Bone and Bone Cancer Pain

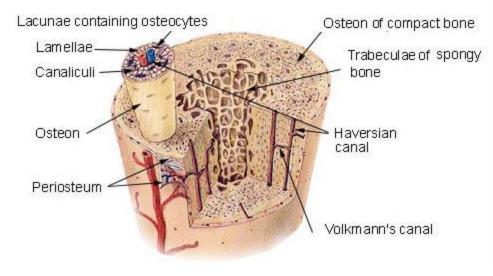
Mrs. Boggs

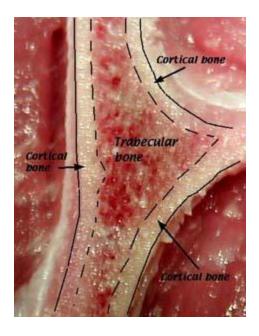
Bone

Function:

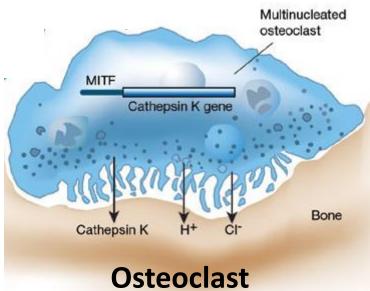
- Structure
- Organ support
- Mineral storage

Compact Bone & Spongy (Cancellous Bone)



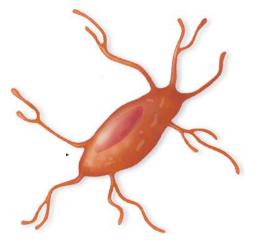


Bone Cells



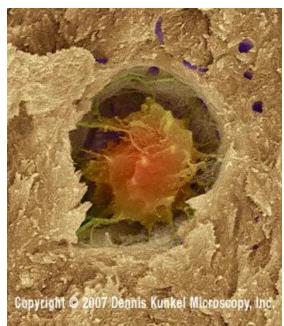


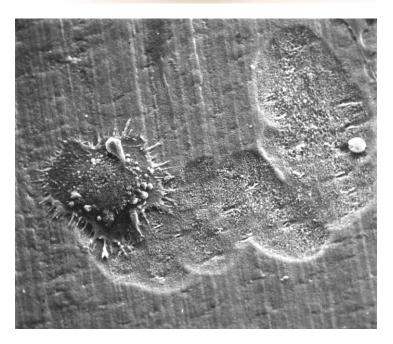
Osteoblast

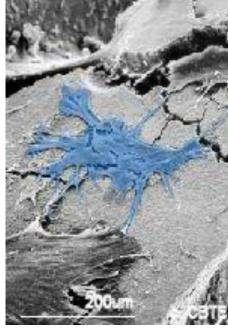


Osteocyte

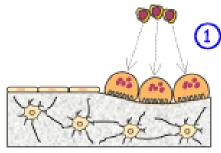
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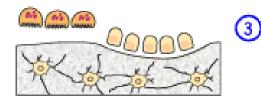




Bone Fracture Healing

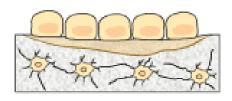


After a fracture, osteoclasts come and clean-up the fracture site



Osteoblasts then come in and deposit new bone

④

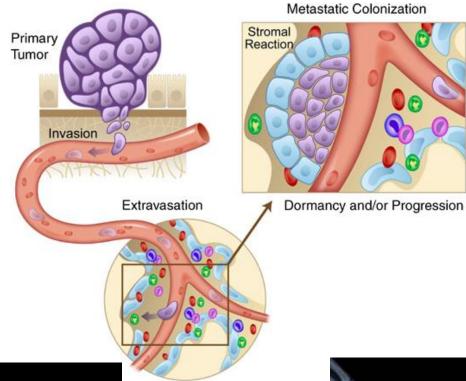


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Some osteoblasts get stuck in the newly formed bone, and become osteocytes

http://depts.washington.edu/bonebio/bonAbo ut/remod/remod.html

Bone Cancer

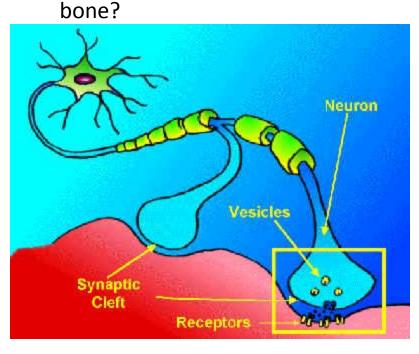


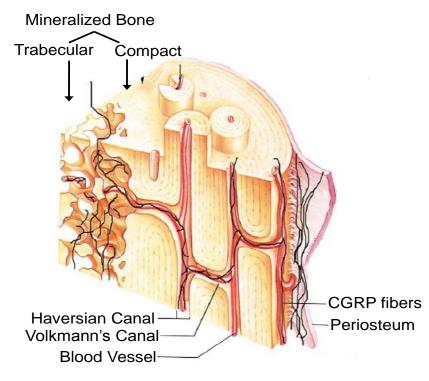




Bone Cancer Pain and Treatment

- Bone contains a lot of nerves that sense pain
- Bone pain is not effectively treated
- My Research: •How do we feel pain from tumors in





Adapted from Marieb and Mallet Human Anatomy, 1994