

Northcott et al. Supplementary Table 5e

GSEA: Chemical & Genetic Perturbations --- Enriched in Group C vs Group D					
#	Gene Set Name	Description	NES	pVal	FDR qValue
1	IDX_TSA_UP_CLUSTER4	Progressively up-regulated from 8-48 hours during differentiation of 3T3-L1 fibroblasts into adipocytes with IDX (insulin, dexamethasone and isobutylxanthine), vs. fibroblasts treated with IDX + TSA to prevent differentiation (cluster 4)	1.787	0.002	0.297
2	5FU_RESIST_GASTRIC_DN	Downregulated in gastric cancer cell lines resistant to 5-fluorouracil, compared to parent chemosensitive lines	1.755	0.000	0.253
3	TSA_CD4_UP	Up-regulated in mouse CD4+ T-cells following 4 hour treatment with 100 nM trichostatin A	1.730	0.006	0.250
4	POMEROY_MD_TREATMENT_GOOD_VS_POOR_DN	Genes highly associated with medulloblastoma treatment failure	1.701	0.002	0.291
5	TPA_SENS_EARLY_UP	Upregulated by TPA at two consecutive timepoints between 15min-3hrs in sensitive HL-60 cell	1.654	0.008	0.458
6	PENG_LEUCINE_DN	Genes downregulated in response to leucine starvation	1.633	0.012	0.516
7	AGUIRRE_PANCREAS_CHR19	Genes on chromosome 19 with copy-number-driven expression in pancreatic adenocarcinoma.	1.622	0.067	0.513
8	MYOD_BRG1_UP	Genes up-regulated following transduction of MyoD in NIH 3T3 cells that fail to achieve full induction with expression of a dominant-negative BRG1 allele; induction thought to require functional BRG1	1.607	0.019	0.539
9	COLLER_MYC_UP	Genes up-regulated by MYC in 293T (transformed fetal renal cell).	1.603	0.032	0.503
10	MYC_ONCOGENIC_SIGNATURE	Genes selected in supervised analyses to discriminate cells expressing c-Myc oncogene from control cells expressing GFP.	1.592	0.025	0.511
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#	Name	Description	NES	pVal	FDR qValue
1	HOFMANN_MDS_CD34_HIGH_RISK	Genes differentially expressed in CD34 cells from patients with high-risk MDS compared with healthy controls	-1.783	0.000	0.189
2	BRENTANI_DNA_METHYLATION_AND_MODIFICATION	Cancer related genes involved in DNA methylation and modification	-1.668	0.012	0.604
3	AGED_MOUSE_HIPPOCAMPUS_MULTI_UP	Up-regulated in the hippocampus of 16-month aged mice from at least two of four strains (S8, S10, SR1, B6J), versus 3-month young controls	-1.575	0.008	1.000
4	INSULIN_ADIP_INSENS_DN	Down-regulated by insulin in murine adipocytes, and continue to respond following induction of insulin-resistance with TNFalpha treatment	-1.574	0.042	0.994
5	NI2_MOUSE_DN	Downregulated by nickel(II) in sensitive A/J mouse lung tissue	-1.564	0.014	0.884
6	HUMAN_TISSUE_PLACENTA	Genes expressed specifically in human placental tissue	-1.552	0.043	0.833
7	UV-4NQO_FIBRO_DN	Down-regulated at any timepoint by treatment of human fibroblasts with UV light or 4-NQO, but not by gamma radiation	-1.540	0.034	0.807
8	GH_EXOGENOUS_LATE_UP	Up-regulated at late time points (12-24 hours) following treatment of mammary carcinoma cells (MCF-7) with exogenous human growth hormone	-1.515	0.040	0.899
9	COCAINE_BRAIN_5D_UP	Up-regulated in the nucleus accumbens of mice after 5 days of cocaine treatment	-1.488	0.024	1.000
10	POMEROY_MD_TREATMENT_GOOD_VS_POOR_UP	Genes highly associated with favorable response to treatment for medulloblastoma	-1.478	0.061	1.000