

Northcott et al. Supplementary Table 5c

GSEA: Chemical & Genetic Perturbations --- Enriched in Group C vs Non-Group C					
#	Gene Set Name	Description	NES	pVal	FDR qValue
1	POMEROY_DESMOPLASIC_VS_CLASSIC_MD_DN	Genes expressed in classic medulloblastomas. (p < 0.01)	1.614	0.010	1.000
2	MYC_TARGETS	Myc-responsive genes reported in multiple systems	1.602	0.014	0.987
3	TSA_CD4_UP	Up-regulated in mouse CD4+ T-cells following 4 hour treatment with 100 nM trichostatin A	1.446	0.085	1.000
4	MENSSEN_MYC_UP	Genes up-regulated by MYC in HUVEC (umbilical vein endothelial cell)	1.442	0.106	1.000
5	ROTH_HTERT_DIFF	Expression of selected genes involved in DNA repair and cell-cycle control in hTERT-transduced T cells	1.437	0.070	1.000
6	UVB_NHEK4_24HRS_DN	Downregulated at 24 hours by UV-B light in normal human epidermal keratinocytes	1.417	0.095	1.000
7	GENOTOXINS_4HRS_DISCR	Group of genes whose regulation pattern significantly discriminates between direct (cisplatin, methyl methanesulfonate, mitomycin C) and indirect (taxol, hydroxyurea, etoposide) genotoxins, 4 hours following treatment of mouse lymphocytes (TK 3.7.2C)	1.410	0.035	1.000
8	FLECHNER_KIDNEY_TRANSPLANT_WELL_DN	Genes downregulated in well functioning transplanted kidney biopsies from stable, immunosuppressed recipients relative to normal healthy donor kidney biopsies (median FDR < 0.16% per comparison).	1.406	0.090	1.000
9	4NQO_UNIQUE_FIBRO_UP	Up-regulated at any timepoint by treatment of human fibroblasts with 4-nitroquinoline-1-oxide (4NQO), but not by UV or gamma radiation	1.393	0.060	1.000
10	ABRAHAM_AL_VS_MM_DN	Genes with significantly lower average gene expression in AL plasma cells than in MM cells	1.370	0.095	1.000
11	BRCA_BRCA1_POS	Genes whose expression is consistently positively correlated with brca1 germline status in breast cancer - higher expression is associated with sporadic tumors	1.363	0.067	1.000
12	COLLER_MYC_UP	Genes up-regulated by MYC in 293T (transformed fetal renal cell).	1.351	0.134	1.000
13	ABRAHAM_MM_VS_AL_UP	Genes highly expressed in multiple myeloma (MM) versus immunoglobulin light chain amyloidosis (AL) in plasma cells.	1.343	0.113	1.000
14	MOREAUX_TACI_HI_IN_BMPC	BMPC genes overexpressed in TACI high patients	1.342	0.100	1.000
15	HDACI_COLON_CUR24HRS_UP	Upregulated by curcumin at 24 hrs in SW260 colon carcinoma cells	1.325	0.148	1.000
16	HDACI_COLON_CUR2HRS_UP	Upregulated by curcumin at 2 hrs in SW260 colon carcinoma cells	1.320	0.121	1.000
17	ET743_RESIST_DN	Down-regulated in two Et-743-resistant cell lines (chondrosarcoma and ovarian carcinoma) compared to sensitive parental lines	1.297	0.132	1.000
18	HIPPOCAMPUS_DEVELOPMENT_PRENATAL	Highly expressed in prenatal mouse hippocampus (cluster 1)	1.268	0.202	1.000
19	HOFMANN_MDS_CD34_LOW_RISK	Genes differentially expressed in CD34 cells from patients with low-risk MDS compared with healthy controls	1.264	0.156	1.000
20	UV-4NQO_FIBRO_UP	Up-regulated at any timepoint by treatment of human fibroblasts with UV light or 4-NQO, but not by gamma radiation	1.248	0.190	1.000