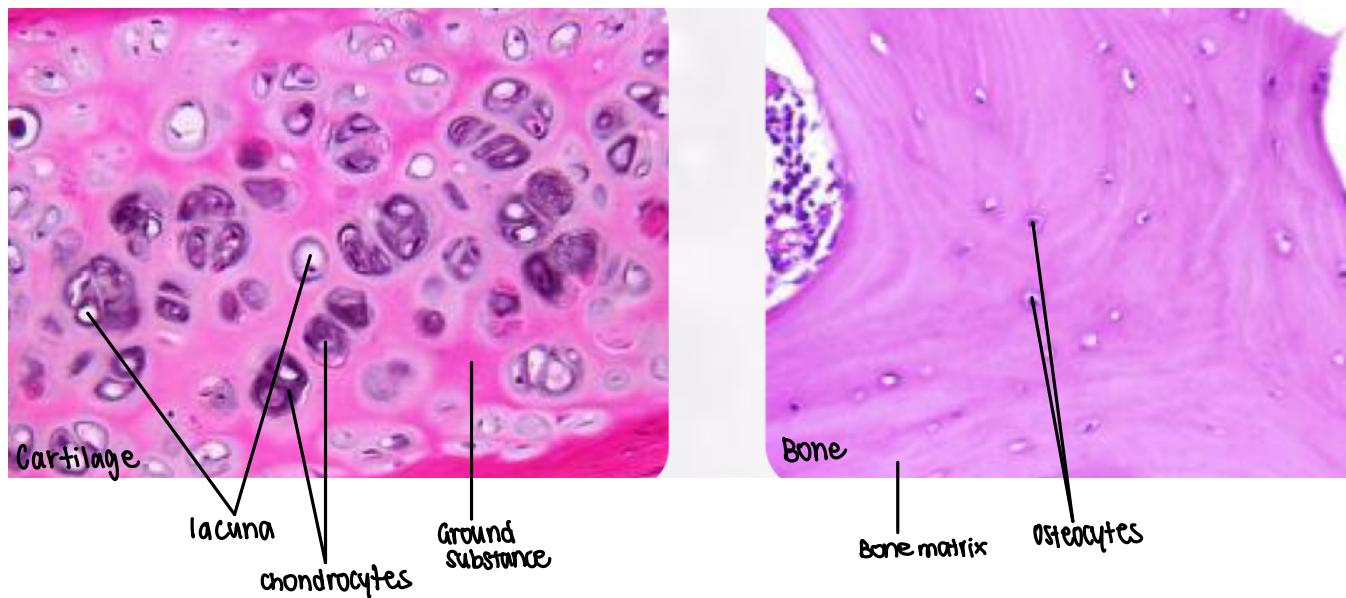
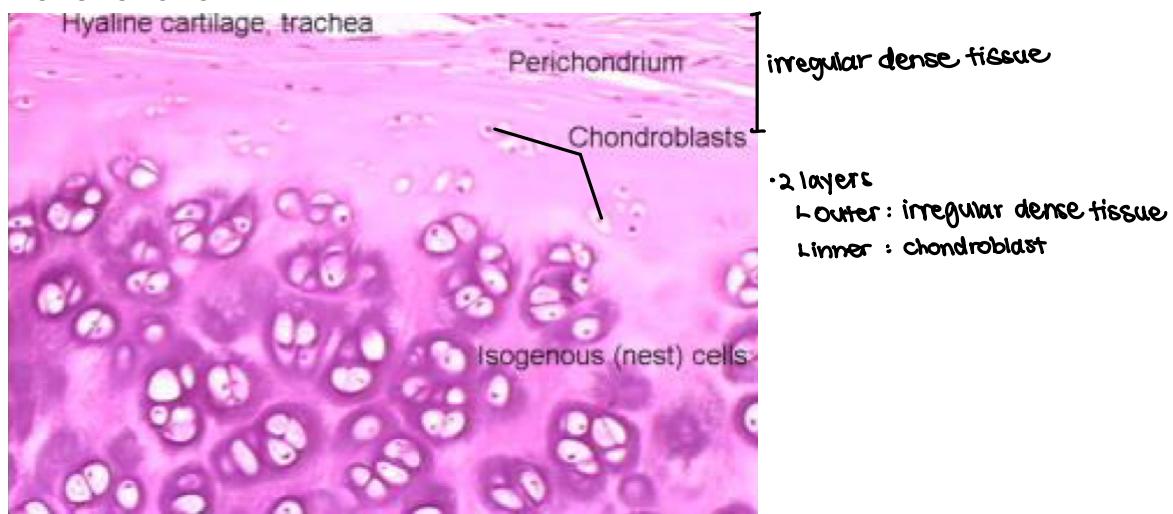


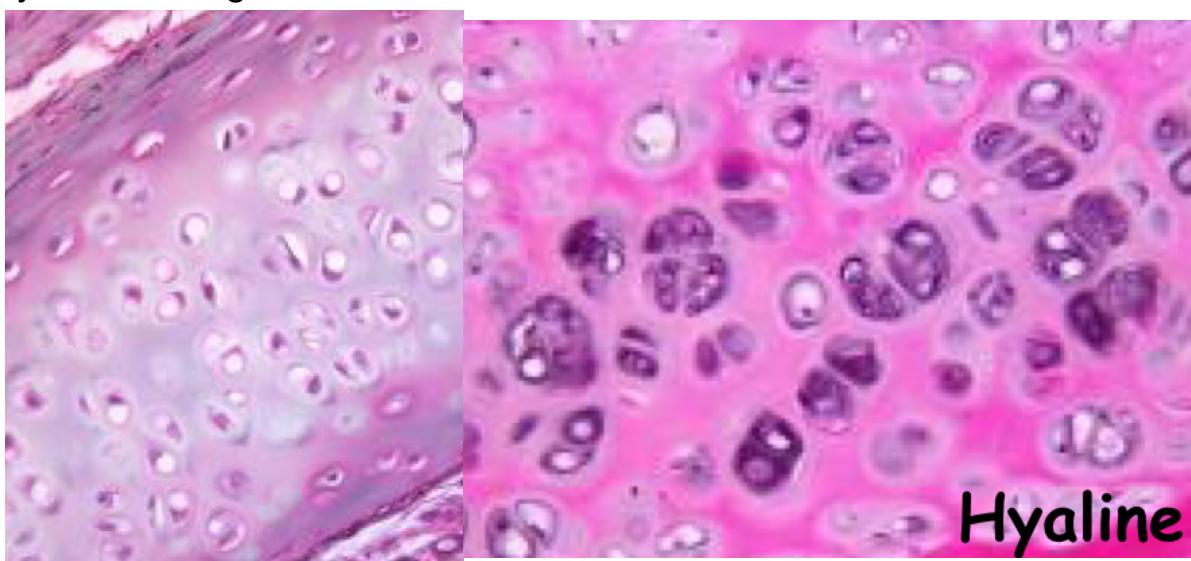
Cartilage and Bone



Perichondrium

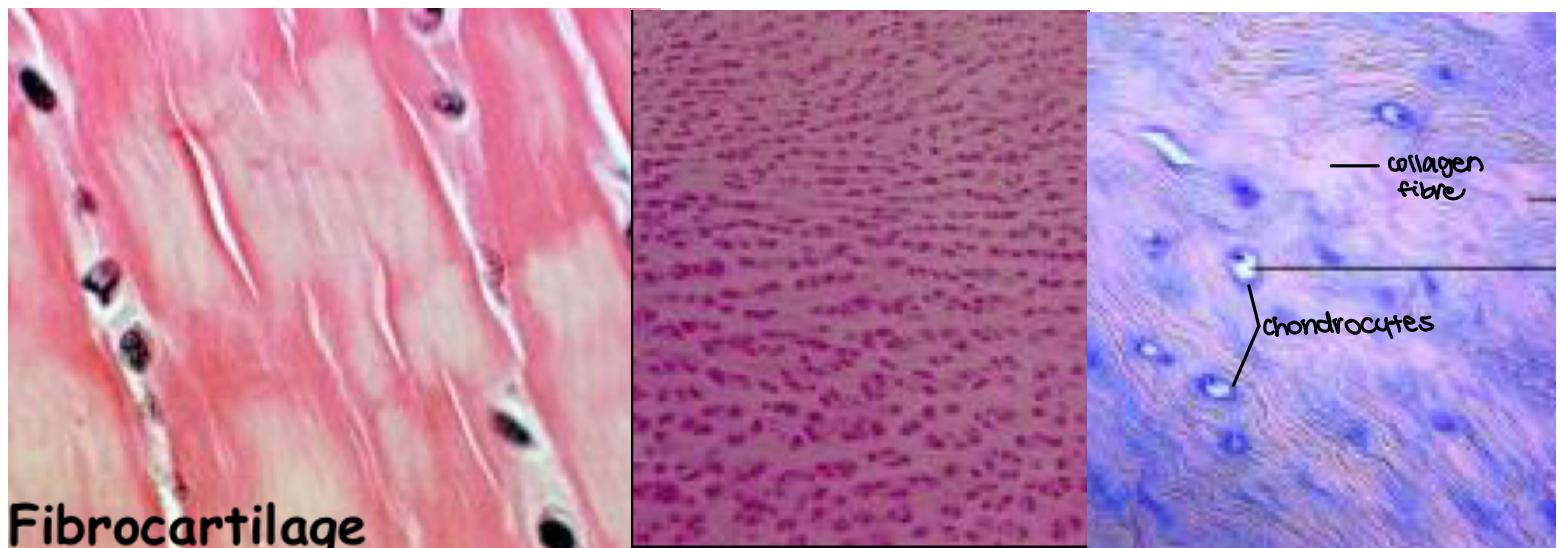


Hyaline Cartilage



- Closely-packed collagen fibres
- Glassy, shiny look

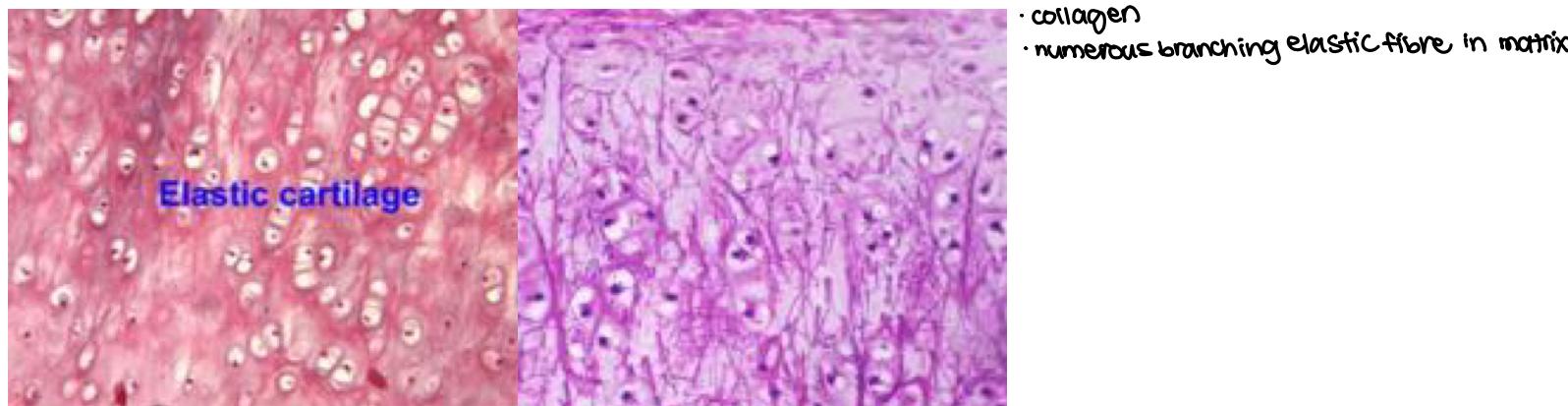
Fibrocartilage



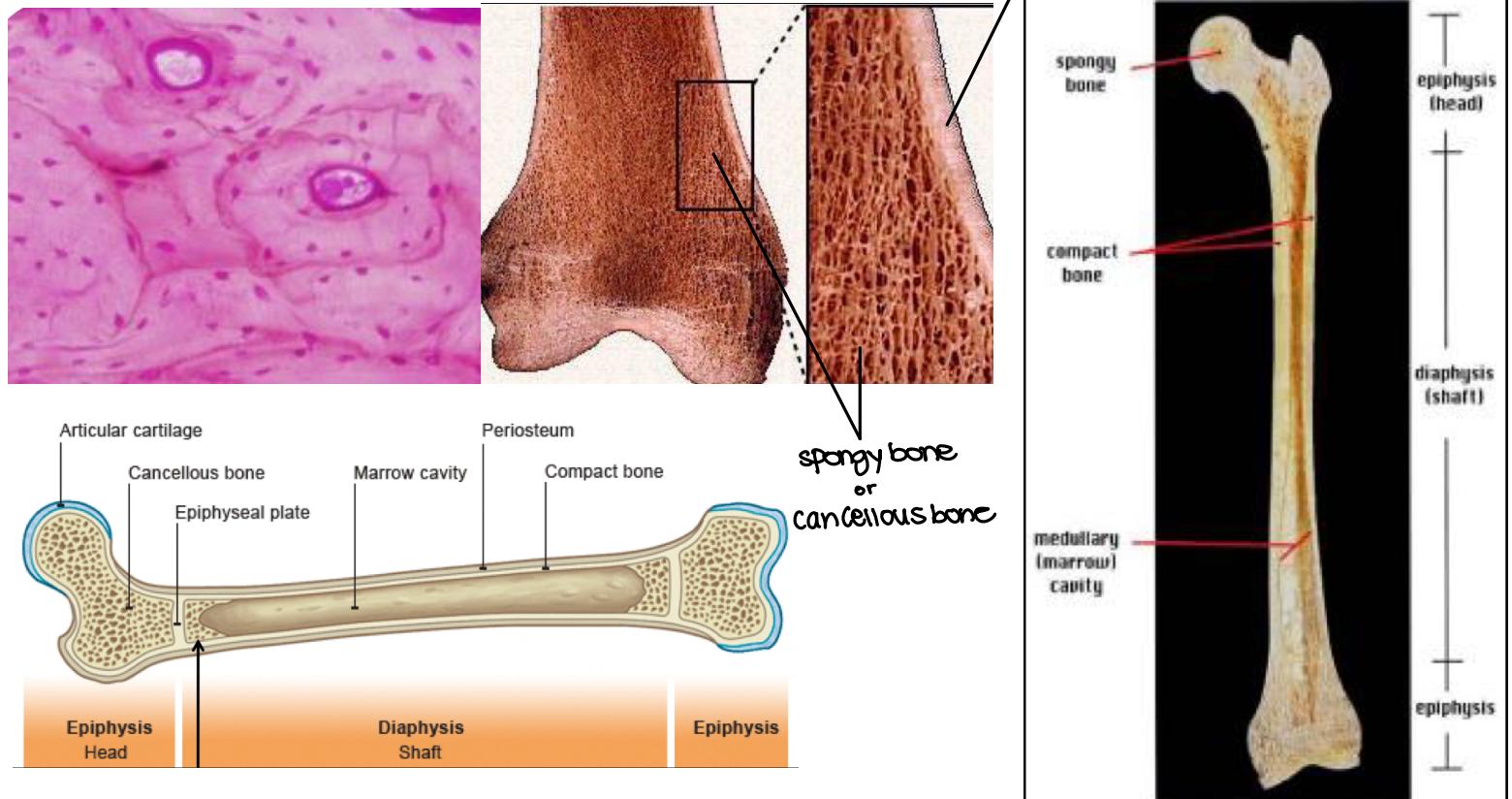
Fibrocartilage

- chondrocytes aligned in rows between interwoven fibres

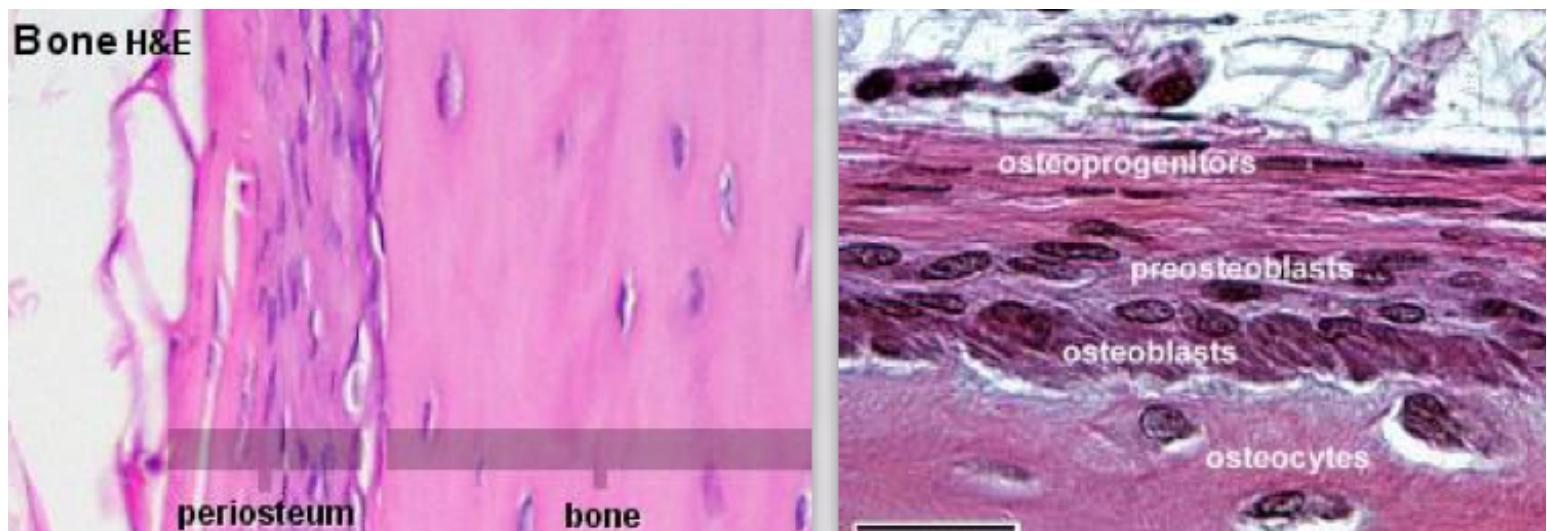
Elastic Cartilage



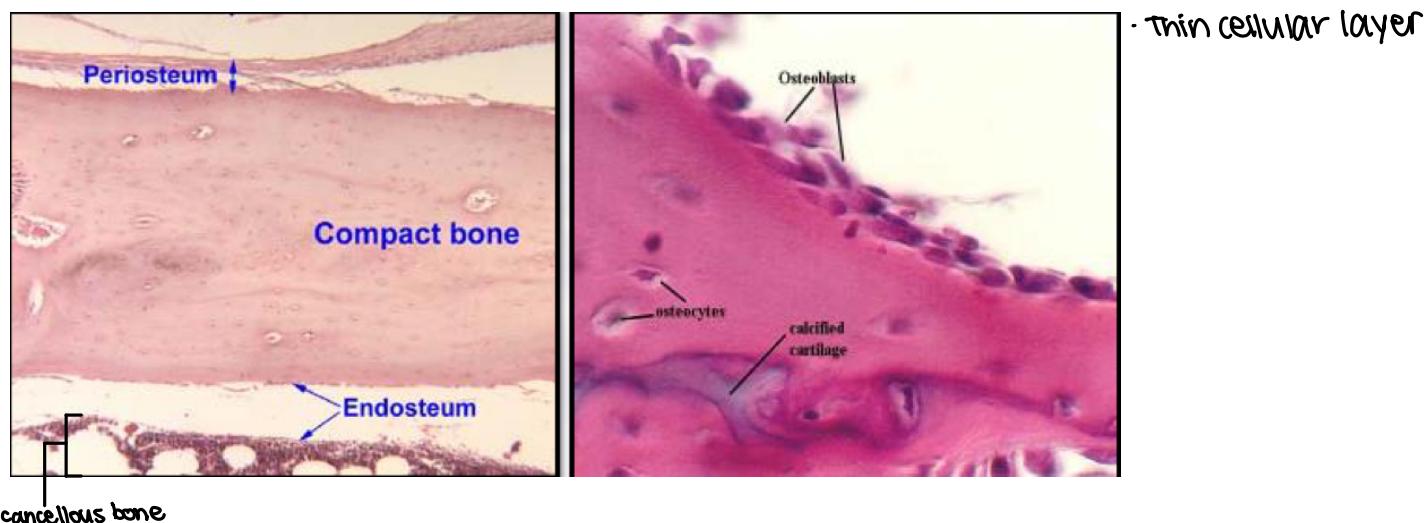
Bone



Periosteum = outer layer of compact bone



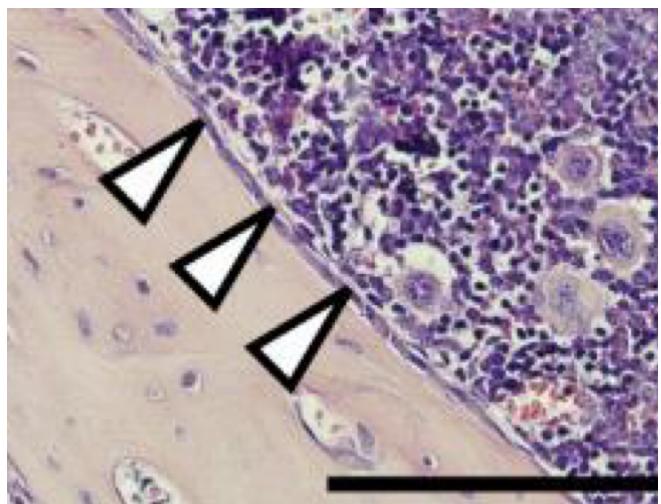
Endosteum



Cell Type of Bones

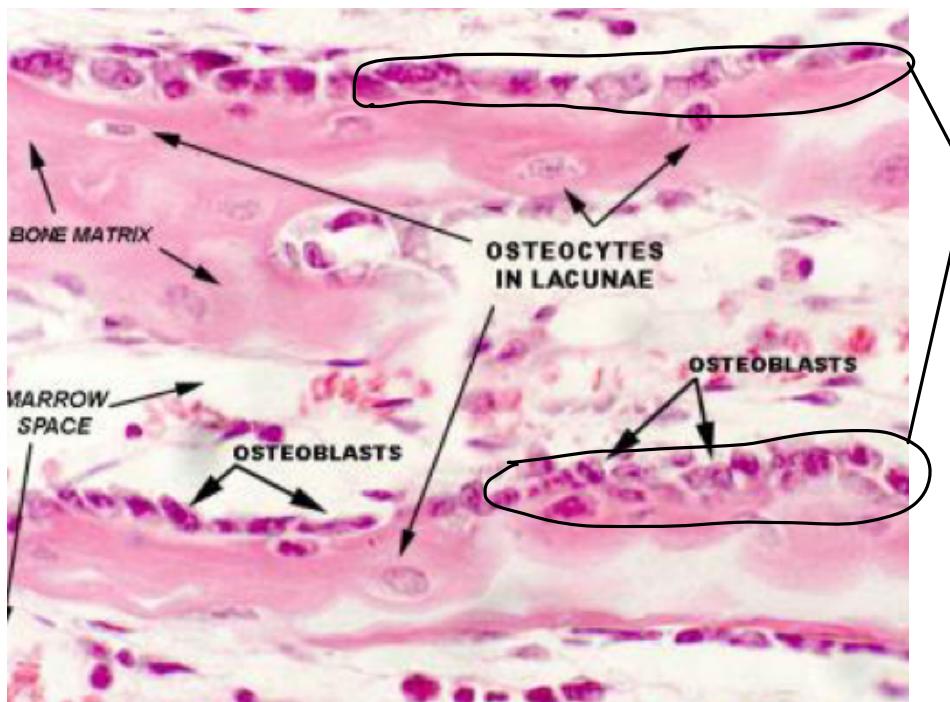
- Osteoprogenitor Cells
- Osteoblasts
- Osteoclasts
- Osteocytes

Osteoprogenitor Cell



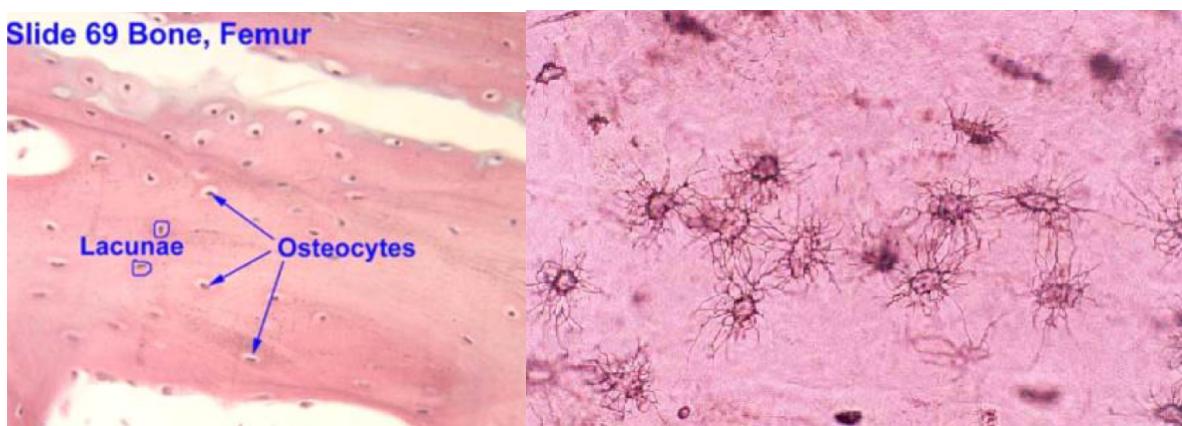
- located in periosteum and endosteum cellular layer
- differentiate into osteoblast

Osteoblasts



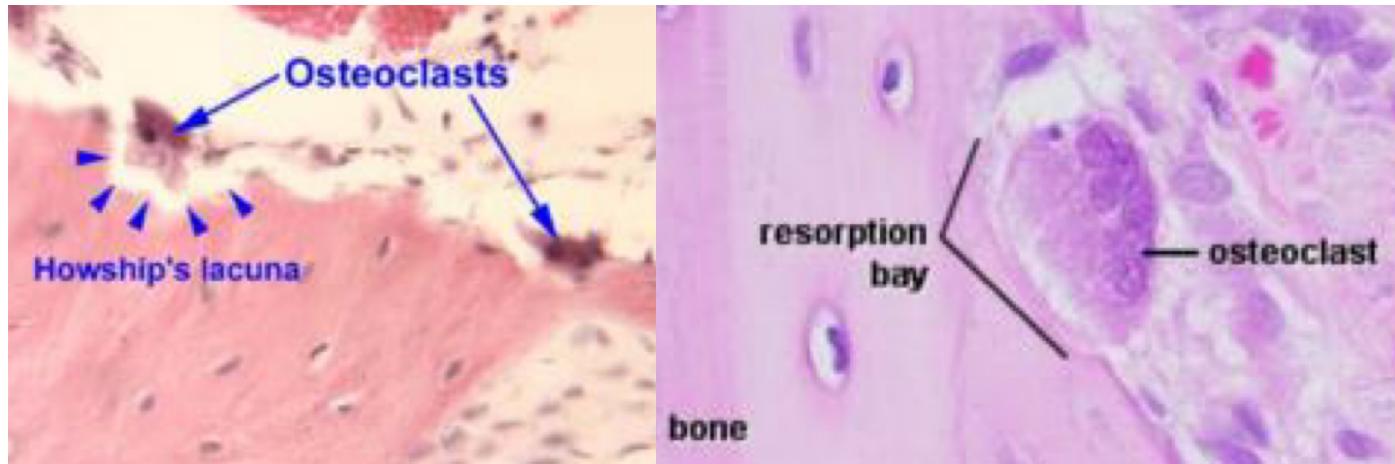
- Osteoblasts
- like epithelial Surface
- produce matrix
- prominent nucleolus
- basophilic cytoplasm

Osteocytes

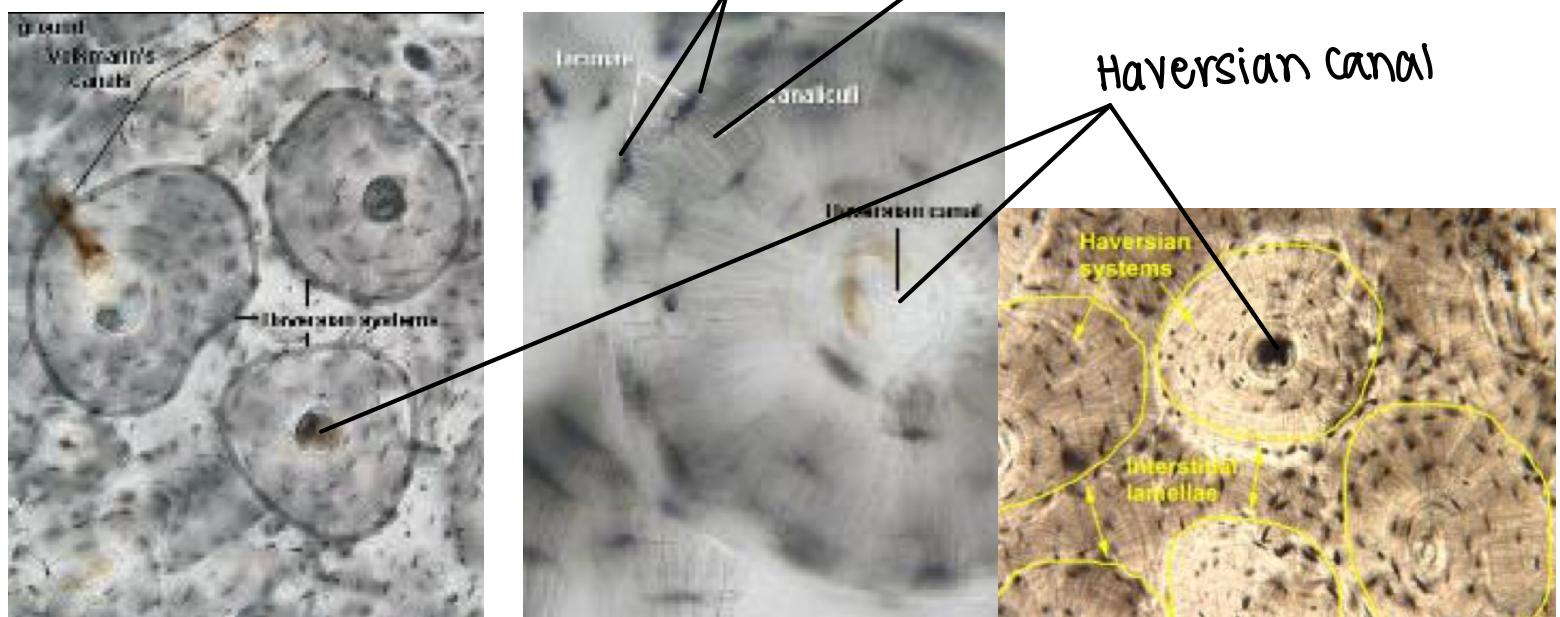


- occupy lacunae in bone
- Canaliculi
- Cytoplasmic extension

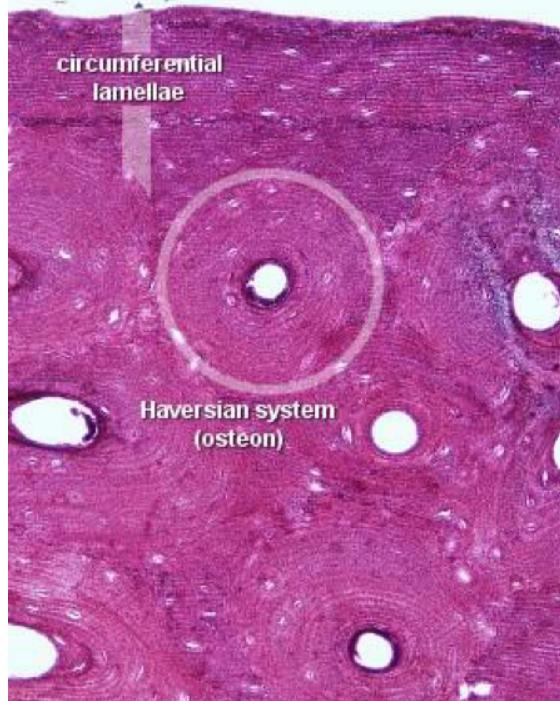
Osteoclasts



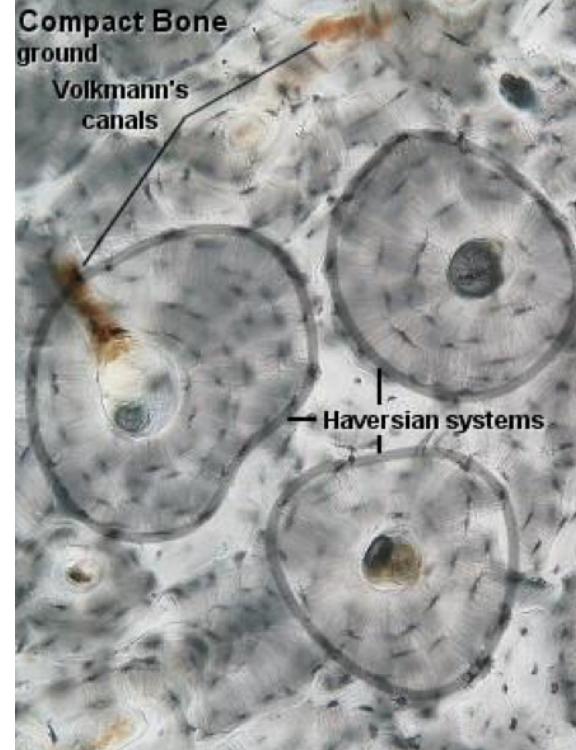
Haversion System



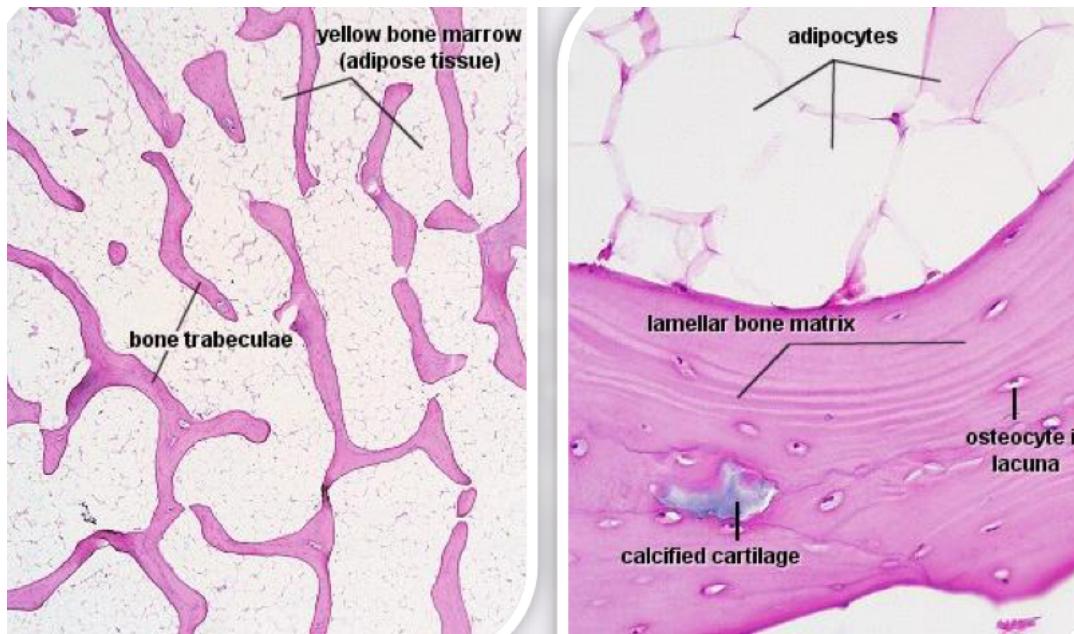
Compact Bone Schmorl stained



Compact Bone ground



Cancellous Bone



Endochondral Ossification

