

SUPPLEMENTARY MATERIAL

Article title: Tumour marker expression in head and neck malignancies to identify potential targets for intraoperative molecular near-infrared imaging

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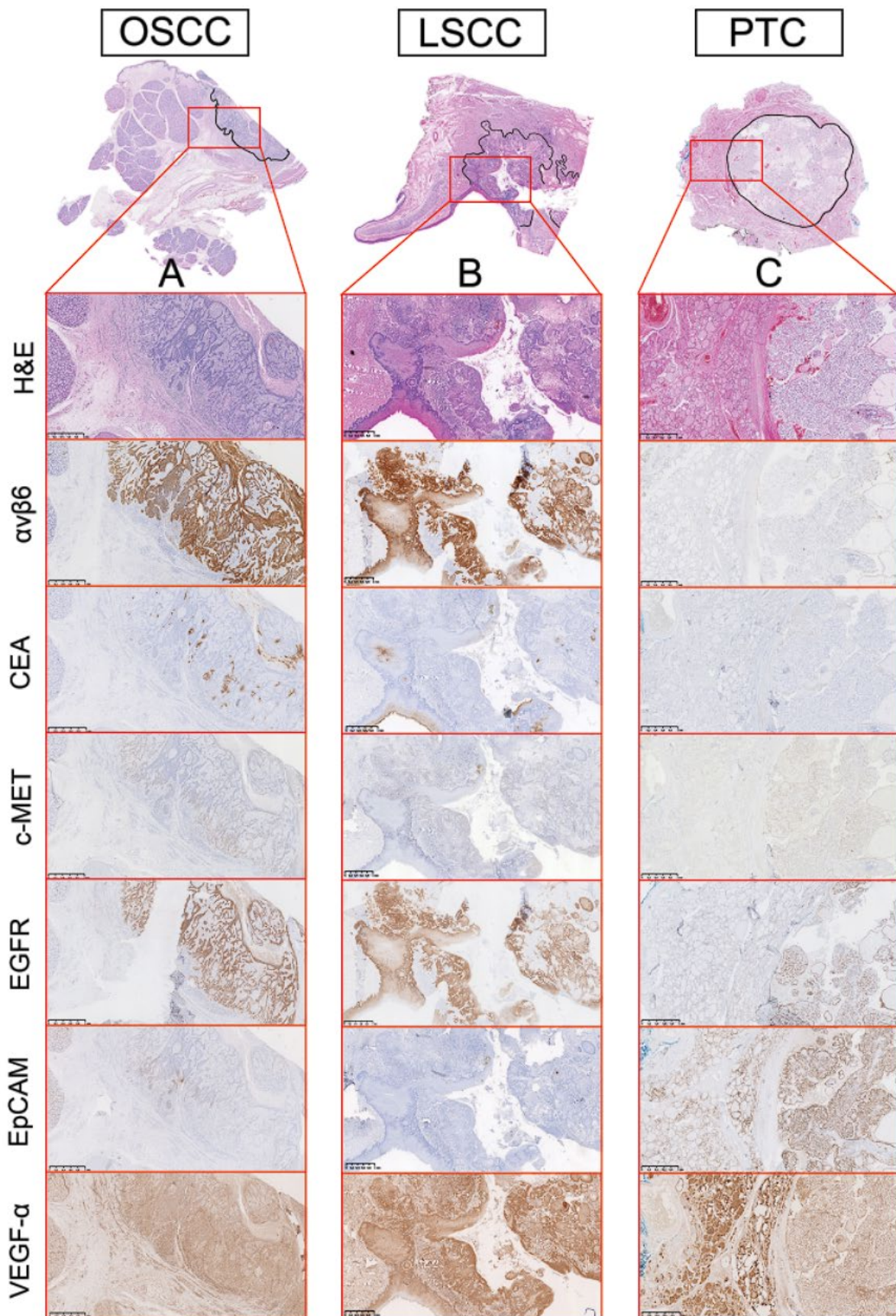
Protein abbreviation	Antibody	Company	Antigen retrieval	Secondary antibody	Stock concentration
Integrin $\alpha\beta 6$	$\alpha\beta 6$ 6.2.A1	Biogen Idec.	0.4% Pepsin	Anti-mouse	0.05 mg/ml
CEA	CI-P83-1	Santa Cruz	Dako PT link Target Retrieval Solution, pH 6.0	Anti-mouse	0.2 mg/ml
c-MET	EP1454Y	Bio SB	Dako PT link Target Retrieval Solution, pH 9.0	Anti-rabbit	0.479 mg/ml
EGFR	D38B1XP	Cell signaling technology	Dako PT link Target Retrieval Solution, pH 9.0	Anti-rabbit	0.1 mg/ml
EpCAM	MOC31	Acris antibodies	Dako PT link Target Retrieval Solution, pH 6.0	Anti-mouse	0.64 mg/ml
VEGF-α	G153-694	BD Pharmingen	No antigen retrieval	Anti-mouse	0.5 mg/ml

Supplementary Table 1: Overview of the immunohistochemistry methods

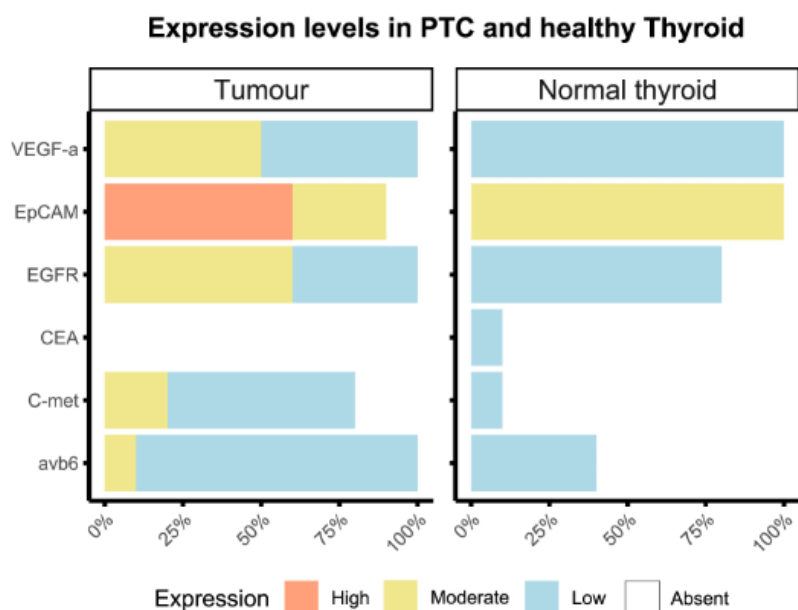
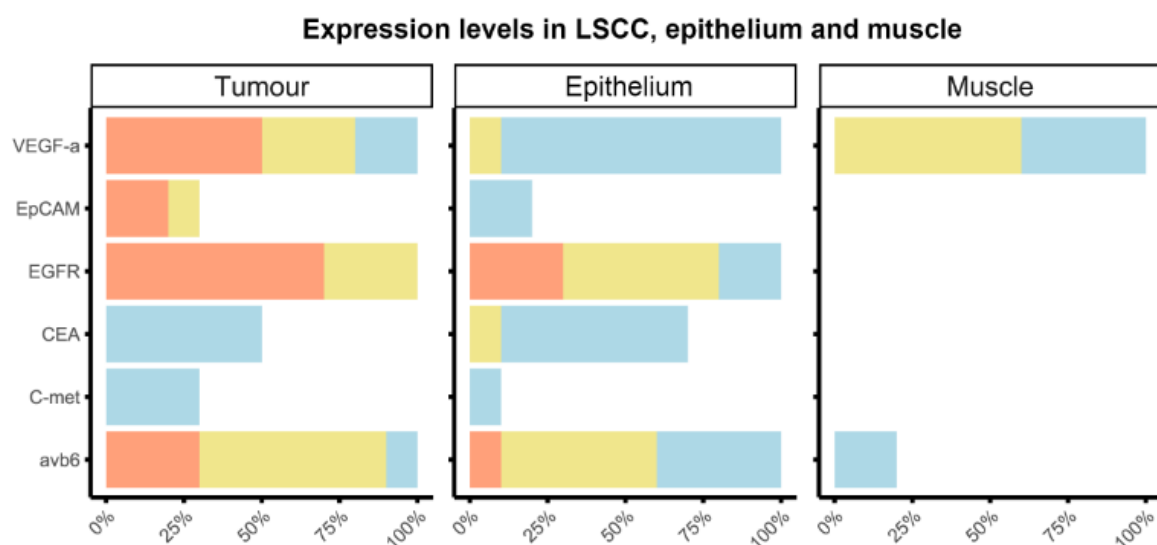
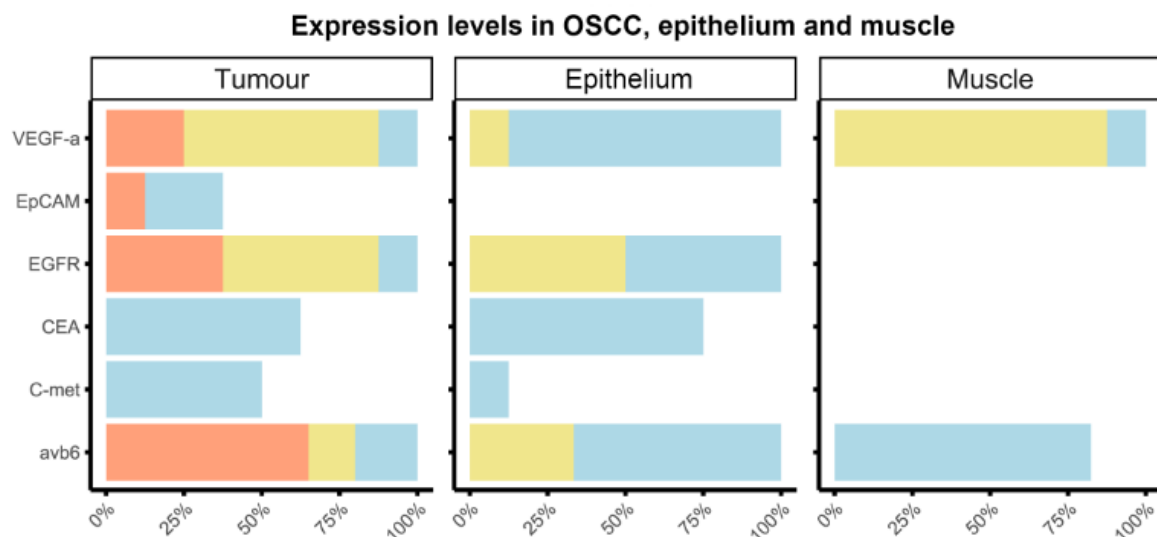
A. OSCC																			
Staining		avb6			C-met			CEA			EGFR			EpCAM			VEGF-a		
Histology	T	E	M	T	E	M	T	E	M	T	E	M	T	E	M	T	E	M	
Absent	-	-	17.6	50	87.5	100	37.5	25	100	-	-	100	62.5	100	100	-	-	-	
Low	20	66.7	82.4	50	12.5	-	62.5	75	-	12.5	50	-	25	-	-	12.5	87.5	12.5	
Moderate	15	33.3	-	-	-	-	-	-	-	50	50	-	-	-	-	62.5	12.5	87.5	
High	65	-	-	-	-	-	-	-	-	37.5	-	-	12.5	-	-	25	-	-	
B. LSCC																			
Staining		avb6			C-met			CEA			EGFR			EpCAM			VEGF-a		
Histology	T	E	M	T	E	M	T	E	M	T	E	M	T	E	M	T	E	M	
Absent	-	-	80	70	90	100	50	30	100	-	-	100	70	80	100	-	-	-	
Low	10	40	20	30	10	-	50	60	-	-	20	-	-	20	-	20	90	40	
Moderate	60	50	-	-	-	-	-	10	-	30	50	-	10	-	-	30	10	60	
High	30	10	-	-	-	-	-	-	-	70	30	-	20	-	-	50	-	-	
C. PTC																			
Staining		avb6			C-met			CEA			EGFR			EpCAM			VEGF-a		
Histology	T	N		T	N		T	N		T	N		T	N		T	N		
Absent	-	60		20	90		100	90		-	20		10	-		-	-		
Low	90	40		60	10		-	10		40	80		-	-		50	100		
Moderate	10	-		20	-		-	-		60	-		30	100		50	-		
High	-	-		-	-		-	-		-	-		60	-		-	-		

Supplementary Table 2: Percentages of samples exhibiting absent, low, moderate and high expression of all six markers in oral (A) and laryngeal (B) squamous cell carcinoma, epithelium, and muscle, and in papillary thyroid carcinoma (C) and healthy thyroid tissue.

T: tumour, E: epithelium, M: muscle, N: normal (thyroid)



Supplementary Figure 1: Marker expression in representative oral squamous cell carcinoma (OSCC) (A), laryngeal squamous cell carcinoma (LSCC)(B) and papillary thyroid carcinoma (PTC)(C). Tumours are outlined in black.



Supplementary Figure 2: Percentages of samples exhibiting absent, low, moderate and high expression of all six markers in oral and laryngeal squamous cell carcinoma, epithelium, and muscle, and in papillary thyroid carcinoma and normal thyroid tissue.