

Table S3. Chromatin organization 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.

32 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_1813840	AOF2	0.43	0.00	0.23	0.05
ILMN_1797341	ARID1A	-0.40	0.07	-0.66	0.00
ILMN_1773117	BCOR	-0.18	0.33	-0.35	0.01
ILMN_1700915	BMI1	0.52	0.00	0.39	0.00
ILMN_1724658	BNIP3	-0.36	0.01	-0.40	0.00
ILMN_1667928	BRDT	0.23	0.08	0.35	0.01
ILMN_1790136	C20orf20	-0.72	0.00	-0.78	0.00
ILMN_1680134	CARM1	-0.44	0.00	-0.51	0.00
ILMN_1762972	CHD9	-0.35	0.09	-0.50	0.00
ILMN_1809583	CREBBP	-0.69	0.00	-0.89	0.00
ILMN_1665164	CTR9	0.27	0.04	0.37	0.01
ILMN_2378952	GPX4	0.35	0.01	0.48	0.00
ILMN_1757467	H1FO	1.10	0.00	1.38	0.00
ILMN_1773964	H1FX	0.49	0.03	0.74	0.00
ILMN_1708728	H2AFJ	0.78	0.00	0.73	0.00
ILMN_1706784	H2AFV	0.37	0.03	0.49	0.00
ILMN_1705570	H2AFY2	-1.30	0.00	-1.62	0.00
ILMN_2106331	H3F3A	0.14	0.48	0.33	0.01
ILMN_1695706	H3F3B	0.80	0.00	0.77	0.00
ILMN_1727458	HDAC1	0.79	0.00	1.33	0.00
ILMN_3266186	HDAC7	-0.30	0.00	-0.25	0.01
ILMN_1757406	HIST1H1C	1.33	0.00	0.95	0.00
ILMN_1792689	HIST1H2AC	0.80	0.00	0.65	0.07
ILMN_1680937	HIST1H2BC	0.55	0.00	0.51	0.01
ILMN_1651496	HIST1H2BD	1.54	0.00	1.16	0.00

ILMN_1687947	HIST1H2BE	0.32	0.01	0.25	0.07
ILMN_1716195	HIST1H2BG	0.46	0.00	0.64	0.00
ILMN_1796179	HIST1H2BK	0.52	0.00	0.50	0.03
ILMN_1788489	HIST1H3F	0.43	0.07	0.48	0.00
ILMN_1726815	HIST1H3G	0.30	0.01	0.55	0.00
ILMN_1749368	HIST1H3H	0.58	0.00	0.43	0.00
ILMN_1751120	HIST1H4H	0.99	0.00	0.78	0.04
ILMN_2144426	HIST2H2AA3	0.95	0.00	0.24	0.66
ILMN_1768973	HIST2H2AC	0.77	0.00	0.24	0.49
ILMN_1732071	HIST2H2BE	0.63	0.00	0.33	0.27
ILMN_2115340	HIST2H4A	1.25	0.00	1.26	0.00
ILMN_3238233	HIST2H4B	0.90	0.00	0.98	0.00
ILMN_1798588	HLTF	0.51	0.00	0.61	0.00
ILMN_1651315	HMG20B	-0.66	0.00	-0.86	0.00
ILMN_2381603	ING3	0.16	0.30	0.29	0.00
ILMN_1755911	ING5	-0.44	0.00	-0.35	0.00
ILMN_1722532	JMJD1A	-0.41	0.00	-0.64	0.00
ILMN_1782247	KAT2A	-0.88	0.00	-0.68	0.00
ILMN_1706539	KDM3B	-0.69	0.00	-0.67	0.00
ILMN_2336109	L3MBTL2	-0.64	0.00	-0.44	0.00
ILMN_3192316	LOC100129237	-0.60	0.00	-0.54	0.02
ILMN_3265797	LOC100130561	0.39	0.05	0.53	0.00
ILMN_3284119	LOC399804	-0.43	0.00	-0.45	0.00
ILMN_1702585	LOC646817	-0.86	0.00	-0.53	0.00
ILMN_3227604	LOC729342	-0.35	0.00	-0.13	0.22
ILMN_1698491	MBD3	-0.55	0.00	-0.50	0.00
ILMN_1773763	MTA2	-0.39	0.01	-0.42	0.01
ILMN_1699208	NAP1L1	-0.30	0.10	-0.53	0.00
ILMN_1773307	NAP1L5	0.71	0.00	0.70	0.00
ILMN_1692651	PHB	0.50	0.00	0.67	0.00
ILMN_1795285	PHF15	-0.46	0.01	-0.61	0.00
ILMN_2403889	PRMT5	-0.36	0.01	-0.04	0.81
ILMN_1700604	RBM14	-0.56	0.00	-0.78	0.00
ILMN_1666399	RING1	0.56	0.00	0.37	0.00
ILMN_1723494	SIRT2	0.48	0.00	0.57	0.00
ILMN_2376263	SMARCA1	-0.42	0.01	-0.70	0.00
ILMN_1741954	SMYD3	0.39	0.01	0.15	0.18
ILMN_1813277	SUPT3H	-0.43	0.00	-0.27	0.02

ILMN_1766245	SUPT4H1	0.10	0.43	0.41	0.00
ILMN_1781479	SUV39H1	-0.78	0.00	-0.80	0.00
ILMN_1674866	TADA3	0.26	0.05	0.44	0.00
ILMN_1653367	TAF12	0.14	0.53	0.38	0.00
ILMN_1811029	TLK1	-0.37	0.00	-0.43	0.00
ILMN_1663486	TLK2	-0.55	0.00	-0.30	0.09
ILMN_1660368	TRRAP	-0.53	0.12	-0.62	0.00
ILMN_1779014	TSPYL1	0.89	0.00	0.71	0.00
ILMN_1693635	TSPYL2	0.30	0.03	0.33	0.01
ILMN_1806778	UBE2E1	-0.36	0.03	-0.40	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_1780887	USP21	-0.45	0.00	-0.31	0.00
ILMN_1666609	USP22	0.02	1.00	-0.41	0.00
ILMN_1745423	UTP3	0.44	0.00	0.55	0.01