

A

Name	P value	Network objects
Immune response_IL-1 signaling pathway	6.67E-07	7/44
Apoptosis and survival_TNFR1 signaling pathway	9.65E-06	6/43
Mucin expression in CF via IL-6, IL-17 signaling pathways	4.28E-05	5/34
Development_Thrombopoetin signaling via JAK-STAT pathway	1.11E-04	4/22
Immune response_Antiviral actions of Interferons	3.38E-04	5/52
Immune response_IL-6 signaling pathway	3.39E-04	4/29
Development_Role of HDAC and calcium/calmodulin-dependent kinase (CaMK) in control of skeletal myogenesis	4.04E-04	5/54
Immune response_TLR signaling pathways	4.79E-04	5/56
Immune response_Oncostatin M signaling via MAPK in mouse cells	7.08E-04	4/35
Immune response_Oncostatin M signaling via MAPK in human cells	8.77E-04	4/37
Transcription_Role of AP-1 in regulation of cellular metabolism	9.72E-04	4/38
Cytokine production by Th17 cells in CF	1.07E-03	4/39
Immune response_Th1 and Th2 cell differentiation	1.18E-03	4/40
Reproduction_GnRH signaling	1.51E-03	5/72
Immune response_MIF-mediated glucocorticoid regulation	2.06E-03	3/22
Immune response_Bacterial infections in normal airways	2.53E-03	4/49
Cytokine production by Th17 cells in CF (Mouse model)	2.53E-03	4/49
Immune response_Function of MEF2 in T lymphocytes	2.72E-03	4/50
Mucin expression in CF via TLRs, EGFR signaling pathways	2.93E-03	4/51
Apoptosis and survival_Endoplasmic reticulum stress response pathway	3.37E-03	4/53

B

Gene group	Gene name or symbol					
	Down-regulation			Up-regulation		
Inflammatory response	HMOX1 MGLL IRAK2 ORM1 ADORA2A STAT5A RIPK2 CXCL10 TNFAIP6 PTGS2	OLR1 NFKB1 CCL4L1 IL6 IL18RAP CCR7		CXCR4 TNFSF4 RXRA PROK2 CYSLTR1 FOS C3AR1 GHRL ADORA3 PPARG	SERPINE1 ZFP36 TNF MMP25 NFKBIZ FPR2 OSM GBA NFATC3 CSF1R	IL10RB DUSP10 ITGAL LTA4H
Immune response	EBI3 AQP9 IRAK2 BCL2 NFKB2 CCL1 RIPK2 CD70 IL7R CXCL10	HERC5 CCL14 TANK IFIH1 AIM2 NFKB1 GBP2 CCL4L1 P2RX7 EOMES	L18R1 TRIM25 CD86 OASL HLA-DQA1 IL6 IL18RAP CCR7 PVR ISG15	IL PSTPIP1 CD37 SIGIRR PELI2 MALT1 LILRB2 CD4 SPN CD1D TNFSF4 FOS KIR2DL4 SASH3 TMEM173 CORO1A FYB PPARG NFIL3 UBE2L6 KIR3DL2 LILRA5 PYCARD ITGAL KIR2DS5 CTSC IL18RAP	PTPN22 FCGR2B C5AR1 GPR183 ICAM4 CD1A KIR2DL3 TREM2 MAPKAPK3 SRPK2 FCGR1B IL27RA EXOSC9 INPP5D IFITM2 BTK CARD9 TNF HLA-DMA HLA-DMB ITGA418R1 TRIM25 CD86 OASL HLA-DQA1	IL6 RNF125 S1PR4 FCGR1A OSM BMI1 FCAR ST6GAL1 WAS FUT7 KIR3DL1 CX3CR1 VEGFA IFITM1 JUN IL10RB MR1 ICAM2 NOTCH1 KIR2DL1 DUSP10 CCR7 PVR ISG15