

Carcinoma-associated fibroblast-derived lysyl oxidase-rich extracellular vesicles mediate collagen crosslinking and promote epithelial-mesenchymal transition via p-FAK/p-paxillin/YAP signaling

Xue Liu,^{1, 2, 3, 4} Jiao Li,^{1, 2, 3, 4} Xuesong Yang,⁵ Xiaojie Li,⁴ Jing Kong,⁴ Dongyuan Qi,⁶ Fuyin Zhang,⁷ Bo Sun,⁷ Yuehua Liu^{2, 3 *}, Tingjiao Liu^{1, 2 *}

¹*Department of Oral Pathology, Shanghai Stomatological Hospital & School of Stomatology, Fudan University, Tianjin Road No.2, Huangpu District, Shanghai 200001, China.*

²*Shanghai Key Laboratory of Craniomaxillofacial Development and Diseases, Fudan University, Tianjin Road No.2, Huangpu District, Shanghai 200001, China.*

³*Department of Orthodontics, Shanghai Stomatological Hospital & School of Stomatology, Fudan University, East Beijing Road No.356, Huangpu District, Shanghai 200001, China.*

⁴*School of Stomatology, Dalian Medical University, West Section No.9, South Road of Lvshun, Dalian 116044, China.*

⁵*Department of Biochemistry and Molecular Biology, Liaoning Provincial Core Lab of Glycobiology and Glycoengineering, Dalian Medical University, West Section No.9, South Road of Lvshun, Dalian 116044, China.*

⁶*Department of Oral Surgery, the First Affiliated Hospital of Dalian Medical University, No.222 Zhongshan Road, Dalian 116023, China.*

⁷*Department of Oral Surgery, the Second Affiliated Hospital of Dalian Medical University, No.467 Zhongshan Road, Dalian 116023, China.*

* Correspondence: tingjiao_liu@fudan.edu.cn; liyuehua@fudan.edu.cn

¹*Department of Oral Pathology, Shanghai Stomatological Hospital & School of Stomatology, Fudan University, Tianjin Road No.2, Huangpu District, Shanghai 200001, China.*

Supplementary table

Table S1a Clinical and pathological parameters in patients with OSCC

Characteristics	Cases
Gender	
Male	16
Female	14
Age	
≤ 62 year	17
≥ 62 year	13
Sites	
Palate	4
Buccal mucosa	3
tongue	8
Lip	4
gingiva	5
Mouth floor	1
Pharynx	1
Submandibular	2
Mandible	2
Grade	
I	14
II	11
III	5

Table S1b Correlation coefficients between LOX and clinical parameters in OSCC patients

Variables	LOX	Gender	Age	Sites	Grade
LOX	1				
Gender	-0.077	1			
Age	0.189	0.101	1		
Sites	0.211	0.255	0.037	1	
Grade	-0.171	-0.139	-0.298	-0.224	1

Note: Pearson correlation analysis was used for continuous variables; Spearman correlation analysis was used for category variables. P-value < 0.05