EnrichmentHsSymbolsFile2 Top pathways by non−permulation

Geneset	stat	num.genes	pval	p.adj	gene.vals
REACTOME_FLT3_SIGNALING_BY_CBL_MUTANTS	0.4400716	2	3.111e−02	2.707e−01	CBL:215 FLT3:1693 NA NA NA NA
WP_ULTRACONSERVED_REGION_339_MODULATION_	0.4229172	2	3.830e−02	2.979e−01	CCNE2:1135 TP53:1315 NA NA NA NA
NIKOLSKY_BREAST_CANCER_19P13_AMPLICON	−0.4119433	5	1.421e−03	4.625e−02	USHBP1:34 MYO9B:154 OCEL1:747 NR2F6:1983 USE1:4141 NA
WP_NICOTINE_METABOLISM_IN_LIVER_CELLS	−0.3884488	2	5.706e−02	3.485e−01	AOX1:1420 FMO3:2141 NA NA NA NA
REACTOME_TACHYKININ_RECEPTORS_BIND_TACHY	0.3754681	5	3.640e−03	8.091e−02	TACR1:271 TAC1:346 TACR2:639 TAC3:1650 TACR3:7066 NA
REACTOME_SIGNALING_BY_MEMBRANE_TETHERED_	−0.3737427	5	3.798e−03	8.297e−02	GOLGA4:486 BIN2:1068 KANK1:1309 KDR:3211 ETV6:4047 NA
BIOCARTA_TUBBY_PATHWAY	0.3645687	4	1.156e−02	1.644e−01	HTR2C:1357 TUB:1666 CHRM1:1757 PLCB1:3875 NA NA
BIOCARTA_CREM_PATHWAY	0.3635715	6	2.040e−03	6.044e−02	ADCY1:133 FHL5:967 FSHR:1583 FSHB:1884 XPO1:2615 CREM:5899
MATHEW_FANCONI_ANEMIA_GENES	−0.3524289	11	5.176e−05	4.487e−03	FANCM:45 FANCG:125 BRCA2:273 BRIP1:385 FANCE:1494 FANCD2:1744
REACTOME_INTERLEUKIN_36_PATHWAY	0.3459335	6	3.339e−03	7.712e−02	IL36G:230 IL36RN:537 IL1F10:1522 IL1RAP:2107 IL36B:3207 IL1RL2:7196
REACTOME_VITAMIN_D_CALCIFEROL_METABOLISM	−0.3299918	9	6.074e−04	2.765e−02	CUBN:189 PIAS4:387 CYP24A1:564 CYP2R1:814 CYP27B1:2762 GC:3052
REACTOME_NADE_MODULATES_DEATH_SIGNALLING	0.3259904	4	2.394e−02	2.417e−01	CASP2:261 CASP3:2024 NGF:2634 NGFR:6214 NA NA
BIOCARTA_ION_PATHWAY	0.3252157	5	1.178e−02	1.654e−01	PTK2B:385 PRKCA:1251 PRKCB:2018 PLCG1:4715 P2RY2:5624 NA
REACTOME_MUCOPOLYSACCHARIDOSES	−0.3218779	11	2.184e−04	1.337e−02	GLB1:325 NAGLU:816 GALNS:1145 ARSB:1365 HYAL1:1726 IDS:2493
REACTOME_FORMYL_PEPTIDE_RECEPTORS_BIND_F	0.3165495	4	2.832e−02	2.618e−01	ANXA1:429 FPR2:607 APP:3362 HEBP1:7369 NA NA
WP_IRINOTECAN_PATHWAY	−0.3161342	4	2.853e−02	2.623e−01	SLCO1B1:2097 ABCC1:2228 UGT1A1:3072 BCHE:4369 NA NA
WP_STEROID_HORMONE_PRECURSOR_BIOSYNTHESI	−0.3145697	7	3.947e−03	8.537e−02	CYP11A1:79 CYP17A1:94 SRD5A1:301 CYP21A2:431 HSD3B2:652 SRD5A2:5895
REACTOME_MUSCARINIC_ACETYLCHOLINE_RECEPT	0.3144163	5	1.489e−02	1.896e−01	CHRM4:1231 CHRM2:1374 CHRM3:1455 CHRM1:1757 CHRM5:9015 NA
NIKOLSKY_BREAST_CANCER_17P11_AMPLICON	0.3109563	10	6.613e−04	2.899e−02	RNF112:32 EPN2:469 ULK2:1500 ALDH3A1:1520 MAPK7:1999 ALDH3A2:2061
REACTOME_REGULATION_OF_NPAS4_GENE_TRANSC	0.3107029	4	3.138e−02	2.711e−01	NR3C1:1080 KCNIP3:1110 NPAS4:1326 SRF:8599 NA NA
REACTOME_HDL_REMODELING	0.3103429	8	2.367e−03	6.648e−02	APOA1:262 ABCG1:902 PLTP:1103 APOE:2252 LCAT:3287 LIPG:3855
REACTOME_TETRAHYDROBIOPTERIN_BH4_SYNTHES	0.3093676	9	1.309e−03	4.352e−02	DHFR:616 PRKG2:1418 HSP90AA1:1687 AKT1:2785 GCH1:3200 SPR:3290
REACTOME_DOPAMINE_RECEPTORS	0.3085783	4	3.255e−02	2.750e−01	DRD5:154 DRD1:296 DRD2:872 DRD3:10944 NA NA
MCGOWAN_RSP6_TARGETS_DN	0.3082338	3	6.443e−02	3.695e−01	ELAPOR1:664 DIDO1:2637 FBXO38:5905 NA NA NA
REACTOME_VITAMINS	−0.3080159	6	8.975e−03	1.438e−01	CYP24A1:564 CYP2R1:814 CYP26C1:2380 CYP27B1:2762 CYP26B1:5217 CYP26A1:6721
SMID_BREAST_CANCER_ERBB2_DN	0.3079712	4	3.290e−02	2.765e−01	FGFR2:1677 NPY1R:1980 GABRP:2047 SOX10:6568 NA NA
REACTOME_SYNTHESIS_OF_WYBUTOSINE_AT_G37_	−0.3072917	6	9.137e−03	1.460e−01	TYW1:797 LCMT2:830 TRMT5:1408 TRMT12:4191 TYW5:5647 TYW3:5673
REACTOME_SODIUM_COUPLED_SULPHATE_DI_AND_	0.3052911	5	1.806e−02	2.127e−01	SLC13A3:562 SLC13A1:835 SLC13A4:3416 SLC13A5:4894 SLC13A2:5898 NA
REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHE	0.3042982	11	4.745e−04	2.386e−02	PKP1:18 DSP:97 DSG3:110 TJP1:286 DSG2:1995 CASP3:2024
REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NE	0.3027167	10	9.167e−04	3.611e−02	TRPC4:68 TRPC5:191 TRPC1:247 TRPC3:742 DCC:1749 TRPC7:1866
WP_NIPBL_ROLE_IN_DNA_DAMAGE_CORNELIA_DE_	−0.3023446	7	5.600e−03	1.056e−01	RNF168:620 ATM:623 ATR:1285 CBX3:1774 H2AX:5270 NIPBL:6100
DELASERNA_TARGETS_OF_MYOD_AND_SMARCA4	0.3010511	9	1.762e−03	5.524e−02	TNNT2:77 BIN1:214 MYOG:443 MYH3:1091 TNNI2:2553 TNNT3:2809
MOOTHA_PYR	0.3009076	8	3.204e−03	7.712e−02	PDP1:1419 PDK1:1502 PDK4:1711 PDHA1:2255 PDHB:3077 PDHA2:3178
NIKOLSKY_BREAST_CANCER_7P22_AMPLICON	0.2995220	37	2.907e−10	1.257e−07	INTS1:232 TMEM184A:568 CHST12:583 ADAP1:677 IQCE:815 GPER1:1290
BIOCARTA_ALTERNATIVE_PATHWAY	0.2968848	7	6.522e−03	1.163e−01	C8A:1577 CFB:2784 C6:3070 C3:3219 C5:3607 CFD:4010
JI_CARCINOGENESIS_BY_KRAS_AND_STK11_UP	0.2962925	10	1.176e−03	4.017e−02	PKP1:18 TIAM1:233 KRT5:241 BNC1:611 COL17A1:1018 GPR87:3015
WP_ALTERNATIVE_PATHWAY_OF_FETAL_ANDROGEN	−0.2959590	9	2.107e−03	6.082e−02	CYP11A1:79 CYP17A1:94 HSD3B2:652 HSD17B3:1323 STAR:1599 HSD17B6:4021
NIKOLSKY_BREAST_CANCER_16P13_AMPLICON	−0.2939147	99	5.634e−24	3.656e−20	PKD1:15 PGAP6:77 WDR90:85 ZNF213:104 TBL3:114 PTX4:115
BIOCARTA_WNT_LRP6_PATHWAY	−0.2930406	6	1.292e−02	1.730e−01	WNT8A:792 DKK2:1397 WNT8B:1434 DKK1:2430 KREMEN2:6252 FZD1:7585
BIOCARTA_BARD1_PATHWAY	−0.2919756	8	4.237e−03	8.903e−02	FANCG:125 FANCE:1494 FANCD2:1744 FANCA:1751 FANCF:3696 BRCA1:3760