

# EnrichmentHsSymbolsFile2 Top pathways by non-permutation

Geneset	stat	num.genes	pval	p.adj	gene.vals
WP_ALLOGRAFT_REJECTION	0.17085625	70	7.795e-07	2.673e-03	CXCL13:16 CD28:238 C6:267 LRRK2:321 CD80:335 TNF:424
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACT	0.09934798	208	8.241e-07	2.673e-03	OSMR:8 CXCL13:16 IFNAR1:39 TNFSF10:94 TNFRSF4:116 CX3CR1:147
REACTOME_FORMATION_OF_THE_CORNIFIED_ENVE	-0.13492598	78	3.833e-05	6.217e-02	PPL:27 KRT78:148 KRT4:197 EVPL:225 JUP:291 KRT80:333
WP_CONTROL_OF_IMMUNE_TOLERANCE_BY_VASOAC	0.33271560	13	3.271e-05	6.217e-02	CD28:238 CD80:335 IL10:543 FAS:577 CD86:676 IL2:683
REACTOME KERATINIZATION	-0.12540656	85	6.498e-05	8.432e-02	PPL:27 KRT78:148 KRT4:197 EVPL:225 JUP:291 KRT80:333
REACTOME_COMPLEMENT_CASCADE	0.17798578	40	9.850e-05	9.201e-02	CLU:47 C6:267 CPB2:279 CFI:615 GZMM:818 C1S:893
WP_COMPLEMENT_SYSTEM_IN_NEURONAL_DEVELOP	0.11945463	89	9.927e-05	9.201e-02	CSMD1:21 CLU:47 ATP10A:89 MERTK:126 CX3CR1:147 C6:267
REACTOME_CELL_SURFACE_INTERACTIONS_AT_TH	0.10948268	100	1.568e-04	1.119e-01	ITGA4:46 SELP:102 MERTK:126 SELE:207 LYN:262 PECAM1:280
HSIAO_LIVER_SPECIFIC_GENES	0.07755824	199	1.663e-04	1.119e-01	F13B:5 APOA1:19 KYNU:78 F11:112 SDS:151 FGG:165
KEGG_HEMATOPOIETIC_CELL_LINEAGE	0.12898923	71	1.725e-04	1.119e-01	ITGA4:46 ITGA2:160 ITGA1:202 IL5RA:241 FLT3:255 TNF:424
WP_PROSTAGLANDIN_SIGNALING	0.20083379	28	2.352e-04	1.196e-01	CD28:238 TNF:424 IL17A:703 PTGES:733 CXCL10:876 CSF1:976
BIOCARTA_TH1TH2_PATHWAY	0.24341077	19	2.397e-04	1.196e-01	CD28:238 IFNGR1:265 CD86:676 IL2:683 IL18:775 IFNGR2:823
KEGG_CELL_ADHESION_MOLECULES_CAMS	0.10021687	114	2.218e-04	1.196e-01	VCAM1:2 CLDN8:30 ITGA4:46 SELP:102 ICAM2:124 SELE:207
WP_NETWORK_MAP_OF_SARSCOV2_SIGNALING_PAT	0.07696023	173	4.891e-04	2.183e-01	CXCL13:16 APOA1:19 TNFSF10:94 SELP:102 FGG:165 IGFBP3:287
WP_PRADERWILLI_AND_ANGELMAN_SYNDROME	0.13503998	54	6.005e-04	2.183e-01	HERC2:1 ATP10A:89 TUBGCP5:90 TP53:307 GABRB3:347 GABRD:358
BILD_MYC_ONCOGENIC_SIGNATURE	-0.07528288	180	5.048e-04	2.183e-01	ADGRF1:4 EEF1AKMT4:131 SSH3:170 NOP2:214 DDX10:224 LAMC2:247
KEGG_ALLOGRAFT_REJECTION	0.21120416	22	6.056e-04	2.183e-01	CD28:238 CD80:335 TNF:424 IL10:543 FAS:577 CD86:676
KEGG_GRAFT_VERSUS_HOST_DISEASE	0.23552762	18	5.414e-04	2.183e-01	CD28:238 CD80:335 TNF:424 FAS:577 CD86:676 IL2:683
LIU_OVARIAN_CANCER_TUMORS_AND_XENOGRAFTS	0.02820898	1320	6.880e-04	2.349e-01	VCAM1:2 OSMR:8 LRRN3:12 CXCL13:16 CSMD1:21 CLEC4E:22
WP_OVERVIEW_OF_PROINFLAMMATORY_AND_PROFI	0.10993586	79	7.353e-04	2.385e-01	CXCL13:16 TSLP:167 CXCL6:311 TNF:424 IL10:543 IL33:657
REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOK	0.15298252	40	8.163e-04	2.407e-01	CXCL13:16 CX3CR1:147 CCRL2:175 CXCL6:311 CCR3:380 CCR6:544
REACTOME_SENSORY_PERCEPTION	-0.05608024	305	7.828e-04	2.407e-01	OR10Z1:6 CALHM1:13 OPN1SW:28 OR10A4:40 OR52W1:52 CALHM3:67
WP_FOLATE_METABOLISM	0.12801875	56	9.248e-04	2.609e-01	APOA1:19 SCARB1:137 FGG:165 MTR:190 TP53:307 ALB:422
BIOCARTA_CYTOKINE_PATHWAY	0.23753256	16	1.004e-03	2.624e-01	IL16:412 TNF:424 IL10:543 IL2:683 IL17A:703 IL18:775
KEGG_OLFACTORY_TRANSDUCTION	-0.08456147	127	1.011e-03	2.624e-01	OR10Z1:6 OR10A4:40 OR52W1:52 OR5AU1:135 OR10J3:143 OR52B6:149
NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON	-0.12890603	52	1.307e-03	2.826e-01	HTRA4:159 CHRNA6:166 KAT6A:182 STAR:259 ADRB3:262 ANK1:263
ANDERSEN_CHOLANGIOCARCINOMA_CLASS2	-0.07599961	153	1.195e-03	2.826e-01	ADGRF1:4 REG4:70 KLK10:79 TSPAN1:142 MECOM:188 CLIC3:239
SAUL_SEN_MAYO	0.09280800	101	1.281e-03	2.826e-01	ITGA2:160 IGFBP2:173 PECAM1:280 IGFBP3:287 TNF:424 IQGAP2:468
BIOCARTA_NKT_PATHWAY	0.19126431	24	1.182e-03	2.826e-01	CD28:238 IFNGR1:265 CCR3:380 IL2:683 CCR1:802 IFNGR2:823
KEGG_TYPE_I_DIABETES_MELLITUS	0.17658588	28	1.221e-03	2.826e-01	HSPD1:201 CD28:238 CD80:335 TNF:424 FAS:577 CD86:676
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_D	0.19697463	22	1.384e-03	2.896e-01	SHCBP1:197 ORC6:300 NETO2:369 ITFG1:455 PHKB:621 VPS35:878
KEGG_LEISHMANIA_INFECTION	0.11772655	61	1.479e-03	2.999e-01	ITGA4:46 IFNGR1:265 TNF:424 IL10:543 PRKCB:705 TLR4:725
REACTOME_FERTILIZATION	0.19971149	21	1.535e-03	3.017e-01	ADAM20:52 ZP4:129 ZP2:476 ADAM2:691 CATSPERG:782 CD9:1033
REACTOME_OLFACTORY_SIGNALING_PATHWAY	-0.08588212	113	1.628e-03	3.028e-01	OR10Z1:6 OR10A4:40 OR52W1:52 OR5AU1:135 OR10J3:143 OR52B6:149
SA_MMP_CYTOKINE_CONNECTION	0.25230649	13	1.633e-03	3.028e-01	TNF:424 TNFRSF8:720 CSF1:976 TGFB1:1191 CD44:1232 IL6R:1508
CHEN_LIVER_METABOLISM_QTL_CIS	0.09947876	83	1.743e-03	3.141e-01	CDH19:17 UAP1:93 DUSP12:150 NAV1:187 CEP170:210 DDR2:276
WP_T_CELL_MODULATION_IN_PANCREATIC_CANCE	0.14091133	41	1.801e-03	3.157e-01	TNFRSF4:116 CD28:238 CD80:335 ICOS:529 IL10:543 FAS:577
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	0.23800687	14	2.046e-03	3.190e-01	IGFBP3:287 AGL:301 AMFR:679 C6orf120:882 ORM1:1254 SLC31A1:1588
BIOCARTA GRANULOCYTES_PATHWAY	0.23972781	14	1.898e-03	3.190e-01	SELP:102 ICAM2:124 PECAM1:280 TNF:424 IFNG:1395 ITGB2:1837
BIOCARTA_LYM_PATHWAY	0.25656510	12	2.088e-03	3.190e-01	VCAM1:2 ITGA4:46 ICAM2:124 PECAM1:280 CD34:983 ITGB2:1837