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Cellular and Molecular Mechanisms of Bone Remodeling

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Cellular mechanisms of bone remodeling - PubMed Central (PMC)

Explanation of the processes of bone formation, healing of fractures, and bone remodeling.

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Remodeling enables calcium stored in the bones to be removed for metabolic processes in other parts of the body. Similarly, remodeling occurs when

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excess calcium is returned to the bone reservoir. Remodeling occurs during the repair of broken bones.

CHAPTER 8 BONE MECHANICS

The bone remodelling cycle (see Poster panel “The bone remodelling cycle”) maintains the integrity of the skeleton through the balanced activities of its constituent cell types. These are the bone-forming osteoblast, a cell that produces the organic bone matrix and aids its mineralisation (

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Frontiers | Connecting Mechanics and Bone Cell Activities ...

Bone is a complex tissue that is continually being torn down and replaced by biological remodeling. As the main constituent in whole bones (which as organs contain other tissues such as bone marrow, nerves, and blood vessels), the two types of bone tissue—cortical and trabecular bone—have the

Bone formation, healing, remodeling

Eriksen EF (2010) Cellular mechanisms of bone remodeling. Reviews in Endocrine and Metabolic Disorders

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Thermal, Electrical, And Mechanical Field Effects
11(4):219–227 Google Scholar Franciosi P, Spagnuolo M, Salman OU (2019) Mean Green operators of deformable fiber networks embedded in a compliant matrix and property estimates.

Bone remodelling at a glance | Journal of Cell Science

During normal bone remodeling, the amount of resorbed bone is completely replaced in location and amount by new bone. This is secured through tight coupling of bone resorption to bone formation. The mechanisms underlying the coupling process still remains largely elusive, although the last 15 years has increased our knowledge significantly.

Mechanobiology - Wikipedia

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Bone Homeostasis

Cellular mechanisms of bone remodeling. Abstract Bone remodeling is a tightly regulated process securing repair of microdamage (targeted remodeling) and replacement of old bone with new bone through sequential osteoclastic resorption and osteoblastic bone formation. The rate of remodeling is regulated by a wide variety of calcitropic hormones (PTH,...

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It is directly triggered by the transduction phase by osteocytes embedded within the bone matrix. The bone remodeling process is governed by the interactions between osteoblasts and osteoclasts through the expression of several autocrine and paracrine

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Thermal, Electrical, And Mechanical Field Effects factors that control bone cell populations and their relative rate of differentiation and proliferation.

A Diffusion Model for Stimulus Propagation in Remodeling ...

Traversing and encasing the BMU is a canopy of cells that creates a bone-remodeling compartment . The phenotype of the canopy cell is still under debate. Evidence in humans suggests that it is a bone-lining cell, whereas in the mouse, osteomacs traverse BMUs during physiological bone remodeling .

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