

5th American Dental Congress

October 05-07, 2015 Philadelphia, USA

S100A9 expression in oral squamous cell carcinoma

Golshid Mehrabani, Azadeh Andisheh Tadbir and Mohammad Javad Ashraf
Shiraz University of Medical Sciences, Iran

Background: S100A9 is a calcium binding protein which was over-expressed in different human cancers, presenting increased expression in neoplastic tumor cells as well as infiltrating immune cells. The aim of this study is to determine the S100A9 expression in oral squamous cell carcinoma (OSCC) and its relation with the clinic-pathological features.

Methods: In this study, 60 cases of oral squamous cell carcinoma and 20 normal epithelium subjects were reviewed by IHC for S100A9 staining.

Results: It was shown that S100A9 expression in OSCC was statistically higher than normal epithelium. S100A9 expression in inflammatory cells of stroma was seen in both of OSCC and normal epithelium and was statistically higher in OSCC than normal. The expression of S100A9 in squamous epithelial cells was associated with cellular differentiation, but was not related to the clinical stage and lymph node status.

Conclusion: S100A9 expression plays an important role in the carcinogenesis and development of OSCC and the expression in tumor cells denotes to the histological differentiation.

Biography

Golshid Mehrabani is a DMD student from Shiraz University of Medical Sciences, Shiraz, Iran. He has done 2 years internship in rural areas since last year to serve poor people who do not easily have access to dental hygiene services. Till-date, he has published 2 papers in journals of *World Journal of Plastic Surgery* and in *Middle East Journal of Scientific Research*. He has also participated in some workshops and domestic congresses.

mehrabad@sums.ac.ir

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