

Table S3a: pathway enrichment analysis by TMB.

	hTMB (53 patients)			lowTMB (89 patients)		
	<i>p</i> -value	FDR	n	<i>p</i> -value	FDR	n
Cell Cycle Pathway	0.0039	0.0432	32	0.9987	0.9993	32
Hippo Pathway	0.6088	0.9993	1	0.8624	0.9993	1
Myc Pathway	0.7234	0.9993	4	0.5143	0.9993	8
Notch Pathway	0.0032	0.0432	14	0.9993	0.9993	7
OxidativeStress_Nrf2 Pathway	0.0341	0.2498	13	0.9888	0.9993	10
PI3K Pathway	0.4674	0.9993	19	0.6721	0.9993	30
RTK_RAS_MAP Pathway	0.7124	0.9993	41	0.4448	0.9993	71
TGFBeta Pathway	0.3127	0.9826	2	0.9499	0.9993	1
P53 Pathway	0.0960	0.4626	44	0.9580	0.9993	64
betaCatenina_Wnt Pathway	0.1051	0.2646	7	0.9684	0.9993	5
DDR Pathway	0.1632	0.5984	16	0.9159	0.9993	19