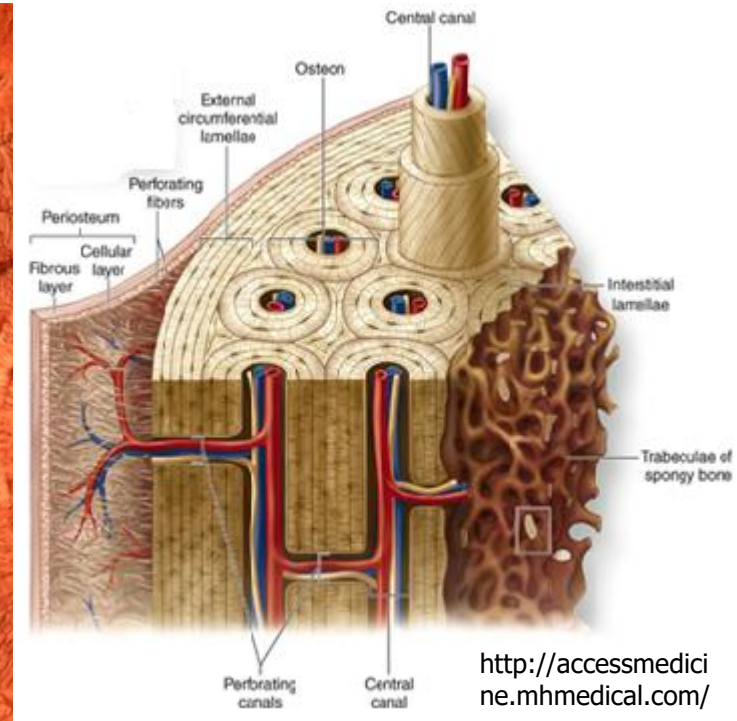
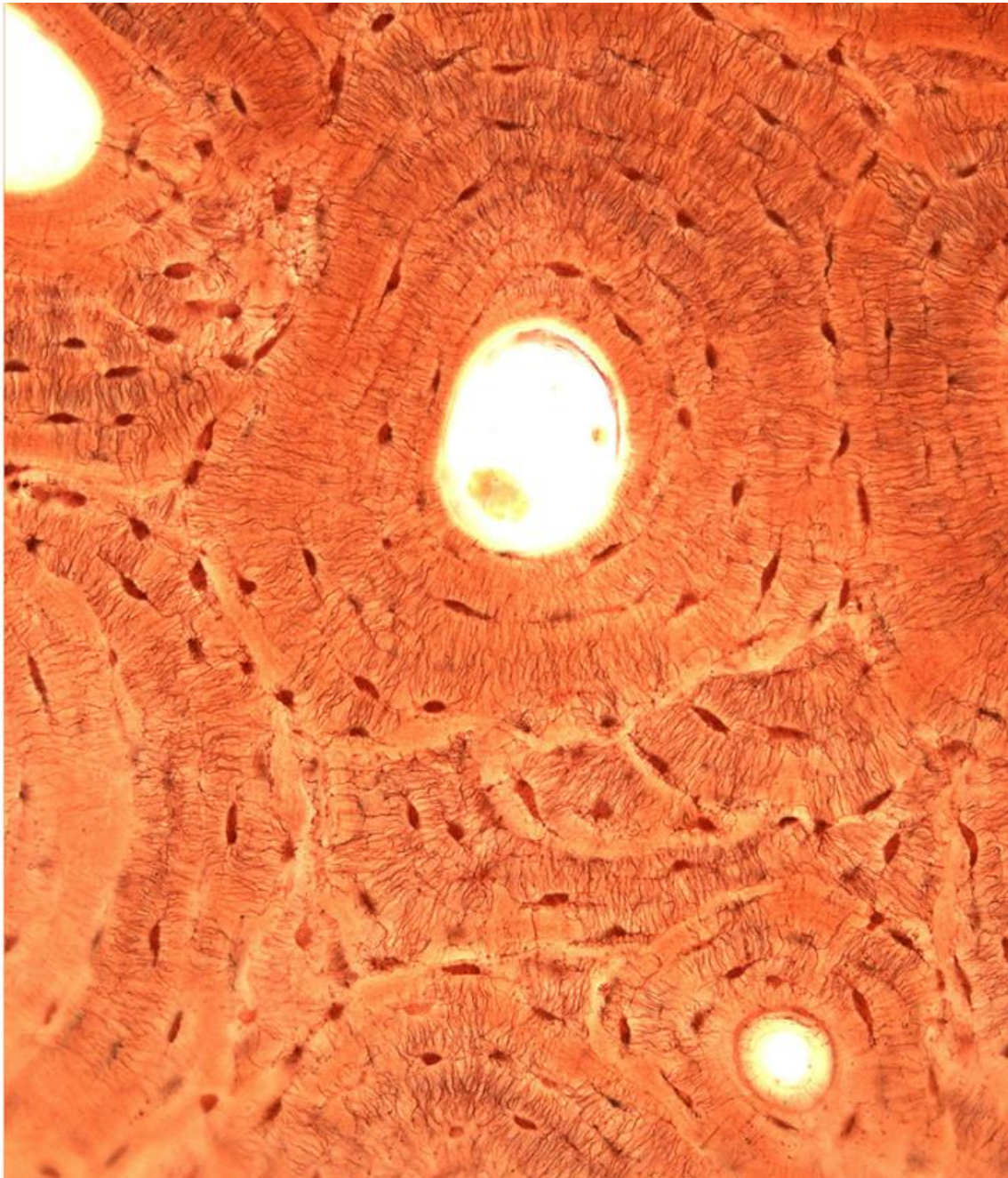
osteoclasts

osteocytes

Fibrillar bone tissue

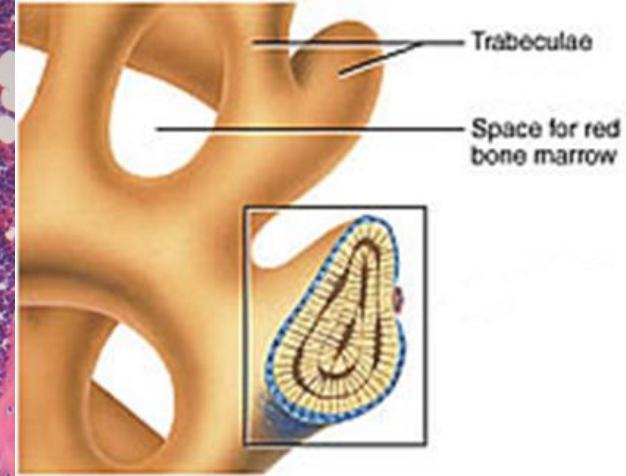
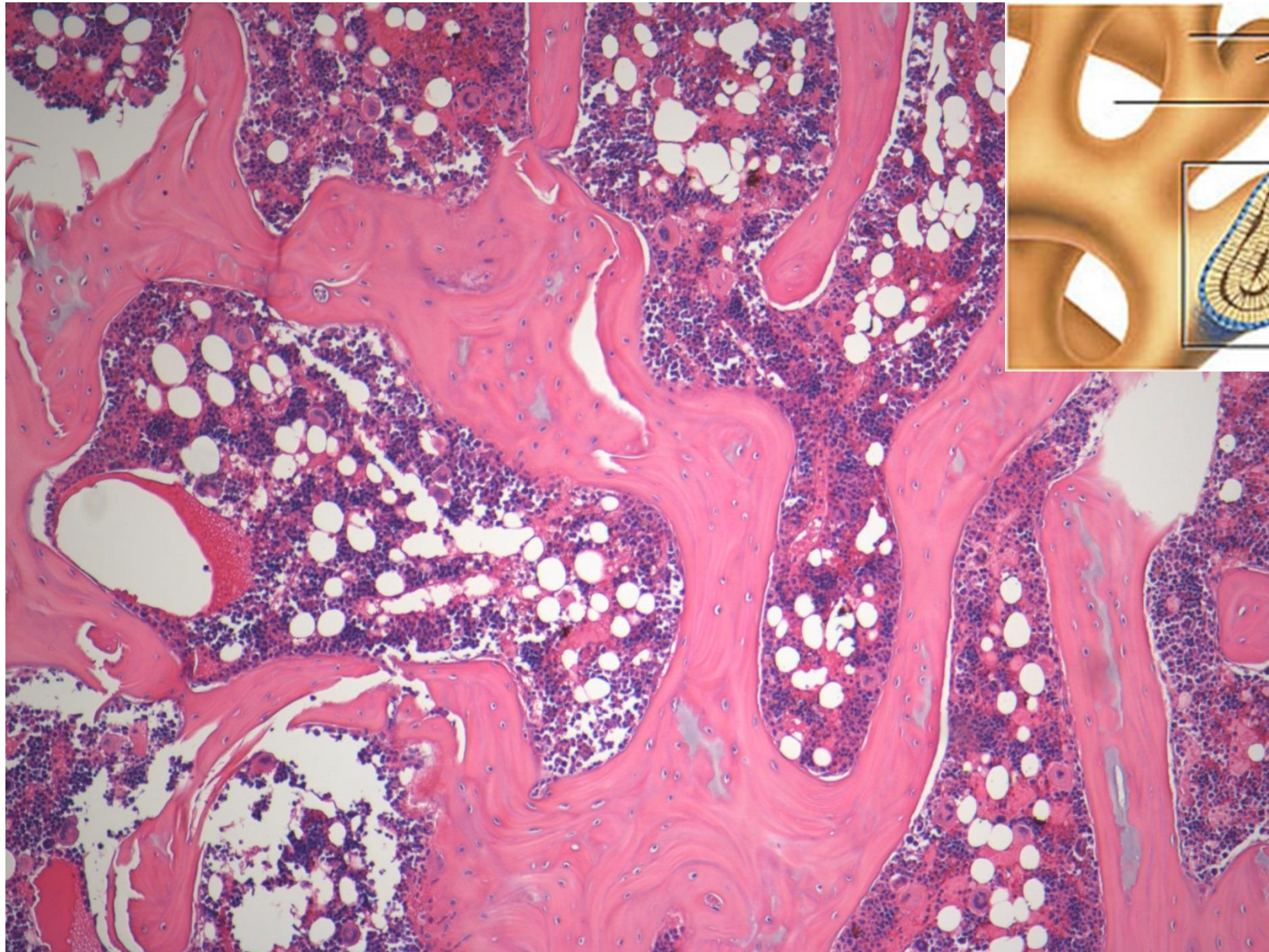


Lamellar bone tissue compact (Schmorl)



20 μ m

Lamellar bone tissue spongy (HE)

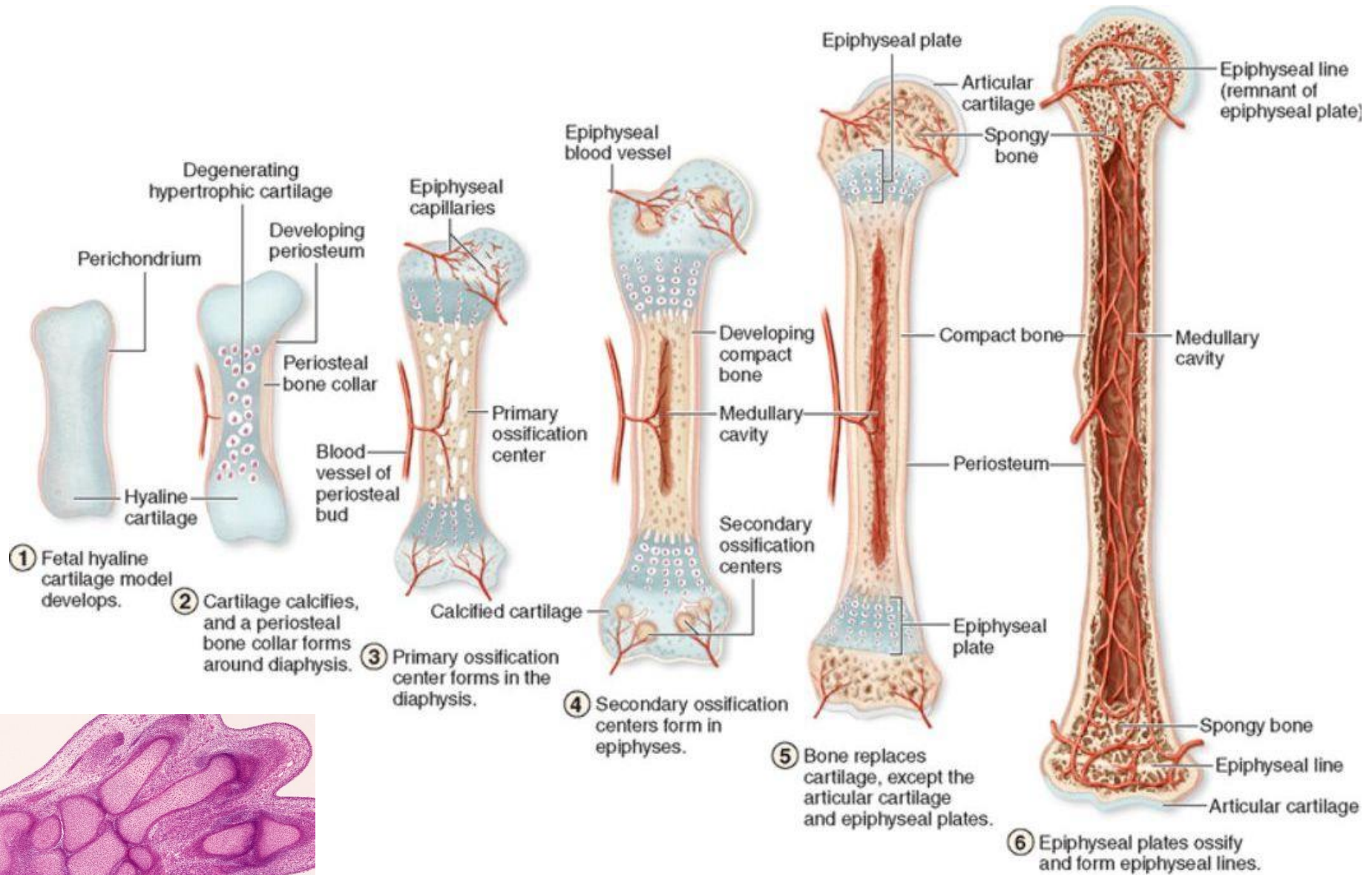


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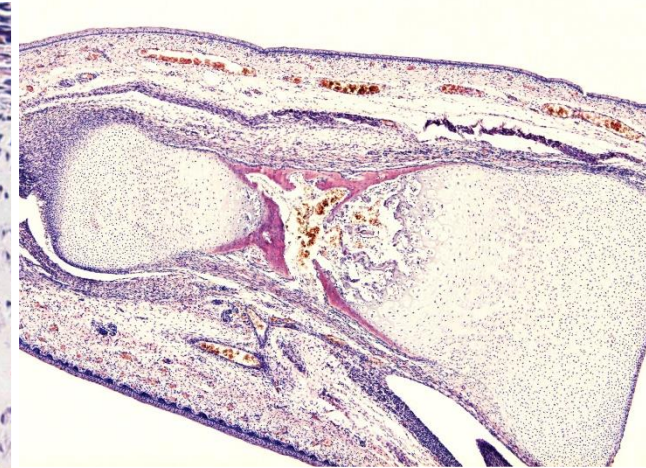
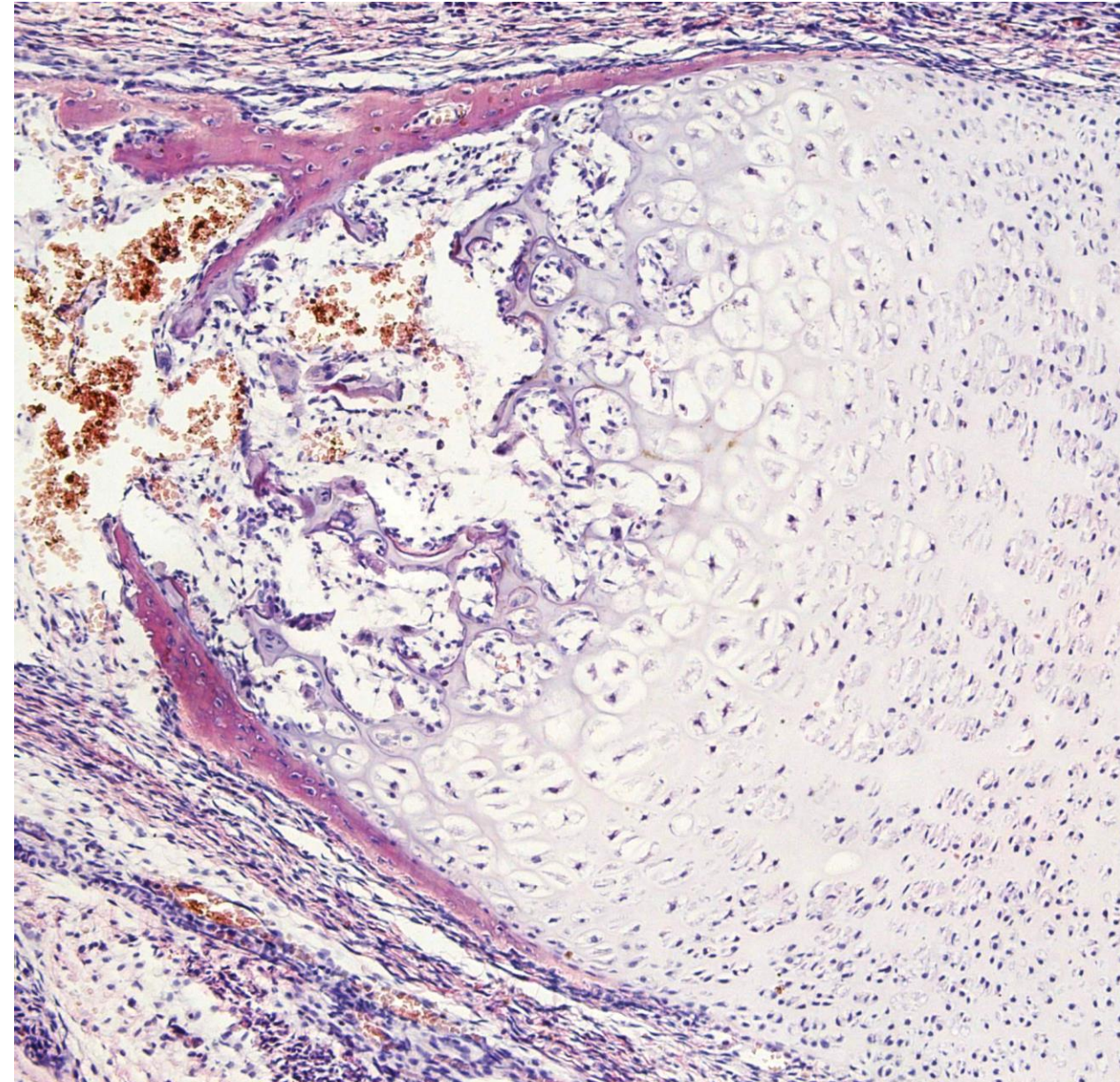
imgkid.com

Endochondral ossification

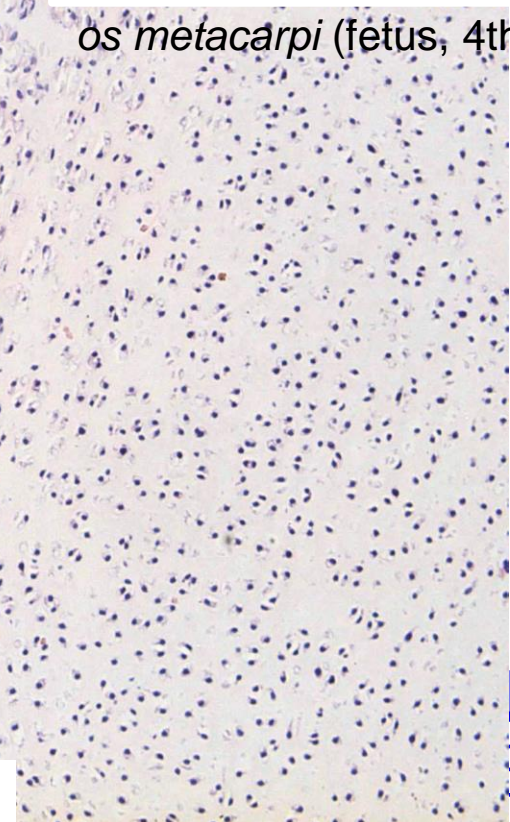


hand, *fetus*, 8th week, model of hyaline cartilage (HE)

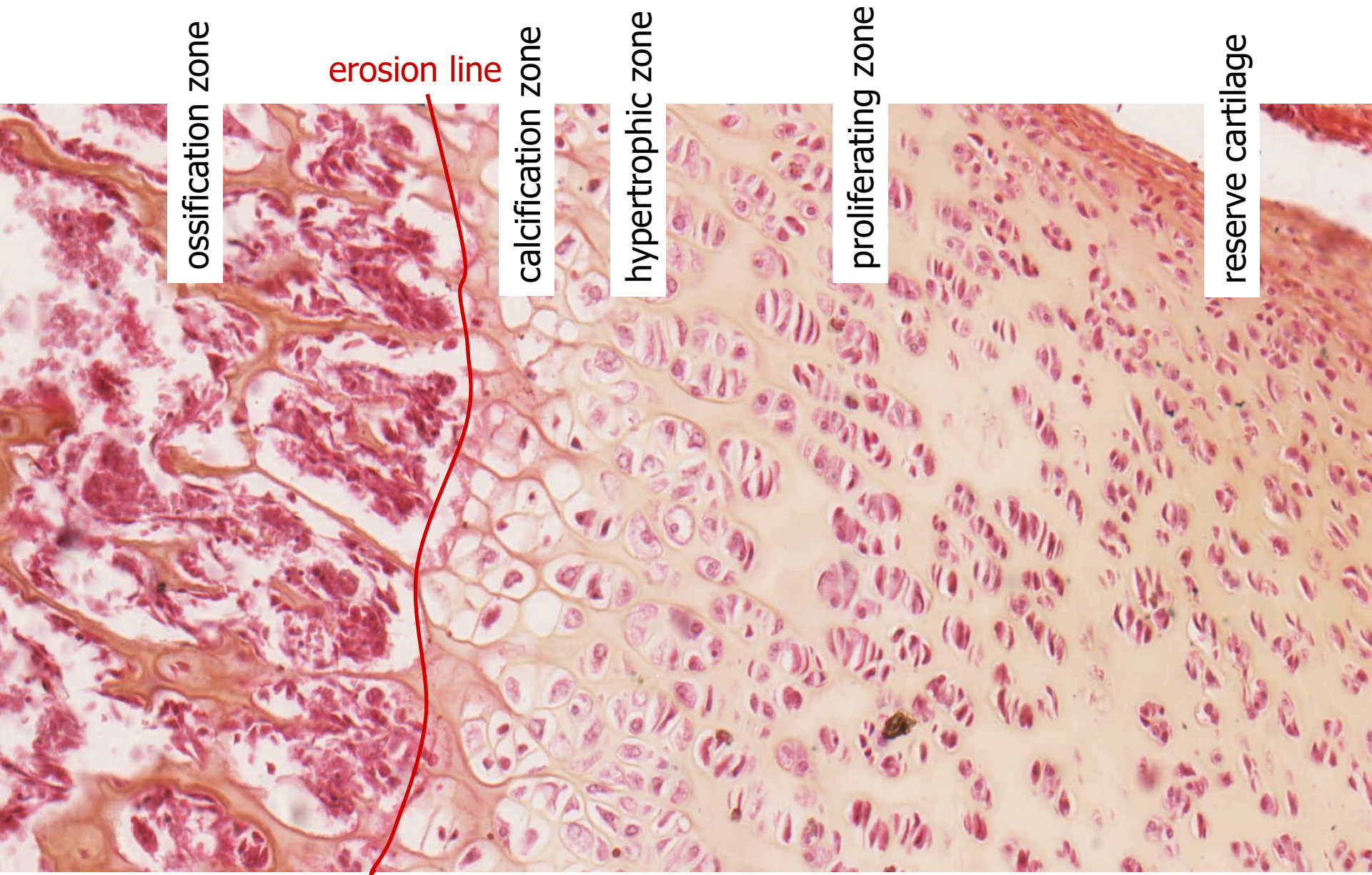
Endochondral ossification (HE)



os metacarpi (fetus, 4th month)



Endochondral ossification (HES)



CONNECTIVE TISSUE II – cartilage and bone

Slides:

Hyaline cartilage (27. Trachea)

Elastic cartilage (94. Auricula, 28. Elastic cartilage - orcein)

Lamellar bone (95. Bone – HE or Schmorl)

Endochondral ossification (96.)

Atlas EM:

pages 38 - 41