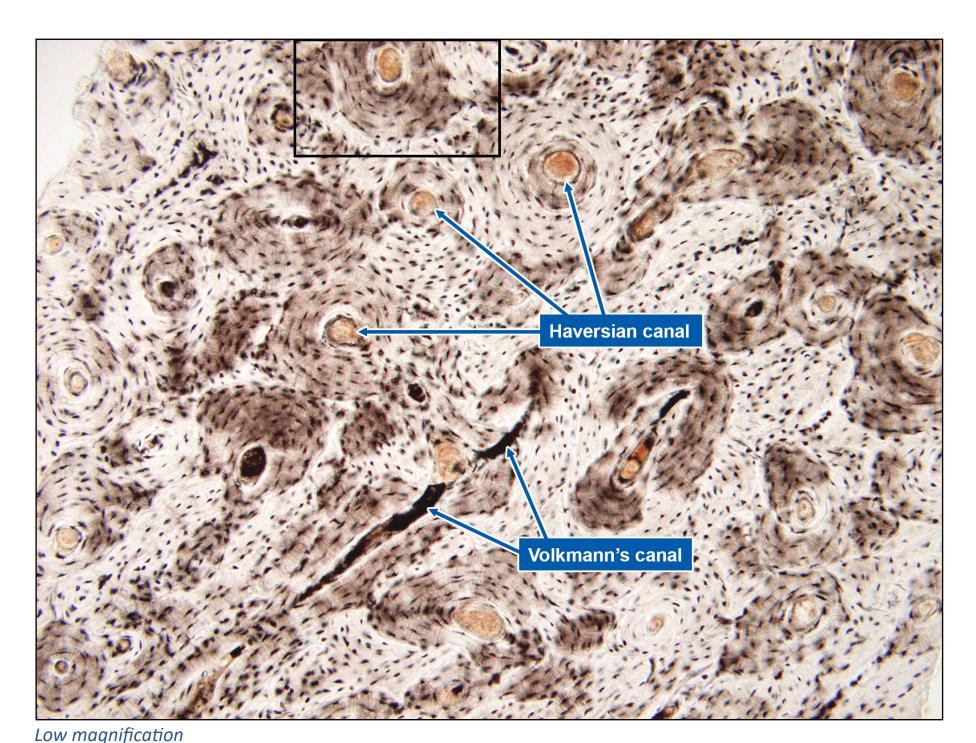
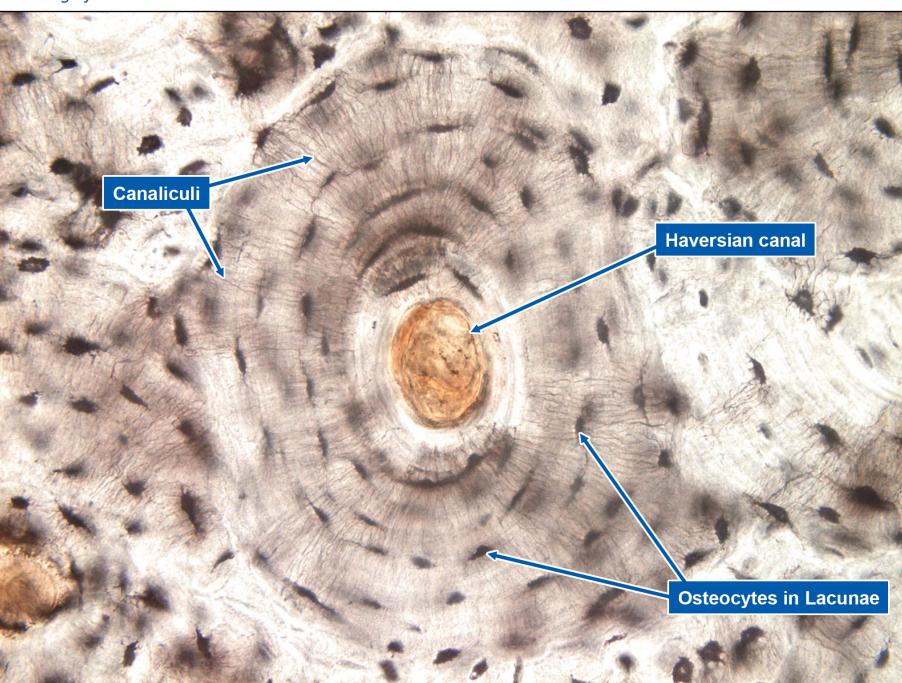
FEMUR HUMAN, GROUND SECTION

Musculoskeletal System

Preparing bone tissue for histology can be challenging due to its calcified matrix. There are two preparation techniques: Ground section and H&E staining.





High magnification

- 1. Compact bones possess Haversian systems which run parallel columns lengthwise down the axis of long bones.
- 2. These columns are composed of Lamellae, concentric rings of bone surrounding central channel of Haversian Canal.
- 3. The Haversian canal contains nerves, blood vessel and lymphatic system.
- 4. Volkmann's canals are lateral canals that interconnect two Haversian canals.
- 5. Haversian canals are surrounded lacunae which are small, spindle shaped space containing Osteocyte.
- 6. Canaliculi are small channels which radiate from lacunae to the haversian canal
- providing a passageway. 7. Osteocytes use this passageway to send thin cytoplasmic extension to access the

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blood supply.