Simvastatin
q-value <= 0.05
Up in disease, down with treatment
AMIT SERUM RESPONSE 40 MCF10A'
FERRANDO T ALL WITH MLL ENL FUSION DN'
RUZ TNC TARGETS DN'
CROONQUIST IL6 DEPRIVATION DN'
Down in disease, up with treatment
LI ADIPOGENESIS BY ACTIVATED PPARG'

Type 2 Diabetes Mellitus

Sirolimus
q-value <= 0.01
Up in disease, down with treatment
KEGG SPLICEOSOME'
MIPS SPLICEOSOME'
MIPS C COMPLEX SPLICEOSOME'
REACTOME PROCESSING OF CAPPED INTRON CONTAINING PRE MRNA'
REACTOME TRANSPORT OF MATURE TRANSCRIPT TO CYTOPLASM'
REACTOME MRNA PROCESSING'
REACTOME MRNA SPlicing'
REACTOME MRNA 3 END PROCESSING'
REACTOME CLEAVAGE OF GROWING TRANSCRIPT IN THE TERMINATION REGION'

AML

PICCALUGA ANGIOIMMUNOBLASTIC LYMPHOMA

'Down-regulated genes in angioimmunoblastic lymphoma (AILT) compared to normal T lymphocytes.'

GARY CD5 TARGETS DN'

'Genes down-regulated in Daudi cells (B lymphocytes) stably expressing CD5 [GeneID=921] off a plasmid vector.'

GINESTIER BREAST CANCER 20Q13 AMPLIFICATION DN'

'Genes down-regulated in metastatic breast cancer tumors having type 2 amplification in the 20q13 region; involves MYBL2, STK6 and ZNF217 [GeneID=4605;6790;7764]'

RODRIGUES THYROID CARCINOMA POORLY DIFFERENTIATED UP'

'Genes up-regulated in poorly differentiated thyroid carcinoma (PDTC) compared to normal thyroid tissue.'

RODRIGUES THYROID CARCINOMA ANAPLASTIC UP'

'Genes down-regulated in T helper cells (defines as CD4+) isolated from patients with mucosis fungoides compared to those from normal control donors.'

HAHTOLA MYCOSIS FUNGOIDES CD4 DN'

'Genes down-regulated in NHEK cells (normal epidermal keratinocytes) after UVB irradiation.'

ENK UV RESPONSE KERATINOCYTE DN'

'Genes down-regulated in ME-A cells (breast cancer, sensitive to apoptotic stimuli) exposed to doxorubicin [PubChem=31703] in the presence of medium concentrate (MC) from ME-C cells (breast cancer, resistant to apoptotic stimuli).'

GRAESSMANN RESPONSE TO MC AND DOXORUBICIN DN'

'Genes up-regulated in T1 cells (primary melanoma, sensitive to TRAIL [GeneID=8743]) compared to G1 cells (metastatic melanoma, resistant to TRAIL).'

HAMAI APOPTOSIS VIA TRAIL UP'

'Genes changed in xenograft tumors formed by DLD-1 or DKO-4 cells (colon cancer) overexpressing MET [GeneID=4233].'

SEIDEN ONCOGENESIS BY MET'

'Cluster 7: genes up-regulated in B493-6 cells (B lymphocytes) by MYC [GeneID=4609] and down-regulated by the combination of MYC and serum.'

SCHLOSSER MYC TARGETS REPRESSED BY SERUM'

'Common down-regulated transcripts in fibroblasts expressing either XP/CS or TDD mutant forms of ERCC3 [GeneID=2071], after UVC irradiation.'

DACOSTA UV RESPONSE VIA ERCC3 COMMON DN'

'Common down-regulated transcripts in fibroblasts expressing either XP/CS or TDD mutant forms of ERCC3 [GeneID=2071], after UVC irradiation.'
'Early prostate development genes (down-regulated at 6 hr dihydrotestosterone

(Schaeffer prostate development and cancer box4 DN')

which are also down-regulated in localized vs metastatic prostate cancers.'

('Genes whose expression positively correlated with that of SMARCA2 [GeneID=6595] in

(Shen smarca2 targets up')

prostate cancer samples.'

('Genes up-regulated in P493-6 cells (Burkitt's

(Schuhmacher myc targets up')

lymphoma) induced to express MYC

[GeneID=4609].'

('Genes down-regulated in BJAB cells (B-

(Peng glutamine deprivation DN')

lymphoma) after glutamine [PubChem=738] deprivation.'

('Top genes up-regulated in MM4 vs MM1

(Zhan multiple myeloma subgroups')

subgroup of multiple myeloma samples.'

('Down-regulated genes distinguishing in

(Moreaux multiple myeloma by tacI DN')

multiple myeloma (MM) samples with lower

expression of TACI [GeneID=23495].'

('Genes whose CpG islands showed greatly

(Nouzoa tretinoin and H4 acetylation')

increased histone H4 acetylation in NB4 cells

(acute promyelocytic leukemia, APL) upon

treatment with tretinoin [PubChem=5538].'

('Genes up-regulated in HEK293 cells

(DeBiasi apoptosis by reovirus infection up')

(embryonic kidney) at 6 h, 12 h or 24 h after

infection with reovirus strain T3A (known as a

strong inducer of apoptosis).'

('Genes enriched in embryonic, neural and

(Ramalho stemness up')

hematopoietic stem cells.'

('Genes down-regulated in NHEK cells (normal keratinocytes) by UV-B irradiation.'

(Dazard response to UV NHEK DN')

'Cluster G6: genes increasingly down-regulated

in NHEK cells (normal keratinocyte) after UV-B irradiation.'

('Genes down-regulated in SaOS-2 cells

(De YY1 targets DN')

(osteosarcoma) upon knockdown of YY1

[GeneID=7528] by RNAi.'

('Genes up-regulated 9 h after induction of

(Chen HOX5 targets 9hr up')

HoxA5 [GeneID=3205] expression in a breast cancer cell line.'

('Genes down-regulated in neural stem cells

(Zhang TLX targets 36hr DN')

(NSC) at 36 h after cre-lox knockout of TLX

(NR2E1) [GeneID=7101].'
WENDT COHESIN TARGETS UP' 'Cohesin targets identified by ChIP-chip which were up-regulated after knockdown of CTCF and RAD21 [GeneID=10664;5885] by RNAi.'

MILI PSEUDOPODIA HAPTOTAXIS UP' 'Transcripts enriched in pseudopodia of NIH/3T3 cells (fibroblast) in response to haptotactic migratory stimulus by fibronectin, FN1 [GeneID=2335].'

THILLAINADESAN ZNF217 TARGETS UP' 'Genes bound and activated by ZNF217 [GeneID=7764] in MCF7 cells (breast cancer).'

JOHNSTONE PARVB TARGETS 2 DN' 'Genes down-regulated upon overexpression of PARVB [GeneID=29780] in MDA-MB-231 cells (breast cancer) cultured in 3D collagen I and 3D Matrigel only.'

Down in disease, up with treatment

KEGG GRAFT VERSUS HOST DISEASE' 'Graft-versus-host disease'

REACTOME METABOLISM OF STEROID HORMONES AND VITAMINS A AND D' 'Genes involved in Metabolism of steroid hormones and vitamins A and D'

REACTOME EXTRACELLULAR MATRIX ORGANIZATION' 'Genes involved in Extracellular matrix organization'

REACTOME PEPTIDE LIGAND BINDING RECEPTORS' 'Genes involved in Peptide ligand-binding receptors'

PICCALUGA ANGIOIMMUNOBLASTIC LYMPHOMA UP' 'Up-regulated genes in angioimmunoblastic lymphoma (AILT) compared to normal T lymphocytes.'

SENGUPTA NASOPHARYNGEAL CARCINOMA WITH LMP1 DN' 'Genes down-regulated in nasopharyngeal carcinoma (NPC) positive for LMP1 [GeneID=9260], a latent gene of Epstein-Barr virus (EBV).'

JAEGGER METASTASIS DN' 'Genes down-regulated in CD34+ [GeneID=947] hematopoetic cells by expression of NUP98-HOXA9 fusion [GeneID=4928;3205] off a retroviral vector at 8 days after transduction.'

TAKEDA TARGETS OF NUP98 HOXA9 FUSION 8D DN' 'Genes down-regulated in CD34+ [GeneID=947] hematopoetic cells by expression of NUP98-HOXA9 fusion [GeneID=4928;3205] off a retroviral vector at 10 days after transduction.'
TAKEDA TARGETS OF NUP98
HOXA9 FUSION 16D DN'

'Genes down-regulated in CD34+ [GeneID=947] hematopoietic cells by expression of NUP98-HOXA9 fusion [GeneID=4928;3205] off a retroviral vector at 16 days after transduction.'

SABATES COLORECTAL ADENOMA UP'

'Genes up-regulated in colorectal adenoma compared to normal mucosa samples.'

'Genes down-regulated in CD133+

JAATINEN HEMATOPOIETIC STEM CELL DN'

[GeneID=8842] cells (hematopoietic stem cells, HSC) compared to the CD133- cells.'

'Genes identified by subtractive hybridization comparing malignant and benign components of a hepatocellular carcinoma (HCC) in a pre-existing liver adenoma in a morphologically normal liver.'

CAVARD LIVER CANCER MALIGNANT VS BENIGN'

TARTE PLASMA CELL VS PLASMA BLAST UP'

'Genes up-regulated in mature plasma cells compared with plasmablastic B lymphocytes.'

'Genes down-regulated in hematopoietic precursor cells conditionally expressing HOXA9 and MEIS1 [GeneID=3205;4211].'

'Genes down-regulated during in vitro maturation of CD14+ [GeneID=929] monocytes (day 0) into immature (day 7) and mature dendritic cells (day 14).'

'Genes up-regulated at 6 months of age in lungs from LIPA [GeneID=3988] knockout mice, which display pulmonary pathology.'

'Genes up-regulated at 3 months of age in lungs from LIPA [GeneID=3988] knockout mice, which display pulmonary pathology.'

'Genes down-regulated in pulpal tissue extracted from carious teeth.'

'Genes up-regulated in pulpal tissue extracted from carious teeth.'

'Genes down-regulated in the luminal B subtype of breast cancer.'

'Genes up-regulated in ex-vivo colonic tissue after treatment with IL22 [GeneID=50616].'

'Tumorigenesis markers of head and neck squamous cell carcinoma (HNSCC): up-regulated in the "early" tumors vs normal samples.'
'Top 100 probe sets contributing to the positive side of the 1st principal component; predominantly associated with spindle cell and pleomorphic sarcoma samples.'