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| --- | --- | --- | --- | --- | --- | --- |
| **Gene Set Name** | **# Genes in Gene Set (K)** | **Description** | **# Genes in Overlap** | **k/K** | **p-value** | **FDR** |
| **(k)** | **q-value** |
| FISCHER\_DREAM\_TARGETS | 929 | Target genes of the DREAM complex. | 113 | 0.12 | 2.00E-89 | 8.00E-86 |
| KINSEY\_TARGETS\_OF\_EWSR1\_FLII\_FUSION\_UP | 1278 | Genes up-regulated in TC71 and EWS502 cells (Ewing's sarcoma) by EWSR1-FLI1 as inferred from RNAi knockdown of this fusion protein. | 109 | 0.09 | 1.00E-69 | 2.00E-66 |
| NUYTTEN\_EZH2\_TARGETS\_DN | 1024 | Genes down-regulated in PC3 cells (prostate cancer) after knockdown of EZH2 by RNAi. | 96 | 0.09 | 8.00E-65 | 1.00E-61 |
| KOBAYASHI\_EGFR\_SIGNALING\_24HR\_DN | 251 | Genes down-regulated in H1975 cells NSCLC resistant to gefitinib after treatment with EGFR inhibitor CL-387785 for 24h. | 56 | 0.22 | 5.00E-59 | 5.00E-56 |
| GOBERT\_OLIGODENDROCYTE\_DIFFERENTIATION\_UP | 570 | Genes up-regulated during later stage of differentiation of Oli-Neu cells (oligodendroglial precursor) in response to PD174265  | 71 | 0.12 | 3.00E-56 | 3.00E-53 |
| MARSON\_BOUND\_BY\_E2F4\_UNSTIMULATED | 728 | Genes with promoters bound by E2F4 in unstimulated hybridoma cells. | 76 | 0.1 | 2.00E-54 | 2.00E-51 |
| ROSTY\_CERVICAL\_CANCER\_PROLIFERATION\_CLUSTER | 140 | The 'Cervical Cancer Proliferation Cluster' (CCPC): genes whose expression in cervical carcinoma positively correlates with that of the HPV E6 and E7 oncogenes; they are also differentially expressed according to disease outcome. | 42 | 0.3 | 2.00E-50 | 1.00E-47 |
| DODD\_NASOPHARYNGEAL\_CARCINOMA\_DN | 1375 | Genes down-regulated in nasopharyngeal carcinoma (NPC) compared to the normal tissue. | 91 | 0.07 | 2.00E-48 | 1.00E-45 |
| SOTIRIOU\_BREAST\_CANCER\_GRADE\_1\_VS\_3\_UP | 151 | Up-regulated genes whose expression correlated with histologic grade of invasive breast cancer tumors: comparison of grade 1 vs grade 3. | 41 | 0.27 | 3.00E-47 | 1.00E-44 |
| PUJANA\_BRCA1\_PCC\_NETWORK | 1652 | Genes constituting the BRCA1-PCC network of transcripts whose expression positively correlated (Pearson correlation coefficient, PCC >= 0.4) with that of BRCA1 across a compendium of normal tissues. | 97 | 0.06 | 4.00E-47 | 2.00E-44 |
| SHEDDEN\_LUNG\_CANCER\_POOR\_SURVIVAL\_A6 | 456 | Cluster 6 of method A: up-regulation of these genes in patients with NSCLC predicts poor survival outcome. | 58 | 0.13 | 2.00E-46 | 9.00E-44 |
| DUTERTRE\_ESTRADIOL\_RESPONSE\_24HR\_UP | 324 | Genes up-regulated in MCF7 cells (breast cancer) at 24 h of estradiol treatment. | 50 | 0.15 | 3.00E-44 | 1.00E-41 |
| HORIUCHI\_WTAP\_TARGETS\_DN | 310 | Genes down-regulated in primary endothelial cells (HUVEC) after knockdown of WTAP by RNAi. | 48 | 0.15 | 1.00E-42 | 5.00E-40 |
| BERENJENO\_TRANSFORMED\_BY\_RHOA\_UP | 536 | Genes up-regulated in NIH3T3 cells transformed by expression of constitutively active (Q63L) form of RHOA off plasmid vector. | 58 | 0.11 | 2.00E-42 | 8.00E-40 |
| BENPORATH\_CYCLING\_GENES | 648 | Genes showing cell-cycle stage-specific expression  | 62 | 0.1 | 5.00E-42 | 1.00E-39 |
| PUJANA\_CHEK2\_PCC\_NETWORK | 779 | Genes constituting the CHEK2-PCC network of transcripts whose expression positively correlates (Pearson correlation coefficient, PCC >= 0.4) with that of CHEK2  | 66 | 0.08 | 2.00E-41 | 6.00E-39 |
| CHIANG\_LIVER\_CANCER\_SUBCLASS\_PROLIFERATION\_UP | 178 | Top 200 marker genes up-regulated in the 'proliferation' subclass of hepatocellular carcinoma (HCC); characterized by increased proliferation, high levels of serum AFP and chromosomal instability. | 39 | 0.22 | 5.00E-41 | 2.00E-38 |
| PUJANA\_BRCA2\_PCC\_NETWORK | 423 | Genes constituting the BRCA2-PCC network of transcripts whose expression positively correlated (Pearson correlation coefficient, PCC >= 0.4) with that of BRCA2 across a compendium of normal tissues. | 52 | 0.12 | 7.00E-41 | 2.00E-38 |
| ZHOU\_CELL\_CYCLE\_GENES\_IN\_IR\_RESPONSE\_24HR | 128 | Cell cycle genes significantly (p =< 0.05) changed in fibroblast cells at 24 h after exposure to ionizing radiation. | 35 | 0.27 | 1.00E-40 | 3.00E-38 |
| BLUM\_RESPONSE\_TO\_SALIRASIB\_DN | 342 | Selected genes down-regulated in response to the Ras inhibitor salirasib in a panel of cancer cell lines with constantly active HRAS  | 46 | 0.13 | 5.00E-38 | 1.00E-35 |