

Friday, November 16th 2012, 09.00-10.00 (Hall 3)

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Lysyl Oxidase And Enhancement Of Cell Proliferation And Angiogenesis In Oral Squamous Cell Carcinoma

Purpose : Lysyl oxidase (LOX) is a copper-dependent enzyme that cross-links collagen and elastin in the extracellular matrix. LOX is overexpressed in various tumors. The relationship between LOX and oral squamous cell carcinoma (OSCC) is controversial.

Materials & Methods : Chemical treatment and gene transfection were used to induce LOX overexpression or inhibition in cell lines. OSCC cell line SAS and mouse vascular endothelial cell line SVEC4-10 were selected. LOX mRNA, protein, and activity were confirmed before tube formation assay and tumorigenesis. The microvessels in the tumor section were detected by immunostaining CD31-positive endothelial cells.

Results : LOX overexpression and copper induction of LOX activity increased SVEC4-10 tube formation. LOX silencing and b-aminopropionitrile inhibition of LOX activity had opposite effects. LOX overexpression increased proliferation and proliferating cell nuclear antigen expression. High

LOX expression clones increased tumor size in a tumorigenesis model. The microvascular numbers were higher in LOX overexpression tumors than in control tumors.

Conclusion : LOX can induce cell proliferation and angiogenesis in OSCC.

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The Effect Of Capsaicin Cream And Carbarcoleon Prevention Of Duct Obstruction Of Transplanted Submandibular Gland

Purpose : Transplantation of submandibular gland (SMG) is an effective technique for treatment of severe keratoconjunctivitis sicca. However, duct obstruction of transplanted SMG may occur and lead