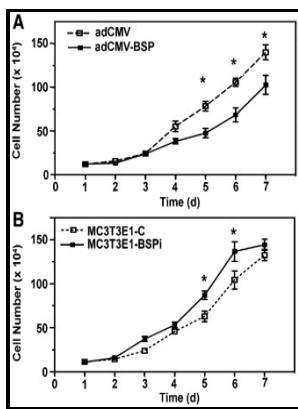


# Analyses of mRNA expression and immunolocalization of bone sialoproteins in mineralized connective tissues

University of Toronto, Graduate Dept. of Dentistry] - The anatomy of bone sialoprotein immunoreactive sites in bone as revealed by combined ultrastructural histochemistry and immunohistochemistry



Description: -

-Analyses of mRNA expression and immunolocalization of bone sialoproteins in mineralized connective tissues

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## Localization of bone sialoprotein (BSP) expression to sites of mineralized tissue formation in fetal rat tissues by In Situ hybridization

In addition, BSP is expressed at pathological areas of mineralization such as microcalcifications in the breast, atherosclerotic plaques, prostate and thyroid neoplasms 8,23-25.

## Neoplastic odontogenic epithelial cells express bone sialoprotein

In tissue sections a strong hybridization signal associated with osteoblasts was observed in areas of endochondral bone formation in the long bone metaphysis and condylar cartilage, and in the intramembranous bone of the calvaria and mandible. The other serum parameters were examined using a Beckman Coulter AU 2700 Device California, USA and the spectrophotometric method. In addition, 35S-labelled antisense riboprobes were prepared to demonstrate the cellular expression of BSP and OPN in the same tissues using *in situ* hybridization.

## Developmental Expression of Osteopontin (OPN) mRNA in Rat Tissues: Evidence for a Role for OPN in Bone Formation and Resorption

Squamous-cell carcinomas induced in the buccal pouches of 5-week-old male Syrian golden hamsters treated with chemical carcinogen had BSP mRNA and BSP in the proliferating neoplastic epithelium. Peer-review: Internally and externally peer reviewed.

## Bone sialoprotein mRNA expression and ultrastructural localization in fetal porcine calvarial bone: comparisons with osteopontin

The expression of bone sialoprotein BSP is normally restricted to mineralized connective tissues of bones and teeth where it has been associated with mineral crystal formation. Crit Rev Oral Biol Med 2004;15:126-36.

## **Neoplastic odontogenic epithelial cells express bone sialoprotein**

Citation Michaël CHAPLET, Cédric DETRY, Christophe DEROANNE, Larry W. Cementum is a mineralized tissue in the cervical part of the root of the tooth.

### **Zoledronic acid up**

Increased expression of bone sialoprotein in bone metastases compared with visceral metastases in human breast and prostate cancers. The mean serum BSP levels of the patient and control groups were 28.

### **Expression of matrix proteins during the development of mineralized tissues**

To develop a model to study the induction of BSP in carcinoma development, BSP expression in squamous-cell carcinomas induced by chemical carcinogen in the hamster cheek-pouch epithelium was investigated. Thus, the expression of OPN by osteoblasts early in bone development is consistent with a role for this protein in the formation of bone matrix, whereas the peak expression of OPN later in bone development, together with high expression at sites of rapid remodelling, indicate that OPN deposited on the surface of mineralized connective tissues may provide a template for osteoclastic resorption.

### **Expression of bone sialoprotein in mineralized tissues of tooth and bone and in buccal**

In: Coe FL, Favus MJ eds Disorders of bone and mineral metabolism

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