Supplementary Material

	P Value			
Oesophageal Adenocarcinoma Leading Edge				
Percentage Positivity Epithelium	0.78			
Percentage Positivity Stroma	0.75			
Percentage Positivity Epithelium x Stroma	0.83			
Intensity	0.24			
Oesophageal Adenocarcinoma Core				
Percentage Positivity Epithelium	0.48			
Percentage Positivity Stroma	0.007			
Percentage Positivity Epithelium x Stroma	0.46			
Intensity	0.97			
Squamous Cell Carcinoma Leading Edge				
Percentage Positivity Epithelium	0.46			
Percentage Positivity Stroma	0.52			
Percentage Positivity Epithelium x Stroma	0.89			
Intensity	0.86			
Squamous Cell Carcinoma Core				
Percentage Positivity Epithelium	0.57			
Percentage Positivity Stroma	0.50			
Percentage Positivity Epithelium x Stroma	0.39			
Intensity	0.41			

Supplementary	7 Table 1.	Associations	of IL-6R	staining	with s	urvival ir	DAC	and SCC
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Differences of p<0.05 (*), p<0.01 (**) and p<0.001 (***) were considered statistically significant.

Supplementary Table 2. Correlation analysis of tumour differentiation, ratio of positive nodes, pathological T and N stage with IL-6R grading in leading edge and core OAC and SCC samples.

Parameters compared	Adenocarcinoma				Squamous Cell Carcinoma				
	Leading Edge		Core		Leading Edge		Core		
Tumour	p-	R	p-	R	p-	R	p-	R value	
Differentiation	value	value	value	value	value	value	value		
Intensity	0.49	0.08	0.34	0.096	0.28	-0.083	0.74	-0.235	
% Positivity	0.56	0.066	0.86	0.017	0.69	-0.065	0.79	-0.088	
Epithelium									
% Positivity Stroma	0.79	0.03	0.30	0.104	0.55	-0.14	0.58	-0.131	
Ratio of Positive Nodes									
Intensity	0.28	-0.122	0.18	0.136	0.62	0.129	0.60	0.108	

% Positivity	0.53	-0.071	0.98	0.002	0.76	0.302	0.23	0.067
Epithelium								
% Positivity Stroma	0.74	-0.037	0.70	0.039	0.14	0.348	0.15	0.312
Pathological T stage								
Intensity	0.41	0.093	0.80	0.026	0.83	-0.268	0.28	-0.047
% Positivity	0.61	-0.057	0.99	0.04	0.43	-0.041	0.87	-0.172
Epithelium								
% Positivity Stroma	0.67	-0.048	0.98	-0.002	0.72	-0.16	0.52	-0.077
Pathological N Stage								
Intensity	0.54	0.07	0.056	0.193	0.67	-0.093	0.71	0.092
% Positivity	0.56	-0.065	0.66	0.044	0.79	0.035	0.89	-0.058
Epithelium								
% Positivity Stroma	0.80	-0.028	0.51	0.065	0.45	0.076	0.76	-0.164

Results shown are p values from correlation analyses, Differences of p<0.05 (*), p<0.01 (**) and p<0.001 (***) were considered statistically significant.

Supplementary Table 3. Correlation analysis of tumour differentiation, ratio of positive nodes, pathological T and N stage with pSTAT3 grading in leading edge and core OAC and SCC samples

Parameters compared	Adenocarcinoma				Squamous Cell Carcinoma			
	Leadin	eading Edge Core		Leading Edge		Core		
Tumour	p-	R	p-	R	p-	R	p-	R value
Differentiation	value	value	value	value	value	value	value	
Intensity	0.89	-0.017	0.73	0.035	0.44	-0.191	0.42	-0.153
% Positivity	0.56	-0.08	0.79	0.029	0.92	-0.023	0.80	-0.046
Epithelium								
% Positivity Stroma	0.79	0.038	0.23	0.130	0.33	0.23	0.31	-0.199
Ratio of Positive Nodes								
Intensity	0.95	-0.007	0.50	-0.07	0.15	-0.347	0.16	-0.267
% Positivity	0.63	-0.066	0.06	-0.205	0.37	-0.209	0.10	-0.306
Epithelium								
% Positivity Stroma	0.20	0.186	0.54	-0.065	0.76	0.073	0.06	-0.362
Pathological T stage								
Intensity	0.93	0.01	0.87	-0.017	0.45	-0.187	0.23	-0.227
% Positivity	0.31	0.142	0.68	0.045	0.64	-0.109	0.97	0.005
Epithelium								

% Positivity Stroma	0.48	0.488	0.73	0.036	0.58	-0.129	0.81	0.047
Pathological N Stage								
Intensity	0.96	0.006	0.63	-0.05	0.85	0.046	0.36	-0.175
% Positivity	0.93	0.012	0.05	-0.214	0.98	0.003	0.62	0.096
Epithelium								
% Positivity Stroma	0.13	0.217	0.81	-0.026	0.85	0.043	0.25	-0.224

Results shown are p values from correlation analyses, Differences of p<0.05 (*), p<0.01 (**) and p<0.001 (***) were considered statistically significant.



Supplemental Figure 1. Kaplan Meier curves of the association between pSTAT3 percentage positivity in epithelium and mortality in leading edge OAC samples. Data is represented in quartiles. (Quartile 1; \leq 3.5, quartile 2; >3.5 and \leq 4.5, quartile 3; >4.5 and \leq 5, quartile 4; >5). Differences of p<0.05 (*), p<0.01 (**) and p<0.001 (***) were considered statistically significant.



Supplemental Figure 2. Kaplan Meier curves of the association between pSTAT3 percentage positivity in stroma and mortality in core SCC samples. Data is represented in quartiles. (Quartile 1; \leq 3.66, quartile 2; >3.66 and \leq 4, quartile 3; >4 and \leq 4.66, quartile 4; >4.66). Differences of p<0.05 (*), p<0.01 (**) and p<0.001 (***) were considered statistically significant.



Supplementary Figure 3. The effect of pSTAT3 inhibitor STATTIC on pSTAT3 levels in OE33 and OE21 cells. Results are compared to controls treated with M199 medium alone. N=3. Bars denote mean ± standard deviation. P value was estimated using student's t-test. Differences of p <0.05 (*), p <0.01 (**) and p<0.001 (***) were considered statistically significant.