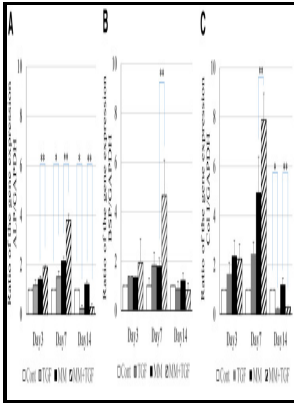


# Analyses of mRNA expression and immunolocalization of bone sialoproteins in mineralized connective tissues

University of Toronto, Graduate Dept. of Dentistry] - Expression of matrix proteins during the development of mineralized tissues



Description: -

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

Ectopic expression of bone sialoprotein in human thyroid cancer. Tympanosclerosis: review of literature and incidence among patients with middle ear infection.

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

In the alveolar bone, immunoreactivity for BSP was evident in osteoblastic cells and osteocytes and in the bone matrix; the older bone stained more strongly than newly formed bone. In immunohistochemical studies, a significant reduction in cementum accumulation was observed in BSP gene ablation mice 31. BSP deposition was also seen in the stellate reticulum of the tumour masses revealed by immunohistochemistry using human BSP antibodies.

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

Statistical Analysis In this study, IBM SPSS Statistics Version 22 software package was used for the statistical analysis.

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

BSP was suggested to be physiologically important for hydroxyapatite nucleation, cell cohesion and collagen binding 16,17. These changes often disrupt the movement of the eardrum and the ossicular chain, leading to hearing loss. Finally, amelogenin was a specific product of ameloblasts.

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

In addition, a porcine cRNA probe was used to determine the cellular expression of BSP in the same tissues by in situ hybridization. Distribution of

alkaline phosphatase, osteopontin, RANK ligand and osteoprotegerin in calcified human carotid atheroma. Methods: We included into this study 24 patients with TS and 24 asymptomatic healthy volunteers.

**Bone sialoprotein in developing porcine dental tissues: Cellular expression and comparison of tissue localization with osteopontin and osteonectin**

Myringosclerosis caused by increased oxygen concentration in traumatized tympanic membranes. Flores ME, Norgard M, Heinegard D, Reinholt FP, Anderson G 1992 RGD-directed attachment of isolated rat osteoclasts to osteopontin, bone sialoprotein, and fibronectin. Although BSP does not contain different structural areas, the protein is highly modular, comprising spatially segmented motifs that can bind varied distinct ECM components with various biological roles, including collagen, matrix metalloproteinases, hydroxyapatite, as well as integrins present on many cell types 18-21.

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