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Alendronate disturbs femoral growth due to changes during



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Cartilage **growth** may involve alterations in the balance between the swelling tendency of proteoglycans and the restraining function of the collagen network. **Growth** factors, including IGF-I, TGF- β 1, BMP-7, and PDGF-AB, regulate chondrocyte metabolism and, consequently, may regulate cartilage **growth** ...

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Differential Temporal Expression of Members of the ...

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Bone morphogenetic protein 2 (BMP-2) and **growth** and differentiation factor 8 (GDF8) showed maximal expression on day 1 after fracture, suggesting their roles as early response genes in the cascade of healing events.

Name of Journal: *World Journal of Experimental Medicine*

Manuscript NO: 48476

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Alendronate disturbs¹ femoral growth due to changes during immunolocalization of transforming growth factor- β 1 and bone morphogenetic protein-2 in epiphyseal plate

Vieira JS *et al.* Alendronate impairs the development of epiphyseal plate

Juliana Souza Vieira, Emanuelle Juliana Cunha, Juliana Feltrin de Souza, Luis Henrique Koeler Chaves, Jessica Lakes de Souza, Allan Fernando Giovanini

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Reduction of Osteophyte Formation and Synovial Thickening ...

https://www.researchgate.net/publication/8960802_Reduction_of_Osteophyte_Formation_and...

It is known that these activated macrophages produce transforming growth factor (TGF) β . Due to enhanced TGF β production, the synoviocytes enhance bone morphogenetic protein ...

Takanobu Nakase - ResearchGate

https://www.researchgate.net/profile/Takanobu_Nakase

Expression of the bone morphogenetic protein-4 gene has been detected in bone cells during fracture repair but not in normal adult bone cells.

(PDF) Would Be Prophylactic Administrations of Low ...

https://www.researchgate.net/publication/318290372_Would_Be_Prophylactic...

Background: Alendronate (Al N) is a nitrogen-bisphosphonate that may induce an anabolic effect on