EnrichmentHsSymbolsFile2 Top pathways by non−permulation

Geneset	stat	num.genes	pval	p.adj	gene.vals
BLALOCK_ALZHEIMERS_DISEASE_DN	−0.04876459	1165	2.882e−08	1.870e−04	HERC2:1 CHL1:3 LRRN3:4 LTN1:19 PHTF1:20 UAP1:52
KIM_ALL_DISORDERS_CALB1_CORR_UP	−0.06425308	528	4.958e−07	1.608e−03	CHL1:3 CAMSAP2:35 AKR1B1:43 ATP1B1:85 SLC12A5:91 BHLHE40:112
WP_PRADERWILLI_AND_ANGELMAN_SYNDROME	−0.17705131	56	4.619e−06	7.492e−03	HERC2:1 ATP10A:31 TUBGCP5:98 UBE3A:156 GABRA5:284 TP53:435
DIAZ_CHRONIC_MYELOGENOUS_LEUKEMIA_UP	−0.03827447	1337	3.523e−06	7.492e−03	KDM5B:7 ZNF277:23 BLMH:37 URI1:49 MIS18A:109 ZNF281:148
NIKOLSKY_BREAST_CANCER_16P13_AMPLICON	0.13092581	100	6.159e−06	7.992e−03	EME2:4 C1QTNF8:125 PTX4:187 PGAP6:366 WFIKKN1:386 CRAMP1:435
NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON	−0.27783636	20	1.698e−05	1.746e−02	ARRDC4:102 PCSK6:140 LRRK1:377 ALDH1A3:433 MEF2A:722 IGF1R:1039
REACTOME_POST_TRANSLATIONAL_PROTEIN_MODI	−0.03579824	1297	1.884e−05	1.746e−02	HERC2:1 ANK2:2 APOA1:12 CNTN3:13 ADAMTS6:15 PIGG:22
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER	−0.04702367	704	2.397e−05	1.944e−02	CHL1:3 AKR1B1:43 PRR3:74 HSPD1:136 APBA2:170 OAT:234
REACTOME_INFECTIOUS_DISEASE	−0.04268928	834	3.239e−05	2.335e−02	TJP1:14 SEC24D:38 NUP133:42 ATP1B1:85 MRC1:144 SEH1L:172
WP_ALLOGRAFT_REJECTION	−0.14150168	71	3.775e−05	2.449e−02	CXCL13:50 TNF:248 LRRK2:407 CD86:499 IL2:570 CD80:595
REACTOME_ADAPTIVE_IMMUNE_SYSTEM	−0.04582322	668	5.954e−05	3.370e−02	HERC2:1 WWP1:9 LTN1:19 VCAM1:21 BLMH:37 SEC24D:38
REACTOME_RNA_POLYMERASE_II_TRANSCRIPTION	−0.03714319	1026	6.752e−05	3.370e−02	KDM5B:7 WWP1:9 TJP1:14 MOV10:24 E2F5:26 EHMT1:61
BORCZUK_MALIGNANT_MESOTHELIOMA_UP	−0.06739754	297	6.738e−05	3.370e−02	KDM5B:7 BLMH:37 SEC24D:38 OSMR:132 MFN1:294 HPRT1:382
NIKOLSKY_BREAST_CANCER_16Q24_AMPLICON	0.16890983	46	7.415e−05	3.436e−02	ANKRD11:6 PIEZO1:8 CTU2:16 CBFA2T3:53 GSE1:55 SNAI3:123
NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON	0.15687032	52	9.153e−05	3.554e−02	RAB11FIP1:72 ANK1:116 STAR:226 ERLIN2:363 EIF4EBP1:617 CHRNA6:652
REACTOME_SIGNALING_BY_RECEPTOR_TYROSINE_	−0.05112369	503	9.311e−05	3.554e−02	WWP1:9 ATP6V0D2:66 BAX:84 HSPB1:96 COL6A3:128 PCSK6:140
SCHLOSSER_SERUM_RESPONSE_DN	−0.04553516	644	8.848e−05	3.554e−02	E2F5:26 SEC24D:38 TDRD7:99 PDS5B:121 LARP7:151 UBE3A:156
WP_NEUROINFLAMMATION_AND_GLUTAMATERGIC_S	−0.09523276	138	1.142e−04	3.881e−02	SLC38A5:162 SLC38A3:175 GRM2:209 TNF:248 GLUL:268 CAMK2D:319
WP_NETWORK_MAP_OF_SARSCOV2_SIGNALING_PAT	−0.08349681	180	1.142e−04	3.881e−02	APOA1:12 CXCL13:50 TNFSF10:97 FGG:110 SELP:130 TNF:248
WP_CONTROL_OF_IMMUNE_TOLERANCE_BY_VASOAC	−0.30717213	13	1.256e−04	3.881e−02	CD86:499 IL2:570 CD80:595 TGFB1:939 IFNG:1184 VIP:1244
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_	−0.04997385	508	1.239e−04	3.881e−02	ANK2:2 WWP1:9 UGT8:17 LTN1:19 VCAM1:21 N4BP1:34
NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	−0.09907603	122	1.593e−04	4.699e−02	TMEM64:10 SLC26A7:32 OSGIN2:45 MMP16:48 GDAP1:77 RBM12B:127
BLANCO_MELO_BETA_INTERFERON_TREATED_BRON	0.08184309	174	2.000e−04	5.643e−02	PLXNB3:23 HROB:49 KRT78:62 A2ML1:166 EVPL:178 EME1:190
BRIDEAU_IMPRINTED_GENES	−0.14941386	51	2.241e−04	5.815e−02	CNTN3:13 ATP10A:31 CALCR:65 UBE3A:156 FRAT1:214 DDC:475
WP_PHOTODYNAMIC_THERAPYINDUCED_AP1_SURVI	−0.15248910	49	2.227e−04	5.815e−02	BAX:84 TNFSF10:97 CCNE1:154 TNF:248 TP53:435 IL2:570
MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_	−0.08601226	149	2.950e−04	7.140e−02	VCAM1:21 CXCL13:50 GDAP1:77 LRRN1:115 MRC1:144 PLCXD2:237
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SY	−0.04272811	622	2.971e−04	7.140e−02	VCAM1:21 SAMHD1:27 N4BP1:34 NUP133:42 OSMR:132 TSLP:137
WP_NUCLEAR_RECEPTORS_IN_LIPID_METABOLISM	0.20007061	27	3.206e−04	7.428e−02	ABCB4:155 ABCB11:342 ABCC3:362 CYP8B1:602 ABCG5:659 VDR:796
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_	−0.23099670	20	3.486e−04	7.800e−02	KCNT2:70 ISG15:447 CALCRL:495 TDO2:640 HPGD:819 NNMT:1112
BIOCARTA_NUCLEARRS_PATHWAY	0.19742965	27	3.844e−04	8.045e−02	ABCB4:155 ABCB11:342 ABCC3:362 CYP8B1:602 ABCG5:659 VDR:796
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACT	−0.07171201	208	3.724e−04	8.045e−02	CXCL13:50 TNFSF10:97 OSMR:132 TSLP:137 IFNAR1:210 TNF:248
KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_U	−0.09186879	122	4.629e−04	9.385e−02	BAX:84 HSPB1:96 TNFSF10:97 CCNE1:154 IGFBP3:250 IGFBP2:278
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D	−0.21431356	22	5.021e−04	9.871e−02	NETO2:64 SHCBP1:195 ORC6:200 ITFG1:201 VPS35:220 PHKB:296
GRATIAS_RETINOBLASTOMA_16Q24	0.23553946	18	5.409e−04	1.009e−01	ANKRD11:6 USP10:48 KIAA0513:64 SPG7:180 MBTPS1:356 MEAK7:464
WP_GABA_RECEPTOR_SIGNALING	−0.17946893	31	5.443e−04	1.009e−01	GABRA5:284 GAD1:395 GABRB3:618 GPHN:1133 GABRD:1217 AP2A2:1449
REACTOME_DNA_DAMAGE_TELOMERE_STRESS_INDU	−0.13614717	53	6.089e−04	1.087e−01	CCNE1:154 NBN:364 TP53:435 H1−3:559 LMNB1:685 CDKN1B:721
REACTOME_MITOTIC_G1_PHASE_AND_G1_S_TRANS	−0.08243757	145	6.198e−04	1.087e−01	E2F5:26 CCNE1:154 RBL2:159 LYN:188 ORC6:200 RBBP4:585
REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_	−0.09737341	102	6.850e−04	1.111e−01	SLC26A7:32 SLC12A5:91 SLC38A5:162 SLC38A3:175 SLC6A15:453 SLC43A2:481
REACTOME_CARDIAC_CONDUCTION	−0.08981401	121	6.518e−04	1.111e−01	SCN9A:8 ATP1B1:85 KCNJ14:193 RYR2:196 SCN2A:265 SCN11A:308
REACTOME_NERVOUS_SYSTEM_DEVELOPMENT	−0.04255026	550	6.842e−04	1.111e−01	ANK2:2 CHL1:3 SCN9A:8 LHX9:59 COL6A3:128 APH1B:166