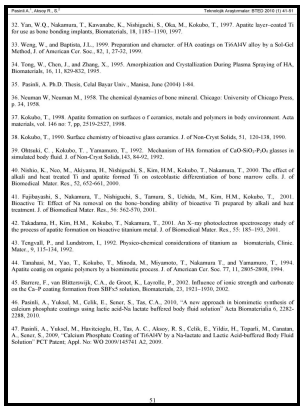
Chemical dynamics of bone mineral

University of Chicago Press - The Chemical Dynamics of Bone Mineral., William F. Newman and Margaret W. Newman. Chicago, The University of Chicago Press, 1958. xi + 209 pp. $5.00, Arthritis & Rheumatology



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Blood: Bone equilibrium

Singer: Composition and constitution of the mineral phase of bone.

Ionic interaction with bone mineral

The time has come to revise this description since it has now been proven that the surface of mature bone mineral particles is not in the form of hydroxyapatite but rather in the form of hydrated amorphous calcium phosphate. In particular, the { 1H- 31P} 1H double cross polarization CP ssNMR experiment was used to suppress the proton signal from the bone organic matrix, and, therefore, to selectively record the 1H NMR spectrum of bone mineral.

The chemical dynamics of bone mineral (William F. (William Frederick) Neuman)

Hydroxyl groups in bone mineral.

CAB Direct

Investigation of the mineral phases of bone by solid-state phosphorus-31 magic angle sample spinning nuclear magnetic resonance.

The chemical dynamics of bone mineral (William F. (William Frederick) Neuman)

Amorphous calcium phosphate is a major component of the forming fin bones of zebrafish: indications for an amorphous precursor phase. Synthetic amorphous calcium phosphate and its relation to bone mineral. Chicago, The University of Chicago Press, 1958.

Smith Freeman, The Chemical Dynamics of Bone Mineral by William F. Neuman and Margaret W. Neuman

In summary, the present study provides unprecedented insights into the chemical composition and structural features of bone mineral at the atomic scale; and, hence, embodies a key step to design an accurate chemical and structural model of mature bone mineral particles in their biological environments Fig. Ces éléments à affinité pour l'os augmente ainsi la solubilité apparente du minéral osseux. Regarding the NMR signal processing, no line broadening LB was employed to process the { 1H- 31P} 1H double CP free induction decay FID ; while a line broadening of 30 and 100 Hz was employed for the 2D { 1H} 31P HetCor experiments in the F2 and F1 dimensions, respectively.

CAB Direct

Raman spectroscopic evidence for octacalcium phosphate and other transient mineral species deposited during intramembranous mineralization. In: Norman AW, Schaefer K, Herrath DV, Gregoleit H-G, Coburn JW, DeLuca HF, Mawer EB, Suda T eds Vitamin D Basic Research and its Clinical Application.

The Chemical Dynamics of Bone Mineral., William F. Newman and Margaret W. Newman. Chicago, The University of Chicago Press, 1958. xi + 209 pp. $5.00, Arthritis & Rheumatology

Water-mediated structuring of bone apatite. An amorphous component in bone mineral. Further, our results also show the importance of bone mineral surface chemistry in the control of the homeostasis of phosphate ions i.

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