

Northcott et al. Supplementary Table 5d

GSEA: Chemical & Genetic Perturbations --- Enriched in Group D vs Non-Group D					
Rank	Gene Set 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	1.736	0.006	0.186
<b>2</b>	<b>AGUIRRE_PANCREAS_CHR17</b>	<b>Genes on chromosome 17 with copy-number-driven expression in pancreatic adenocarcinoma.</b>	<b>1.734</b>	<b>0.010</b>	<b>0.095</b>
3	BRENTANI_DNA_METHYLATION_AND_MODIFICATION	Cancer related genes involved in DNA methylation and modification	1.679	0.006	0.153
4	SHIPP_DLBCL_CURED_UP	Genes upregulated in cured diffuse B-cell lymphoma (DLBCL) and downregulated in fatal/refractory diffuse B-cell lymphomas (DLBCL) (fold change ? 3)	1.646	0.012	0.179
5	HEARTFAILURE_ATRIA_UP	Upregulated in atria of failing hearts (DCM and ICM) compared to healthy controls	1.630	0.020	0.183
6	MARSHALL_SPLEEN_BAL	Genes downregulated in influenza-specific CD8+ T cells isolated from spleen as compared to those from bronchoalveolar lavage (BAL) during influenza pneumonia in mice.	1.442	0.047	1.000
7	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	1.438	0.042	0.979
8	HINATA_NFKB_DN	Genes downregulated by NF-kappa B	1.398	0.100	1.000
9	CMV_HCMV_TIMECOURSE_18HRS_UP	Up-regulated in fibroblasts following infection with human cytomegalovirus (at least 3-fold, with Affymetrix change call, in at least two consecutive timepoints), with maximum change at 18 hours	1.394	0.098	1.000
10	CANCERDRUGS_PROBCELL_UP	Up-regulated by at least two of four cancer drugs (cisplatin, camptothecin, methotrexate and/or paclitaxel) in pro-B cells (FL5.12)	1.389	0.097	0.986
11	MAGRANGEAS_MULTIPLE_MYELOMA_A_IGL_VS_IGK_DN	Genes downregulated in multiple myeloma plasma cells that secrete the light chain immunoglobulin Ig-lambda versus those that secrete Ig-kappa.	1.380	0.095	0.951
12	AGED_MOUSE_HIPPOCAMPUS_MU_LTI_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	1.361	0.089	0.997
13	WONG_IFNA_HCC_RESISTANT_VS_SENSITIVE_UP	Genes highly expressed in interferon-resistant hepatoma cell lines (HKCl-C1-3) vs. sensitive cell lines (HKCl-1-4, HepG2, Hep3B, PCL/PRF/5)	1.355	0.102	0.955
14	COCAINE_BRAIN_5D_UP	Up-regulated in the nucleus accumbens of mice after 5 days of cocaine treatment	1.351	0.083	0.908
15	HUMAN_TISSUE_THYMUS	Genes expressed specifically in human thymus tissue	1.340	0.131	0.906
16	AGED_MOUSE_HIPPOCAMPUS_ANY_DN	Down-regulated in the hippocampus of 16-month aged mice from any of four strains (S8, S10, SR1, B6J), versus 3-month young controls	1.335	0.100	0.877
17	DFOSB_BRAIN_8WKS_UP	Up-regulated in the nucleus accumbens of mice after 8 weeks of induction of transgenic deltaFosB	1.324	0.105	0.879
18	WANG_HOXA9_VS_MEIS1_UP	Genomic signature of progenitors immortalized by Hoxa9 versus Hoxa9 plus Meis1 Increased expression in Hoxa9-immortalized progenitors	1.313	0.132	0.887
19	GH_EXOGENOUS_ANY_DN	Down-regulated at any time point (1-24 hours) following treatment of mammary carcinoma cells (MCF-7) with exogenous human growth hormone	1.312	0.072	0.844
20	DAC_IFN_BLADDER_UP	Interferon-regulated genes upregulated by DAC treatment in T24 bladder carcinoma cells	1.311	0.176	0.809