

Table S2. DNA repair gene expression associated with HDACi mediated radiosensitisation

Log2-transformed mean expression ratios in DU 145, vorinostat treated vs control, of three independent experiments are listed. Genes that were significantly changed in DU 145 (adj P<0.001, LIMMA) and more up- or downregulated in DU 145 than in PC-3 or 22RV1 (P < 0.05, t-test) are included.

24 shaded genes were significantly more altered in DU 145 under both normoxia and hypoxia and included in the radiosensitisation signature.

5 genes in bold were differentially expressed in DU 145 at baseline (normoxia and hypoxia) compared with both PC-3 and 22Rv1.

		Change by vorinostat			
		Normoxia		Hypoxia	
Illumina ProbeID	Gene	Ratio	adj P	Ratio	adj P
ILMN_1713732	ABL1	-0.39	0.00	-0.52	0.00
ILMN_1690252	ALKBH2	0.43	0.00	0.44	0.00
ILMN_1712019	ANKRD17	-0.38	0.01	-0.32	0.00
ILMN_1661886	APEX1	-0.86	0.00	-0.67	0.00
ILMN_2317348	APTX	0.41	0.00	0.21	0.17
ILMN_1711823	C17orf70	0.14	0.24	0.52	0.00
ILMN_1655485	C1orf124	-0.44	0.00	-0.49	0.00
ILMN_1676631	CCNO	-0.60	0.00	-0.38	0.00
ILMN_1748883	CDKN2D	0.92	0.00	0.94	0.00
ILMN_1760593	CRY1	0.49	0.00	0.51	0.00
ILMN_1720708	CSNK1D	-0.55	0.00	-0.74	0.00
ILMN_1695792	CUL4A	-0.50	0.00	-0.71	0.00
ILMN_1811616	EEP1	0.34	0.00	0.26	0.01
ILMN_1797172	ERCC1	0.31	0.00	0.30	0.01
ILMN_1682747	FANCA	-0.30	0.00	-0.20	0.08
ILMN_1701455	FBXO6	-0.32	0.00	-0.34	0.01
ILMN_2052208	GADD45A	0.76	0.00	0.68	0.00
ILMN_1726693	GTF2H1	-0.24	0.00	-0.38	0.00
ILMN_1660582	LIG3	-0.59	0.00	-0.41	0.00
ILMN_2325394	MSH5	0.41	0.00	0.41	0.01
ILMN_1695797	NCOA6	-0.18	0.24	-0.68	0.00
ILMN_1715680	NEIL2	-0.70	0.00	-0.69	0.00
ILMN_1757697	NEIL3	-0.66	0.00	-0.69	0.00
ILMN_2052790	NONO	-0.14	0.09	-0.27	0.01
ILMN_1756793	POLS	-0.37	0.00	-0.65	0.00

ILMN_2321634	RAD17	0.31	0.00	0.40	0.00
ILMN_2221006	RAD21	-0.20	0.09	-0.44	0.00
ILMN_1751571	RAD23A	-0.29	0.00	-0.19	0.09
ILMN_2238928	RAD51C	0.26	0.03	0.48	0.01
ILMN_1739101	RBBP8	-0.35	0.00	-0.11	0.44
ILMN_1700604	RBM14	-0.56	0.00	-0.78	0.00
ILMN_1680850	RECQL	0.17	0.02	0.66	0.00
ILMN_2395474	REV1	-0.26	0.00	-0.29	0.01
ILMN_2217935	RFC1	0.47	0.00	0.24	0.23
ILMN_1716895	RPA3	0.55	0.00	0.80	0.00
ILMN_1770339	RPAIN	0.08	0.34	0.55	0.00
ILMN_1712678	RPS27L	0.68	0.00	0.81	0.00
ILMN_1804642	SMUG1	0.71	0.00	0.69	0.00
ILMN_2233099	SSRP1	-0.40	0.00	-0.57	0.00
ILMN_2331231	TNFRSF6B	-1.32	0.00	-1.13	0.00
ILMN_1779356	TP53	-0.80	0.00	-0.56	0.03
ILMN_1706455	TTC5	0.29	0.00	0.48	0.00
ILMN_1793651	UBE2N	0.63	0.00	0.50	0.00
ILMN_1691188	UIMC1	-0.32	0.00	-0.44	0.00
ILMN_1683120	UNG	-1.23	0.00	-1.25	0.00
ILMN_1761069	UVRAG	-0.19	0.02	-0.29	0.00
ILMN_1777220	VCP	-0.23	0.01	-0.55	0.00
ILMN_1670172	WDR33	0.67	0.00	0.74	0.00
ILMN_1679881	WRN	-0.33	0.00	-0.15	0.09
ILMN_1743097	XRCC6	-0.37	0.00	-0.54	0.00
ILMN_1767481	XRCC6BP1	0.50	0.00	0.83	0.00