Table S6. Gene set enrichment analysis of the change of gene expression profiles in response to LPA (2 hours).								
MILI_PSEUDOPODIA_HAPTOTAXIS_UP	Size ES 408 0.296115	NES 3.01573	nominal p	FDR 0.0005	Transcripts enriched in pseudopodia of NIH/3T3 cells (fibroblast) in response to haptotactic migratory stimulus by fibronetic, Fix II (Sene ID-2335).			
MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP	248 0.343568		0.0001	0.00265	Industrips enriched in pseudopoid of infryst is easy (introdustry in response to naproductive, lingstory stimulus by northered in yelder (interest).  The postradiation tumor escape signature: genes up-regulated in tumors from irradiated stroma sy those from non-irradiated stroma.			
SWEET_LUNG_CANCER_KRAS_UP	430 0.233234	2.42633	0.0001	0.0275667	Genes up-regulated in the mouse lung cancer model with mutated KRAS [Gene ID=3845].			
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_14	116 -0.38387 74 0.443047		0.0029		Hepatic graft versus host disease (GVHD), day 35: genes up-regulated in allogeneic vs syngeneic bone marrow transplant.  Genes co-regulated in uterus during a time course response to propsectrone [PubChems 14.4.			
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_TRANS	866 0.145075		0.0043		uenes co-regulated in uterus during a time course response to progesterone (Publ.neme-1994); SUM duster 1 a. (Quantitative trait locus) not in a close proximity to the gene).  Transcripts in Mematopoletic Iscene cells (HSC) Which are trans-regulated (i.e., modulated by a QTI (Quantitative trait locus) not in a close proximity to the gene).			
FOSTER INFLAMMATORY RESPONSE LPS DN	316 0.222761	2.00806	0.0053	0.16045	Genes down-regulated by bacterial lipopolysaccharide (LPS) in non-tolerizeable (NT class) macrophages, compared to the ???tolerizeable??? (T class) ones.			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_11	80 0.39436	1.94847	0.0101	0.16045	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 11.			
BERENJENO_TRANSFORMED_BY_RHOA_UP MILL PSEUDOPODIA HAPTOTAXIS DN	435 0.184184 506 0.17242		0.0083	0.16045	Genes up-regulated in NIH3T3 cells (fibroblasts) transformed by expression of contitutively active (QG3L) form of RH (DG Gene ID=387) off plasmid vector.  **Transcriots depicted from pseudoogid on PIH/3T3 cells (fibroblast) in resonose to hadrotactic inleratory stimulus by fibrogrine PIM (Gene ID=381).			
MARTINEZ_RB1_TARGETS_UP	753 0.140523		0.0073		i ranscripts depieted from pseudopous or intrysts cests (turouss) in response trapported to regional control of the response trapported from the response trappor			
BERENJENO ROCK SIGNALING NOT VIA RHOA DN	55 0.440236	1.89055	0.013	0.16045	Genes down-regulated in NIH3T3 cells (fibroblasts) after treatment with Y27632 [PubChem=123862], an inhibitor of ROCK proteins; the changes did not depend on expression of constitutively active (Q631) form of RHOA [Gene ID=387].			
MCCLUNG_DELTA_FOSB_TARGETS_8WK	59 0.430979 87 -0.3675	1.8902	0.0154	0.16045	Genes up-regulated in the nucleus accumbers (a major reward center in brain) 8 weeks after induction of deltafost8, a FOS8 [Gene ID-2354] splice variant.  Genes co-regulated in uterus during a time course response to progesterone (PubChem-9599): SOM cluster 15. SOM cluster 15.			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16 PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_UP	181 0.26373		0.0133		uenes co-regulated in uterus during a time couris response to progesterone   Publichem=3994 : SUM CIUSTER OF THE PUBLICATION   Public P			
BERENJENO_TRANSFORMED_BY_RHOA_DN	385 -0.1791	-1.77603	0.0176	0.224841	Genes down-regulated in NIH3T3 cells (fibroblasts) transformed by expression of contitutively active (Q63L) form of RHOA [Gene ID=387] off plasmid vector.			
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_DN	49 -0.43292	-1.76496	0.0232	0.224841	Down-regulated 'cooperation response genes': responded synergystically to the combination of mutant TP53 [Gene ID=7157] and HRAS [Gene ID=3265] in YAMC cells (colon).			
KENNY_CTNNB1_TARGETS_DN IWANAGA_CARCINOGENESIS_BY_KRAS_UP	66 0.378515 156 0.264002		0.0292	0.231579	Genes down-regulated in HCI1 cells (mammary epithelium) by expression of constantly active CTNN81 (Gene ID-1499).  Cluster 3 genes up-regulated in Incli issue samples from line with tumor-bearing genotypes (activated RMAS (Gene ID-1499).			
SEKI_INFLAMMATORY_RESPONSE_LPS_UP OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	72 0.359582	1.73200	0.0225	0.242062	Cosset a, general uphragical manigrosse samples mornime with understanding general properties activated with Openier 10-20-03 stone of openier with mactivated PTLN (dente 10-27-28)).  Genes up-regionated in legals: Cells are stimulation with bacterial lipopolysicarbaide (IPS).			
OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	138 0.271968		0.0288	0.242062	Genes up-regulated in epithelial ovarian cancer (EOC) biopsies: invasive (TOV) vs low malignant potential (LMP) tumors.			
MCBRYAN_PUBERTAL_BREAST_6_7WK_DN SWEET_LUNG_CANCER_KRAS_DN	74 0.34882 411 0.162043		0.0357		Genes down-regulated during pubertal mammary gland development between week 6 and 7. Genes down-regulated in the mouse build cause from a constance of the cons			
ZHANG_BREAST_CANCER_PROGENITORS_UP	279 0.192776	1.63715	0.0363	0.271865	Genes changed in cancer stem cells located from mammary tumors compared to the non-tumorigenic cells.  Genes changed in cancer stem cells located from mammary tumors compared to the non-tumorigenic cells.			
MILI_PSEUDOPODIA_CHEMOTAXIS_DN	436 0.154857	1.62725	0.0361	0.271865	Transcripts depleted in pseudopodia of NIH/3T3 cells (fibroblast) in response to the chemotactic migration stimulus by lysophosphatidic acid (LPA) [PubChem=3988].			
MORI_SMALL_PRE_BII_LYMPHOCYTE_DN	58 0.372423		0.0434		Down-regulated genes in the B lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the Small Pre-BII stage.			
RAMALHO_STEMNESS_DN MARTINEZ_TP53_TARGETS_DN	75 0.329106 631 0.121102		0.0452	0.295156	Genes depleted in embryonic, neural and hematopoietic stem cells.  Genes down-regulated in mice with skin specific knockout of TP53 (Genes down-regulated in mice with skin specific knockout of TP53 (Gene ID=7157).			
BOYLAN_MULTIPLE_MYELOMA_D_DN	61 -0.34153		0.0658	0.337939	Genes down-regulated in group D of tumors arising from overexpression of BCL2L1 and MYC [Gene ID=598, 4609] in plasma cells.			
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP	69 -0.32381	-1.51127	0.0618	0.337939	Genes up-regulated during differentiation from large pre-BII to small pre-BII lymphocyte.			
MARTINEZ_RB1_AND_TP53_TARGETS_DN LE_EGR2_TARGETS_DN	623 0.121844		0.0669	0.337939	Genes down-regulated in mice with skin specific double knockout of both RBI and TP53 (Gene ID=5925, 7157) by Cre-lox.			
LE_EGR2_TARGETS_DN RIZ_ERYTHROID_DIFFERENTIATION	106 0.271236 79 -0.30562		0.0675	0.337939	Genes Gown-regulated in P14 nerves of transgenic mice having hypomorhic (reduced function) allele of EGR2 (Gene ID-1959). Selected gradually u-regulated genes in the T1X1 (Gene ID-1935)F [170 In BRINTS-4 cells (pro-erythroblasts).			
KUNINGER_IGF1_VS_PDGFB_TARGETS_UP	54 0.352854	1.49582	0.0734	0.337939	Genes up-regulated in C2AS12 cells (myoblast) by IGF1 [Gene ID=3479] vs PDGFB [Gene ID=5155].			
RIZ_ERYTHROID_DIFFERENTIATION_6HR	40 0.393513		0.0893	0.337939	Selected genes down-regulated in the TLX1 [Gene ID=3195] Tet On iEBHX15-4 cells (pro-erythroblasts) at 6 h time point.			
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_UP	90 0.286886 277 0.17219	1.48689	0.0692	0.337939	Genes up-regulated in non-apoptotic tissues (fetal liver) after MDMI (Gene ID=4194) knockout.  Genes up-regulated in tho-apoptotic dissues (fetal liver) after MDMI (GENE ID=4194) knockout.			
GOLDRATH_ANTIGEN_RESPONSE LEE_LIVER_CANCER_MYC_DN	40 0.383528	1.46223	0.0982	0.342515	Genes up-regulated at the peak of an artigen response of naive CDB+ [Gene ID-925, 926] T-cells. Genes down-regulated in heaptocellular carcinoma (FICO) induced by overexpression of MVC [Gene ID-4609].			
MCCLUNG CREB1 TARGETS UP	100 -0.27091	-1.46083	0.081	0.342515	Genes up-regulated in the nucleus accumbens (a major reward center in the brain) 8 weeks after induction of CREB1 [Gene ID=1385] expression in a transgenic Tet-Off system.			
MCBRYAN_PUBERTAL_BREAST_5_6WK_UP	91 0.278513		0.0782	0.342515	Genes up-regulated during pubertal mammary gland development between week 5 and 6.			
ZHANG_BREAST_CANCER_PROGENITORS_DN MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_UP	104 0.262556 89 0.277834	1.43645	0.0796	0.342515	Genes Changed in cancer stem cells isolated from mammary tumors compared to the non-tumorigenic cells.  Genes un-remitted in anontrist itsusse (neuronethiclium) after MIMIA (Gene Instal 1914) Knochout			
LEE_LIVER_CANCER_MYC_UP	72 0.30115	1.43086	0.0896	0.350725	Genes up-regulated in apportait issues (neuroepithelium) after MDM4 (Gene ID=4194) knockout.  Genes up-regulated in hepatocellular carrianom (HCC) induced by oversepression of MYC (Gene ID=4094).			
STARK_PREFRONTAL_CORTEX_22Q11_DELETION_DN	410 -0.13959	-1.42734	0.0964	0.350725	Genes down-regulated in prefrontal cortex (PFC) of mice carrying a hemizygotic microdeletion in the 22q11.2 region.			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_13 CADWELL_ATG16L1_TARGETS_UP	141 -0.22569 63 0.311449	-1.41504 1.40658	0.0921	0.359831	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 13.  Genes up-regulated in Paneth cell (part of intestiinal epithelium) of mice with hypomorphic (reduced function) form of ATG16.1 [Gene ID=55054].			
MATSUDA_NATURAL_KILLER_DIFFERENTIATION STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	437 0.132308	1.39746	0.1069	0.363365	Genes changed between device longmental stages of Valpha14 natural killer 1 lymphocyte cells (MT).			
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	96 0.26103	1.39604	0.1038	0.363365	Genes changed between developmental stages of Valpha141 natural killer Tlymphocyte cells (NKT). Genes classifying non-tumor lung tissues by age after incution of lung cancer by urethane injection (PubChem=5641): early (24-26 weeks) vs late (46 weeks).			
MCBRYAN_PUBERTAL_BREAST_4_5WK_DN RAMALHO_STEMNESS_UP	222 0.180099 162 0.207446	1.38222	0.1076 0.1061		Genes own-regulate of mbyonic, neur ain an hematopolicies test me call and in the call and the c			
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	111 0.242292	1.37695	0.1061	0.368314	Genes in it. the dimensional memorphisms can be managed by the control of the con			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_17	150 -0.21179	-1.36571	0.1136	0.377685	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 17.			
LIN_NPAS4_TARGETS_UP MARKEY RB1 CHRONIC LOF UP	103 0.238698		0.1342	0.448391	Genes up-regulated in neurons after NPAS4 [Gene ID=266743] knockdown by RNAi.			
MARKEY_RB1_CHRONIC_LOF_UP RASHI_RESPONSE_TO_IONIZING_RADIATION_2	112 -0.22914 127 0.213597		0.1397 0.1554	0.448391	Genes up-regulated in MET cells (embryonic fibroblasts) isolated from RBI (Gene ID-952S) Isnockout mice: chronic ioss of function (LOF) of RBI.  Cluster 2: late ATM (Reen ID-442) Gependent genes induced by ioniting realisation treatment.			
BOYLAN MULTIPLE MYELOMA PCA1 UP	114 0.222687	1.28518	0.1491	0.476646	Top up-regulated genes from principal component 1 (PCA1) which captures variation between normal plasma cells and tumors arising from aberrant expression of BCL2L1 and MYC [Gene ID=598, 4609].			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_10	52 -0.30664	-1.28116	0.1716	0.476646	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 11.			
MCCLUNG_DELTA_FOSB_TARGETS_2WK ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN	62 0.282547 40 -0.33365		0.1692 0.1957	0.4836	Genes up-regulated in the nucleus accumbens (a major reward center in brain) 2 weeks after induction of deltaFosts, a FOSB (Gene ID-2354) splice variant.  Hepatic graft versus bost disease (Gene) (bd.) 49.7 z down-regulated in allogenedic vs syngeneic bone marroor transplant.			
MCBRYAN PUBERTAL BREAST 6 7WK UP	242 0.158243	1.26178	0.1793	0.4836	Genes up-regulated during pubertal mammary gland development between week 6 and 7.			
STARK_PREFRONTAL_CORTEX_22Q11_DELETION_UP	179 -0.17983	-1.25697	0.1767	0.4836	Genes up-regulated in prefrontal cortex (PFC) of mice carrying a hemizygotic microdeletion in the 22q11.2 region.			
MILI_PSEUDOPODIA_CHEMOTAXIS_UP	67 0.272417	1.25501	0.1731 0.1935	0.4836	Transcripts enriched in pseudopodia of NIH/3T3 cells (fibroblast) in response to the chemotactic migration stimulus by lysophosphatidic acid (LPA) [PubChem=3988].			
MCCLUNG_CREB1_TARGETS_DN  LEE_TARGETS_OE_PTCH1_AND_SUEU_DN	52 0.297896 60 -0.27904	1.24723	0.1955	0.469649	Genes down-regulated in the nucleus accumbens (a major reward center in the brain) 8 weeks after induction of CREB1 [Gene 10-1385] expression in a transgenic Tet-Off system.  Genes down-regulated in medulioblations tumors from animals with inactivating mutations of one copy of PTCH1 or SIPME [Gene 10-2155]; SIRSH   in conjunction with TPS3 [Gene 10-7157] loss.			
LEE_TARGETS_OF_PTCH1_AND_SUFU_DN YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_7	56 0.284296	1.22002	0.2098	0.525043	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 7.			
RIZ_ERYTHROID_DIFFERENTIATION_CCNE1	41 -0.31331		0.2331	0.537906	Selected gradually up-regulated genes whose expression profile follows that of CCNE1 [Gene ID=898] in the TLX1 [Gene ID=3195] Tet On IEBHX15-4 cells (pro-erythroblasts).			
MORI_LARGE_PRE_BII_LYMPHOCYTE_UP KUMAR_TARGETS_OF_MLL_AF9_FUSION	51 -0.28915 347 0.125449	-1.20504 1.18913	0.2229 0.2433	0.537906	Up-regulated genes in the 8 lymphocyte developmental signature, based on expression profiling of lymphomas from the fam: transpenie, mice, the Large Pre-Bill stage.  Whyeloid leukemia model in mice with germ-line MUL-AP Susion knock-in (Rene Ind-1927, 3 roll); genes changed in comparison some gife leukemic, prelutemic and wild-type animals.			
MARTINEZ_RB1_TARGETS_DN	549 -0.0996	-1.16809	0.2652	0.584472	Genes down-regulated in mice with skin specific knockout of RB1 [Gene III = 5925] by Cre-lox.			
FOSTER INFLAMMATORY RESPONSE LPS UP	157 0.176784	1.16628	0.2451	0.584472	Genes up-regulated by bacterial lipopolysaccharide (LPS) in non-tolerizeable (NT class) macrophages, compared to the ???tolerizeable??? (T class) ones.			
LEE_TARGETS_OF_PTCH1_AND_SUFU_UP IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	102 0.214337 77 -0.23349		0.2371 0.2667	0.584472	Genes up-regulated in medialloblastoma tumors from animals with inactivating mutations of one copy of PTCH1 or SUPT (Bene ID-5727, 51684) in conjunction with TPS3 (Gene ID-7157) loss.  Genes in the expression cluster "LT-SC Shared": up-regulated in long term ematopolexist term cells (LT+SC) from adult bone many adried liver.			
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_9	73 -0.23718	-1.13087	0.2705	0.63457	Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 9.			
IVANOVA_HEMATOPOIESIS_MATURE_CELL	119 -0.19156	-1.11912	0.2795	0.63457	Genes in the expression cluster 'MBC Shared': up-regulated in mature blood cell populations from adult bone marrow and fetal liver.			
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS TSENG IRS1 TARGETS DN	123 0.187883 113 0.192891		0.2831	0.63457	Transcripts in hematopolicit stem cells (HSC) which are cis-regulated (i.e., modulated by a QTL (quantitative trait locus) in close proximity to the gene).  Down-regulated in brown preadloops; with IRSI (Gene ID-986F) Incoduct vs wild type controls; the knockouts have severe defects in adjacycet differentiation.			
LIN NPAS4 TARGETS DN	57 0.255678	1.10411	0.2941	0.63457	Down-regulated in brown preadipocytes with IRS1 [Gene ID-3667] knockout vs wild type controls; the knockouts have severe defects in adipocyte differentiation.  Genes down-regulated in neurons after NPAS4 [Gene ID-36673] knockdown by RNAI.			
LEE_LIVER_CANCER_E2F1_DN	53 0.261733	1.10226	0.3179	0.63457	Genes down-regulated in hepatocellular carcinoma (HCC) induced by overexpression of E2F1 [Gene ID=1869].			
COATES_MACROPHAGE_M1_VS_M2_DN	88 0.213299		0.3021	0.63457	Down-regulated genes distinguishing between M1 (pro-inflammatory) and M2 (anti-inflammatory) macrophage subtypes.			
RASHI_RESPONSE_TO_IONIZING_RADIATION_5 BOYLAN MULTIPLE MYELOMA C D DN	135 0.178205 217 0.143952	1.09862	0.3064	0.63457	Cluster 5: early responding genes activated in ATM [Gene 10-472] deficient but not in the wild type tissues.  Genes down-regulated both in group cand b of tumors arising from overexpession of 8CL211 and MYC [Gene 10-598, 4609] in plasma cells.			
IVANOVA HEMATOPOIESIS STEM CELL AND PROGENITOR	214 0.145211	1.09709	0.3286	0.63457	Genes in the expression cluster 'HSC and Progenitors Shared': up-regulated in hematopoietic stem cells (HSC) and progenitors from adult bone marrow and fetal liver.			
MARSON FOXP3 TARGETS DN	59 0.250317		0.3152		Genes down-regulated by FOXP3 [Gene ID=50943] in both ex vivo and hybridoma cells.			
BOYLAN_MULTIPLE_MYELOMA_C_DN LE_EGR2_TARGETS_UP	44 0.274718 63 0.24034		0.336	0.653045	Genes down-regulated in group C of tumors arising from overexpression of BCL21 and MYC [Gene ID-9598, 4699] in plasma cells.  Genes us-gregulated in P14 nerves of transgenic mice having hypomorbic (reduced function) alled			
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN	133 0.174918	1.08092	0.3311	0.660017	Genes down-regulated in 17-4 nerves or tallagenic mine invaling hypomorinic (reduced unicoun) aliese or coxis (Jenes down-regulated in post-CO, BCLG (Sene ID=604) dependent B cell non-Hodgkin's (hypohona) (Benet ID=604) dependent B cell non-Hodgkin's hypohona (B-NHL) vs MYC (Gene ID=4609) driven pre-GC lymphoma; GC = germinal center.			
UEDA PERIFERAL CLOCK	114 -0.18115	-1.04637	0.3599	0.714516	Molecular timetable composed of 162 time-indicating genes (182 probes) in the peripheral (liver) clock Genes up-regulated in mice with skin specific double knockout of both RB1 and TPS3 (Gene ID=5925, 7157) by Cre-lox.			
MARTINEZ_RB1_AND_TP53_TARGETS_UP	646 0.083034 137 0.16652	1.04103	0.3954	0.718642	Genes up-regulated in mice with skin specific double knockout of both RB1 and TP53 [Gene ID+5925, 7157] by Cre-lox.			
GOLDRATH_HOMEOSTATIC_PROLIFERATION HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP	137 0.16652 93 0.195879	1.03202	0.3872	0.720593	Up-regulated in CB+ (Gene 10-925) T hymphocytes undergoing homeostatic proliferation (HP) versus the naive cells; these genes are not up-regulated versus effector or memory cell population.  Genes up-regulated in hematopoletic precursor cells conditionally expressing HOXN9 and MESIS (Gene 10-9250 Kg 1211).			
LIAN_LIPA_TARGETS_3M	63 0.230048	1.02949	0.3879	0.720593	Genes up-regulated at 3 months of age in lungs from LIPA [Gene ID=3988] knockout mice, which display pulmonary pathology.			
YU MYC TARGETS DN	52 0.243401	1.02075	0.4077	0.732312	Genes down-regulated in B cell lymphoma tumors expressing an activated form of MYC (Gene ID=4669).  Genes up-regulated in hepatocellular carcinoma (HCC) induced by diethylnitrosamine (DENA) [Pubchem=5921].			
LEE_LIVER_CANCER_DENA_UP MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_UP	65 0.219746 101 0.183995		0.4258	0.743237	Genes up-regulated in hepatocellular carcinoma (HCC) induced by diethylnitrosamine (DENA) [PubChem=5921]. Genes correlated with the early tumor onset in the Fun-myc transpent mouse   hmphoma model.			
IVANOVA_HEMATOPOIESIS_STEM_CELL	71 0.214222	1.00349	0.4142	0.743237	Genes in the expression cluster 'HSC Shared': up-regulated in hematopoietic stem cells (HSC) from adult bone marrow and fetal liver.			
CAIRO LIVER DEVELOPMENT LIP	151 0.155001	1.00198	0.4268	0.743237	Genes up-regulated at early fetal liver stage (embryonic days E11.5 - E12.5) compared to the late fetal liver stage (embryonic days E14.5 - E16.5).			
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_DN MCBRYAN_PUBERTAL_BREAST_3_4WK_UP	314 0.110256 178 -0.14282	0.998326	0.4479	0.743897	Cluster 2: genes down-regulated in lung tissue samples from mice with oncogenic form of KRAS [Gene ID-3845] and inactivated PTEN [Gene ID-5728].  Genes up-regulated during pubertal mammary gland development between weeks 3 and 4.  4.			
GOLDRATH_IMMUNE_MEMORY	46 0.244443	0.977589	0.4536	0.770125	'Memory genes' expressed uniquely in CD8+ [Gene ID=925] memory T lymphocytes (compared with effector or na??ve cells)			
LIAN LIPA TARGETS 6M	81 0.19638	0.976318	0.4587	0.770125	Genes up-regulated at 6 months of age in lungs from LIPA [Gene ID=3988] knockout mice, which display pulmonary pathology.			
MCBRYAN_PUBERTAL_BREAST_5_6WK_DN GERY_CEBP_TARGETS	159 -0.14553 92 0.18209	-0.969005	0.4776	0.778699	Genes down-regulated during pubertal mammary gland development between week 5 and 6.  Genes changed in NH 3T3 cells (enthyroic fibroblast) by expression of our own or of C/EBP proteins: CEBPA, CEBPB, CEBPG, and CEBPD (Gene ID=1050, 1051, 1054, 1052).			
GENI_CEDF_IARGETS	92 0.18205	0.900/5/	U.460b	U./6/58/	General General Annia and a sensity from a management of the properties of the prope			

COATES_MACROPHAGE_M1_VS_M2_UP			-0.957892	0.4858	0.787587 Up-regulated genes distinguishing between M1 (pro-inflammatory) and M2 (anti-inflammatory) macrophage subtypes.
KENNY_CTNNB1_TARGETS_UP		0.262754			0.787587 Genes up-regulated in HC11 cells (mammary epithelium) by expression of constantly active CTNNB1 [Gene ID=1499].
IVANOVA_HEMATOPOIESIS_EARLY_PROGENITOR		0.205208			0.787587 Genes in the expression cluster 'Early Progenitors Shared': up-regulated in hematopoietic progenitors from adult bone marrow and from fetal liver.
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_AND_BRAIN_QTL_CIS		0.21745			0.78758 Genes associated with the same cis-regular bord of the control of the con
MARSON_FOXP3_TARGETS_UP MORI PRE BI LYMPHOCYTE DN		0.214417			0.78753 Genes up-regulated by FOXP3 [Gene I ID=50943] in both ex vivo and hybridoma cells.  0.787537 Genes up-regulated gene in the B hymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the Pre-Bi stage.
LEE LIVER CANCER MYC E2F1 DN		0.234531		0.5169	0.787587 Genes down-regulated in heastocellular carcinoma (HCCI from MYC and EE/E1 (Gene ID=4609), 1869) double transgenic mice.
STEARMAN LUNG CANCER EARLY VS LATE DN		0.234331	0.923577	0.5304	0.787587 Genes advant-regulated in integrational integration and care production of fung cancer by unrefused integration (Public mercal solid production) and the production of fung cancer by unrefused integration (Public mercal solid production) and the production (Public merca
MARTINEZ TP53 TARGETS UP		0.073342		0.5439	7.787587 Genes up-regulated in mice with skin specific Science ID=71571.
BOYLAN MULTIPLE MYELOMA PCA3 UP		-0.22589		0.5301	0.787587 Top-up-regulated genes from principal component 3 (PCA3) which captures variation among different plasma cell tumors arising from overexpression of BCL2L1 and MYC [Gene ID=598, 4609].
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN	316	0.101566	0.918584	0.5569	0.787587 Genes down-regulated in non-apoptotic tissues (fetal liver) after MDM4 [Gene ID=4194] knockout.
BOYLAN_MULTIPLE_MYELOMA_D_UP	59	-0.20845	-0.915446	0.5427	0.787587 Genes up-regulated in group D of tumors arising from overexpression of BCL2L1 and MYC [Gene ID=598, 4609] in plasma cells.
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP		0.14648			0.787587 Genes up-regulated in mouse stroma of pancreatic adenocarcinoma zenografts after treatment with HhAntag, a hedgehog (Hh) pathway inhibitor.
MORI_SMALL_PRE_BII_LYMPHOCYTE_UP			-0.911725		0.787587 Up-regulated genes in the B lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the Small Pre-BII stage.
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_DN		0.109069	0.908442		0.787587 Genes down-regulated in mouse stroma of pancreatic adenocarcinoma zenografts after treatment with HhAntag, a hedgehog (Hh) pathway inhibitor.
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP		0.170693	0.90611		0.787587 Hepatic graft versus host disease (GVHD), day 7: up-regulated in allogeneic vs syngeneic bone marrow transplant.
IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR		0.157008			0.787587 Genes in the expression cluster 'Late Progenitors Shared': up-regulated in hematopoietic late progenitor cells from adult bone marrow and fetal liver.
MCBRYAN_PUBERTAL_BREAST_4_5WK_UP LEE LIVER CANCER ACOX1 UP		0.116129 0.221864			0.78753 Genes up-regulated during pubertal mammany gland development between week 4 and 5. 0.800478 Genes up-regulated in hepatocellular carcinoma of ACDX (Jene 10-51 Monokout mice.
CHESLER BRAIN OTL CIS		0.221864			0.800478 Genes up-regulated in nepatocential carcinoma or ACCAT, I general up-3.1 knockout mixe.  8.800478 Benes up-regulated in nepatocential carcinoma or ACCAT, I general up-3.1 knockout mixe.  8.800478 Benes up-regulated in nepatocential carcinoma or ACCAT. I general up-3.1 knockout mixe.
YAO TEMPORAL RESPONSE TO PROGESTERONE CLUSTER 1		-0.19936		0.5918	0.800478 East Carpinated Quantitative fail not QC (2.5) in the miscase genome winch included the miscase.  8.800478 East Carpinated Quantitative fail not QC (2.5) in the miscase genome winch included the miscase.  9.800478 East Carpinated in uterus during a time course response to progesterone [PubChem=5994] on time tissue.
TSENG IRS1 TARGETS UP		0.15087	0.880564		0.800478 Unesceptiated in own preadjourney with IRST (Gene ID=3667) knockout s wild type controls; the knockouts have severe defects in adipocyte differentiation.
HESS TARGETS OF HOXA9 AND MEIS1 DN		0.171765		0.6106	0.800478 Genes down-regulated in hematopotetic precursor cells conditionally expressing HOXA9 and MEIST [Gene ID=3205, 4211].
MORI LARGE PRE BII LYMPHOCYTE DN		0.2193	0.870651	0.5968	0.811048 Down-regulated genes in the B lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the Large Pre-BII stage.
PAL PRMTS TARGETS UP	200	-0.1171	-0.85898	0.6379	0.826388 Genes up-regulated in NIH-3T3 cells (fibroblast) after knockdown of PRMT5 [Gene ID=10419] by RNAI.
MARKEY_RB1_ACUTE_LOF_UP	218	0.112636	0.856171	0.6474	0.826388 Genes up-regulated in adult fibroblasts with inactivated RB1 [Gene ID=5925] by Cre-lox: acute loss of function (LOF) of RB1.
LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_UF	IP 46 I	0.212547		0.6292	0.827286 Genes up-regulated in LSK cells (bone marrow) as a function of a QTL for the size of hematopoietic stem cell (HSC) population: comparison of congenic B.D. chr3 (BD, large HSC size) vs parental B6 strain (tiny HSC size).
RASHI_RESPONSE_TO_IONIZING_RADIATION_3		0.207165		0.632	0.827286 Cluster 3: genes activated by ionizing radiation regardless of ATM [Gene ID=472] status.
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0			-0.843646	0.6616	0.827286 Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 0.
MORI_IMMATURE_B_LYMPHOCYTE_UP		0.219309			0.827286 Up-regulated genes in the B lymphocyte developmental signature based on expression profiling of lymphomas from the Emu-myc transgenic mice: the immature B stage.
HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN		0.206803	0.828817	0.6582	0.846368 Genes down-regulated during differentiation from pre-BI to large pre-BII ymphocyte.
MARKEY_RB1_ACUTE_LOF_DN BOYLAN MULTIPLE MYELOMA C D UP		0.12158	-0.822695 0.810753		0.8511246 Genes down-regulated in adult fibroblasts with inactivated RB1 (Gene ID=5925) by Cre-lox acute loss of function (LOF) of RB1.  0.860925 Gene un-regulated bit in group C and D of tumors artising from oversoression of BCL121 and MYC (Gene ID=598, 4609) in plasma cells.
YAO TEMPORAL RESPONSE TO PROGESTERONE CLUSTER 12		0.141043	0.8086	0.7252	0.860925 Genes up-regulated oin ut migroup claim of oil unitro's arising mon overexpression or necessarial mon't, Querie mis-1996, 4009) in plasma ceins. 0.860925 Genes up-regulated oin uterus during a time course response to progesterone (PubChem=5994): SOM cluster 12.
RASHI RESPONSE TO IONIZING RADIATION 4			-0.806743	0.6998	0.860925 Cluster 4: genes repressed by longing radiation regardless of ATM [Gene ID=472] status.
TSENG ADIPOGENIC POTENTIAL DN		0.200527	0.80161	0.6962	0.863728 Genes showing decreasing expression in brown preadipocytes with increasing ability of the cells to differentiate.
YAO HOXA10 TARGETS VIA PROGESTERONE UP	74	0.161704	0.781399	0.7606	0.892004 Genes up-regulated in the uteri of ovariectomized mice 6 h after progesterone [PubChem=5994] injection: HOXA10 [Gene ID=3206] knockout vs wild type animals.
LEE_LIVER_CANCER_MYC_E2F1_UP	47	-0.19077	-0.770826	0.7456	0.896487 Genes up-regulated in hepatocellular carcinoma (HCC) from MYC and E2F1 [Gene ID=4609, 1869] double transgenic mice.
LEE_LIVER_CANCER_MYC_TGFA_DN		0.185616		0.7567	0.896487 Genes down-regulated in hepatocellular carcinoma (HCC) tissue of MYC and TGFA [Gene ID=4609, 7039] double transgenic mice.
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6		0.178436		0.7699	0.896487 Genes co-regulated in uterus during a time course response to progesterone [PubChem=5994]: SOM cluster 6.
LEE_LIVER_CANCER_CIPROFIBRATE_UP					0.896487 Genes up-regulated in hepatocellular carcinoma (HCC) induced by ciprofibrate [PubChem=2763].
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN			-0.745499	0.7873	0.90962 Hepatic graft versus host disease (GVHD), day 35: genes down-regulated in allogeneic vs syngeneic bone marrow transplant.
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_DN LEE LIVER CANCER MYC TGFA UP		0.19863 0.152793		0.7732 0.817	0.90962 Genes down-regulated during differentiation from large pre-Bil to small pre-Bil lymphocyte. 0.90962 Genes up-regulated in hepatocellular carcinoma (HCC) tissue of MYC and TGA (Gene ID—A609, 7039) double transgenic mice.
CADWELL ATG16L1 TARGETS DN				0.8057	0.90962. Genes up-regulated in nepatocential carcinoma (ricc) use of write and oran (oran located proposition), 0.90962. Genes down-regulated in nepatocential carcinoma (ricc) in oran located proposition) or orange oran
MONNIER POSTRADIATION TUMOR ESCAPE DN		-0.09468	-0.733943	0.8055	0.90962. The postradiation tumor escape signature: genes down-regulated in tumors from irradiated storona vs those from non-irradiated stroma.
MARTORIATI MDM4 TARGETS NEUROEPITHELIUM DN			-0.727634	0.8285	0.90889 Genes down-regulated in apoptotic tissues (neuroepithelium) after MDM4 [Gene ID-4194] knockout.
LEE LIVER CANCER E2F1 UP		0.164545		0.8177	0.90889 Genes up-regulated in hepatocellular carcinoma (HCC) induced by overexpression of EZFI (Gene ID=1869).
MORI IMMATURE B LYMPHOCYTE DN		0.181019		0.8185	0.917726 Down-regulated genes in the B lymphocyte developmental signature based on expression profiling of lymphomas from the Emu-myc transgenic mice: the immature B stage.
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_DN	66	-0.15331	-0.702577	0.8551	0.917726 Genes down-regulated in pre B lymphocyte after induction of physiological DNA double-strand breaks (DSB) by RAG2 [Gene ID=5897]; the changes are independent of ATM [Gene ID=472] signaling.
KHETCHOUMIAN_TRIM24_TARGETS_UP	72	-0.14845	-0.702286	0.8584	0.917726 Retinoic acid-responsive genes up-regulated in hepatocellular carcinoma (HCC) samples of TRIM24 [Gene ID=8805] knockout mice.
UEDA_CENTRAL_CLOCK		0.145538			0.917726 Molecular timetable composed of 96 time-indicating genes (103 probes) in the central (suprachiasmatic nucleus (SCN)) clock.
BOYLAN_MULTIPLE_MYELOMA_PCA3_DN					0.917726 Top down-regulated genes from principal component 3 which captures variation among different plasma cell tumors arising from overexpression of BCL2L1 and MYC [Gene ID=598, 4609].
RIZ_ERYTHROID_DIFFERENTIATION_12HR		-0.16556	-0.682651		0.917726 Selected genes down-regulated in the TLX1 [Gene ID=3195] Tet On iEBHX15-4 cells (pro-erythroblasts) at 12 h time point.
CAIRO_LIVER_DEVELOPMENT_DN		-0.1009			0.917726 Genes down-regulated at early fetal liver stage (embryonic days E11.5 - E12.5) compared to the late fetal liver stage (embryonic days E14.5 - E16.5).
MORI_MATURE_B_LYMPHOCYTE_UP MORI_MATURE_B_LYMPHOCYTE_DN		0.150014 -0.15255	0.67712 -0.67592		0.917726 Up-regulated genes in the 8 lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the mature 8 0.917726 Down-regulated genes in the 8 lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the mature 8 0.917726 Down-regulated genes in the 8 lymphocyte developmental signature, based on expression profiling of lymphomas from the Emu-myc transgenic mice: the mature 8
LEE LIVER CANCER ACOX1 DN		-0.15255	-0.64571		USITIVE DOWN-regulated genes in the 8 hymphocyte developmental signature, based on expression proming or hymphomas from the Emu-myc transgenic mice: the mature 8 0,443097 Genes down-regulated in hepatocellular carcinoma of ACOXI [Gene ID-51] knockout mice.
MARKEY RB1 CHRONIC LOF DN		0.13303	0.623252		10.94307 Genes down-regulated in Integrational and action on a COAT (gene 10-51) micked in the 10.954948 Genes down-regulated in MEF cells (embryonic fibroblasts) isolated from 881 (Gene 10-5925) knockout mice: chronic loss of function (LOF) of RB1.
RASHI RESPONSE TO IONIZING RADIATION 6		0.131308	0.619058		0-53-949 Cluster 6: late responding genes activated in ATM [Gene ID=472] deficient but not in the will be tissues.
BYSTRYKH HEMATOPOIESIS STEM CELL AND BRAIN QTL TRANS				0.9438	0.598625 Genes trans-regulated by the same QTL (quantitative trait tool) in brain and hematopoleitic stem cells (HSC).
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_UP	174			0.9567	0.966518 Cluster 1: genes up-regulated in lung tissue samples from mice with oncogenic form of KRAS [Gene ID=3845] and inactivated PTEN [Gene ID=5728].
LEE_LIVER_CANCER_DENA_DN	54		-0.493779	0.9947	0.995454 Genes down-regulated in hepatocellular carcinoma (HCC) induced by diethylnitrosamine (DENA) [PubChem=5921].
LEE_LIVER_CANCER_CIPROFIBRATE_DN	49	-0.11516	-0.474371	0.997	0.995454 Genes down-regulated in hepatocellular carcinoma (HCC) induced by ciprofibrate [PubChem=2763].
•	_	_		_	