

## Analysis of amelogenin gene (AMGX, AMGY) expression in ameloblastoma

Type:

Article

Abstract:

Although the amelogenin gene is expressed in ameloblastoma, the precise expression pattern of X and Y amelogenin genes (AMGX, AMGY) in this tumor has not yet identified. In this study, we analyzed amelogenin gene expression in 19 samples (9 male, 10 female) of oral ameloblastomas by RT-PCR and detect the chromosomal origin of amelogenin mRNA by restriction enzyme digestion of the RT-PCR product. All tumor samples expressed amelogenin mRNA. We could detect increased level of AMGY expression in all male samples, higher than that of AMGX. It is an interesting finding as in normal male tooth **development**, the expression of AMGY is very much lower than that of AMGX. We postulate that epigenetic change of sex chromosomes may have some correlations with tumorigenesis of ameloblastoma. We also discuss the other possible mechanisms and points for future studies on this change in expression pattern. (C) 2005 Elsevier Ltd. All rights reserved.

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Source	Oral Oncology
ISSN	1368-8375
DOI	10.1016/j.oraloncology.2005.04.005
Volume (Issue)	41(8)
Page	843-850
Year	2005

Keyword:

Amelogenin,AMGX,AMGY,ameloblastoma,RT-PCR,in situ hybridization,odontogenic-tumors,matrix proteins,splice products,enamel,identification,mutation,cells,end

Please Cite As:

TSUJIGIWA, H., NAGATSUKA, H., HAN, P. P., GUNDUZ, M., SIAR, C. H., OIDA, S. & NAGAI, N. 2005. **Analysis of amelogenin gene (AMGX, AMGY) expression in ameloblastoma.** *Oral Oncology*, 41, 843-850.

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