



UNIVERSITY OF LEEDS

This is a repository copy of *Secretome analysis of oral keratinocytes chronically exposed to shisha*.

White Rose Research Online URL for this paper:  
<http://eprints.whiterose.ac.uk/144686/>

Version: Supplemental Material

---

**Article:**

Patil, S, Babu, N, Subbannayya, T et al. (11 more authors) (2019) Secretome analysis of oral keratinocytes chronically exposed to shisha. *Cancer Biomarkers*, 25 (1). pp. 29-41. ISSN 1574-0153

<https://doi.org/10.3233/CBM-182099>

---

This paper is protected by copyright. This is an author produced version of a paper published in *Cancer Biomarkers*. The final publication is available at IOS Press through <https://doi.org/10.3233/CBM-182099>. Uploaded in accordance with the publisher's self-archiving policy.

**Reuse**

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

**Takedown**

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing [eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk) including the URL of the record and the reason for the withdrawal request.



[eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk)  
<https://eprints.whiterose.ac.uk/>





Supplementary Table 2: List of differentially expressed proteins identified in OKF6/TERT1-Shisha secretome compared to OKF6/TERT1-Parental secretome.

Accession	Gene ID	Gene Symbol	Protein name	Median Fold change	p-value	SignalP status	SecretomeP status	TMHMM status	Exocarta status	Vesiclepedia status	Secretory status in salivary secretome	Identified in OSCC / HNSCC
NP_001012997.1	340543	FSTL1	folistatin-related protein 1	0.4	0.00191	Yes	N/A	N/A	N/A	N/A	Yes	
NP_002809.2	5721	HLA-C	HLA class I histocompatibility antigen, Cw-1 alpha chain	0.4	0.00843	Yes	N/A	Yes	Yes	Yes	N/A	Yes
NP_008933.2	11047	TSNAX	translin-associated protein X	0.4	0.01246	N/A	N/A	N/A	Yes	Yes	N/A	Yes
NP_000933.1	5479	ERAP1	endoplasmic reticulum aminopeptidase 1 isoform a	0.4	0.00447	Yes	N/A	N/A	Yes	Yes	Yes	Marimuthu et al. (2013)
NP_004885.2	4318	TNFRSF6B	tumor necrosis factor receptor superfamily member 6B	0.4	0.00126	Yes	N/A	N/A	N/A	Yes	Yes	N/A
NP_000908.2	5033	LAMA3	laminin subunit alpha-3 isoform 1	0.4	0.00163	Yes	N/A	N/A	Yes	Yes	Yes	Marimuthu et al. (2013)
NP_001975.1	2096	CYR61	protein CYR61	0.4	0.00631	Yes	Yes	N/A	Yes	Yes	Yes	Yes
NP_002072.2	2817	UBE2L6	ubiquitin-UBG15-conjugating enzyme E2 L6 isoform 1	0.4	0.00098	N/A	Yes	N/A	N/A	Yes	N/A	Yes
NP_001407.1	1973	PLTP	phospholipid transfer protein isoform a	0.4	0.00037	Yes	Yes	N/A	Yes	Yes	Yes	Yes
NP_006218.1	5360	SERPIN2	plasminogen activator inhibitor 2	0.4	0.00399	N/A	N/A	N/A	N/A	Yes	Yes	Yes
NP_037481.1	29937	PLOD2	procollagen-lysine,2-oxoglutarate 3- dioxygenase 2 isoform 1	0.3	0.00165	Yes	N/A	N/A	Yes	Yes	N/A	Yes
NP_065723.1	57402	CKAP4	cytoskeleton-associated protein 4	0.3	0.00050	N/A	N/A	N/A	Yes	Yes	N/A	Yes
NP_066997.1	51060	DSG3	desmoglein-3	0.3	0.00274	Yes	N/A	N/A	Yes	Yes	N/A	Yes
NP_037536.2	10232	SERPINH1	serpin H1	0.3	0.01111	Yes	Yes	N/A	Yes	Yes	Yes	N/A
NP_055399.1	30001	SLC3A2	4F2 cell-surface antigen heavy chain isoform b	0.3	0.00187	N/A	N/A	Yes	Yes	Yes	N/A	Yes
NP_002897.1	6281	SEMA3C	semaphorin-3C	0.3	0.00083	Yes	N/A	N/A	Yes	Yes	Yes	N/A
NP_001633.1	334	SIL1	nicotinamide exchange factor SIL1	0.3	0.00076	Yes	N/A	Yes	N/A	Yes	Yes	Yes
NP_000906.1	5020	INHBA	inhibin beta A chain	0.3	0.00380	Yes	Yes	N/A	Yes	N/A	Yes	Yes
NP_005660.4	7905	TENM2	tenascin-2 isoform 1	0.3	0.00255	N/A	N/A	Yes	N/A	N/A	N/A	N/A
NP_006386.1	10533	TYMP	thymidine phosphorylase isoform 2	0.3	0.00057	N/A	Yes	N/A	Yes	Yes	N/A	Yes
NP_002262.3	3843	B2M	beta-2-microglobulin	0.3	0.00077	Yes	Yes	N/A	Yes	Yes	Yes	Yes
NP_009016.1	11167	LAMB3	laminin subunit beta-3	0.3	0.00189	Yes	N/A	N/A	Yes	Yes	Yes	N/A
NP_005508.1	3151	IGFBP6	insulin-like growth factor-binding protein 6	0.3	0.00493	Yes	N/A	N/A	Yes	N/A	Yes	Yes
NP_002317.1	4907	SERPINA1	alpha-1-antitrypsin	0.3	0.00029	Yes	N/A	N/A	Yes	Yes	Yes	Yes
NP_001229971.1	3107	SERPINE1	plasminogen activator inhibitor 1	0.3	0.00104	Yes	N/A	N/A	Yes	Yes	Yes	N/A
NP_002296.1	3956	HMGAI	high mobility group protein HMG-HMG-Y isoform a	0.3	0.00091	N/A	N/A	N/A	Yes	Yes	N/A	Yes
NP_001782.1	998	PPIC	peptidyl-prolyl cis-trans isomerase C	0.3	0.00088	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NP_004888.2	9562	HMGAC2	high mobility group protein HMG-C isoform d	0.2	0.00073	N/A	N/A	N/A	Yes	Yes	N/A	N/A
NP_006008.1	10961	MMP9	matrix metalloproteinase-9	0.2	0.00139	Yes	N/A	N/A	Yes	Yes	Yes	Yes
NP_003814.1	8771	REEP5	receptor expression-enhancing protein 5	0.2	0.00119	N/A	N/A	Yes	Yes	Yes	N/A	N/A
NP_006519.1	7980	TFPI2	tissue factor pathway inhibitor 2 isoform 1	0.1	0.01529	Yes	N/A	N/A	N/A	Yes	Yes	N/A
NP_002017.1	2335	SLC7A5	large neutral amino acids transporter small subunit 1	0.1	0.00627	N/A	Yes	Yes	Yes	Yes	N/A	N/A
NP_001544.1	3490	ISG15	ubiquitin-like protein ISG15	0.1	0.01535	N/A	Yes	N/A	Yes	Yes	N/A	N/A
NP_000902.2	3059	MX1	interferon-induced GTP-binding protein Mx1 isoform a	0.0	0.00600	N/A	N/A	N/A	Yes	Yes	N/A	Yes