

Molecular and Cellular Modelling of Salivary Gland Tumors Open New Landscapes in Diagnosis and Treatment

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Table S1. Modified WHO classification list 2017 of SG tumors, including genes and molecular alterations.

Tumor	Type	Gene Rearrangement	Molecular Alterations
Pleomorphic adenoma	Benign	t(3;8) (p21;q12)	PLAG1 β-catenin
Myoepithelioma	Benign		
Basal Cell adenoma	Benign		
Warthin tumour	Benign		
Oncocytoma	Benign		
Lymphadenoma	Benign		
Cystadenoma	Benign		
Sialadenoma papilliferum	Benign		
Ductal papilloma	Benign		
Sebaceous adenoma	Benign		
Canalicular adenoma/ductal adenomas	Benign		
Sialoblastoma	Borderline tumor		
Haemangioma	Soft tissue lesions		
Lipoma/sialolipoma	Soft tissue lesions		
Nodular fasciitis	Soft tissue lesions		
Sclerosing polycystic adenosis	Epithelial lesions		
Nodular oncocytic hyperplasia	Epithelial lesions		
Lymphoepithelial lesions	Epithelial lesions		

Intercalated duct hyperplasia	Epithelial lesions		
Acinic cell carcinoma	Malignant	t(4;9)(q13;q31) HTN3-MSANTD3	NR4A3/Cyclin D1
Secretory Carcinoma	Malignant	t(12;15)(p13;q25): ETV6-NTRK3 ETV6-RET	
Mucoepidermoid carcinoma	Malignant	MALM2/METC1 t(11;19)	NOTCH EGF/AREG AQP1/AQP3/AQP5
Adenoid cystic carcinoma	Malignant	t(6;9)(q22-23;p23-24) 6q23-q27, 12q12-q14 1p32-p36	WNT/ β -catenin AP2 γ /Kit MYB/MYBL1/NFIB P53/p73/CDH5 SOX4 NOTCH p63/p40
Polymorphous adenocarcinoma	Malignant	PRKD1 E710D	Beclin LC3B BCL2 Survivin FGF2 PDGF α/β
Epithelial-myoepithelial carcinoma	Malignant		
Clear cell carcinoma	Malignant		
Basal cell adenocarcinoma	Malignant		
Sebaceous adenocarcinoma	Malignant		
Intraductal carcinoma	Malignant		
Cystadenocarcinoma	Malignant		
Adenocarcinoma NOS	Malignant		
Salivary duct carcinoma	Malignant		HER2 GCDFP-15 p53 AR/ER β

		EGFR TGF α PPAR γ
Myoepithelial carcinoma	Malignant	
Carcinoma ex pleomorphic adenoma	Malignant	
Carcinosarcoma	Malignant	
Poorly differentiated carcinoma		
- Neuroendocrine and non-neuroendocrine		
-Undifferentiated carcinoma	Malignant	
-Large cell neuroendocrine carcinoma		
-Small cell neuroendocrine carcinoma		
Lymphoepithelial carcinoma	Malignant	
		WNT/ β -catenin BMP Notch
Squamous cell carcinoma	Malignant	
Oncocytic carcinoma	Malignant	
Extranodal marginal zone lymphoma of MALT	Haematolymphoid tumors	



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