

Functional pathways modulated during differentiation of HL60 cells. Pathways with p-value<0.02 and containing>10 genes were selected.

INCREASED GENES				
Term	Count	PValue	Genes	Fold Enrichment
Lysosome	32	6,45E-12	HEXB, CTSA, ACP2, ASAH1, GLB1, SLC11A1, AP1S2, LAPTM5, IDS, GNPTAB, TPP1, NAGA, ENTPD4, ATP6V0D1, GBA, CLN3, PSAP, CTSS, CD164, FUCA1, M6PR, GNS, DNASE2, LAMP1, IGF2R, SMPD1, CTSD, NEU1, CTSC, CTSB, CTSH, GGA2	4,15
Chemokine signaling pathway	31	3,29E-06	CCL3, GNAI2, FGR, PREX1, CCR1, NFKBIA, CCL4, CCL22, CCL20, CCL3L1, SOS2, PRKACA, PAK1, PLCB2, PIK3CG, IL8, LYN, NCF1, HCK, RAF1, CCL4L1, VAV1, PRKCD, STAT2, PRKCB, ARRB1, GNB1, CXCL16, JAK2, RAP1B, GRK5	2,52
Toll-like receptor signaling pathway	19	8,01E-05	PIK3CG, CCL3, IL8, TBK1, TLR1, NFKBIA, TLR4, CCL4, IFNAR1, IRAK4, IKBKE, MYD88, JUN, RIPK1, CASP8, IL1B, TRAF6, CD14, SPP1	2,86
NOD-like receptor signaling pathway	14	1,47E-04	CARD8, XIAP, IL8, NFKBIA, NLRP3, BIRC2, NLRC4, ERBB2IP, CASP8, RIPK2, IL1B, TNFAIP3, CASP1, TRAF6	3,43
Natural killer cell mediated cytotoxicity	21	3,66E-04	PIK3CG, ICAM1, HLA-A, RAF1, ITGB2, HLA-C, HLA-B, HLA-E, VAV1, HLA-G, IFNAR1, PRKCB, TNFRSF10B, TNFRSF10D, SOS2, NFAT5, PPP3CB, FCER1G, PAK1, IFNGR1, LCP2, SYK	2,40
Fc gamma R-mediated phagocytosis	17	3,90E-04	PIK3CG, PTPRC, LYN, NCF1, HCK, WASF2, RAF1, ARPC5, VAV1, PRKCD, VASP, PRKCB, FCGR2C, MARCKS, FCGR2A, PAK1, SYK	2,72
Endocytosis	24	1,93E-03	STAM2, VPS37B, ACVR1B, SMAP1, VPS4B, ITCH, EHD1, TRAF6, EHD4, STAMBP, TGFB1, VPS45, TGFB2, HLA-A, HLA-C, HLA-B, HLA-E, HLA-G, HLA-F, RAB31, ARRB1, RAB22A, RAB5A, GRK5, PDCD6IP	1,98
Leukocyte transendothelial migration	17	4,13E-03	PIK3CG, ICAM1, NCF2, GNAI2, NCF1, SIPA1, ITGB2, VAV1, ITGB1, ITGAM, VASP, PRKCB, CYBB, RASSF5, PECAM1, RAP1B, RHOF	2,19
MAPK signaling pathway	30	4,56E-03	PPM1A, PPM1B, NFKB2, DAXX, ACVR1B, MAP3K3, SOS2, DUSP16, PPP3CB, IL1B, PRKACA, PAK1, TRAF6, IL1A, TGFB1, NF1, TGFB2, RAF1, STK4, FLNA, PRKCB, MAP4K4, RPS6KA1, ARRB1, JUN, RAP1B, GADD45B, GADD45A, CD14, MAP3K11	1,71
Jak-STAT signaling pathway	19	1,23E-02	PIK3CG, STAM2, PIM1, SOCS4, BCL2L1, IFNAR1, STAT2, TYK2, SPRY1, IL10RB, IL4R, SOS2, SPRED2, CSF2RB, CSF3R, JAK2, PIAS1, CSF2RA, IFNGR1	1,86
RIG-I-like receptor signaling pathway	11	1,67E-02	IKBKE, CYLD, IL8, TBK1, RIPK1, CASP8, NFKBIA, TRAF6, AZI2, TANK, TRADD	2,35
Cytokine-cytokine receptor interaction	27	2,13E-02	CCL3, CCR1, CCL4, IL17RA, ACVR1B, CCL22, CCL20, CCL3L1, IL10RB, IL4R, CSF3R, IL1B, PLEKHO2, CSF2RB, PDGFC, IFNGR1, CSF2RA, IL1A, IL8, TGFB1, TGFB2, CCL4L1, IFNAR1, TNFRSF10B, RELT, TNFRSF10D, CXCL16	1,56
DECREASED GENES				
Term	Count	PValue	Genes	Fold Enrichment
Cell cycle	17	1,52E-05	ANAPC1, CCNH, PRKDC, PKMYT1, CDK6, CDC20, CHEK1, MCM6, CCNB1, ORC2L, CCNB2, HDAC2, BUB1, BUB1B, ORC5L, ANAPC7, BUB3	3,58
Spliceosome	14	8,45E-04	U2AF2, HSPA1A, HSPA1B, SF3B3, CTNNBL1, SFRS7, EIF4A3, PP1E, HNRNPM, USP39, U2AF1, THOC4, HNRNPC, PUF60, BAT1	2,93