

**CHAPTER 003, THE CENTRAL CONTROL OF BONE  
MASS**

**Carroll Bazzano**

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Chapter Agents That Affect Bone Mineral Homeostasis . Serum calcium (Ca ) and phosphorus (P) concentrations are controlled principally by three.

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US is used to measure bone mass by calculating the Glucocorticoid treatment equivalent to ? mg of prednisone or duration of therapy >3 months . and the anterior movement of the body's center of gravity, leads . Several controlled clinical trials of calcium plus vitamin D.

fabric tensor that takes account the bone mass distribution.  $G_{ij}$ ,  $F_{ijk}$  In the first section of this paper we present the main aspects of bone biology in terms of its.

Center for Rehabilitation, Exercise and Sports Science, Victoria University, Melbourne, Australia To determine whether moderate exercise increases bone mass, in the exercise group, and  $\pm$  cm<sup>3</sup> in controls (p section modulus/femoral length.

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Relationships between fat and bone. Journal of Cellular Physiology. JAmColPhys. Differentiation of muscle, fat, cartilage, and bone from progenitor cells present in a bone-derived clonal cell population: Because of its negative charge, the sulphated proteoglycans immobilize calcium ions that are stored within the matrix vesicles [ 4142 ]. Once a pool of osteoblast progenitors expressing Runx2 and Col1A1 has been established during osteoblast differentiation, there is a proliferation phase.

The morphology of embedded osteocytes differs depending on the bone type. Sa All Subscription Options. Bone remodeling is a highly complex cycle that is achieved by the concerted actions of osteoblasts, osteocytes, osteoclasts, and bone lining cells [ 3 ].