

supplementary Table 3. Significantly genetic networks affected by F3.

ID	Molecules in networks by IPA tool analysis	Score	Focus Molecules	Top functions
<b>F3 treatment for 6 hrs</b>				
1	<b>CXCL6, DUSP5, G0S2, GBP1, IFI27, IFI35, IFIT3, IFITM1, IL-1R, IL10RA, IL12B, IL1B, IL23A, IRAK, IRF1, IRF2, IRF7, IRF8, ISG15, ISGF3G, KCNAB2, MYD88, OAS1, OAS2, PLSCR1, PSMB9, PYCARD, RSAD2, RTN1, SLC11A2, SQSTM1, STAT1, STAT2, STAT4, UGCG</b>	50	33	Immune Response Cell Signaling
<b>F3 treatment for 24 hrs</b>				
1	<b>ALCAM, AMPD3, BST2, CHST2, ECGF1, ECH1, EHD1, EXT1, GBP2 (includes EG:2634),</b>	45	31	Cell Death
<b>F3 treatment for 6 hrs</b>				
2	<b>BCL2, BCL2A1, Calcineurin protein(s), CASP1, CASP4, CASP5, CASP7, Caspase, Caspase 3/7, CAT, CCL7, CCR1, CKB, CLIC4, DUSP1, EIF4EBP1, FGR, HIP1, IFI6, IFIH1, IFNGR2, MCL1, MT1E, MTF1, PIM2, PLAUR, PMAIP1, PML, SP100, SPHK1, SRD5A1, STAT3, STK3, TNFAIP2, TNFSF10</b>	47	32	Cell Death
3	<b>BTG3, CASP10, CHST2, ECGF1, EHD1, GBP2 (includes EG:2634), HIVEP1, IFIT5, Iκb, IKBKE, IKK, IL1/IL6/TNF, KYNU, LAMP3, LITAF, LSS, NF-κB, NINJ1, OAS3, OASL, OPTN, peptidase, PLA2G7, RAB8A, RIPK1, SERPINB1, TNF, Tnf receptor, TNFAIP3, TNFAIP8, TNFRSF21, TNIP1, TRADD, TRAF1, WTAP</b>	40	29	Cell Death
4	<b>Ahr-aryl hydrocarbon-Arnt, ATF3, BCL6, BIRC3, BTG1, C3AR1, CBFA2T3, CCL8, CYP1B1, DACH1, EHD4, ERK1/2, Fos-Jun, FTH1, GCLM, HESX1, HHEX, HMOX1, JINK1/2, JUN, JUN/JUNB/JUND, JUNB, MAFF, MT2A, MXI1, N-cor, NFE2L2, NFE2L3, NQO1, PDCD4, PLAGL1, PTX3, Rar, RUNX1T1, SLC19A1</b>	38	28	Gene Expression Cellular Development Cell Death
5	<b>Akt, BCL3, C8, CACYBP, Caspase 8/10, CCR7, CD59, CD70, CFLAR, CXCL2, CXCL3, CXCL9, CXCL13, DDX3X, FAS, HPSE, Hsp27, IER3, IL8, LTB, NFKB1, NFKB2, NFKBIE (includes EG:4794), OLIG2, PDE4B, Pdgf Ab, PEA15, PHLDA1, REL, RUNX3, TCR, TNFR/Fas, TNFRSF9, TNFRSF1B, UXS1</b>	38	28	Hematological System Development and Function Immune System Development and Function

	<b>HNRPA0, IFIH1, IFIT5, IL-1R, IL1/IL6/TNF, IL10RA, IRAK, IRF7, IRF8, ISG15, KYNU, LAMP3, MAFF, MYD88, NINJ1, OAS3, OASL, OPTN, peptidase, PLA2G7, PLSCR1, PMAIP1, SHFM1, TLR7, TNF, UBE1L</b>			Hematological System Development and Function Cellular Development
2	<b>ABCD3, CD8, CD163, CTSS, G0S2, GBP1, HLA-A, HLA-B, HLA-C, HLA-E, HLA-F, HLA-G, IL1B, IRF1, IRF2, ISGF3G, LILRB1, LILRB2, MHC Class I, MHC I-<math>\alpha</math>, OAS1, OAS2, PROCR, PRTN3, PSMB9, RSAD2, RTN1, SLC11A2, Tap, TAP1, TAP2, TAPBP, TNFSF10, UAP1, UGCG</b>	45	31	Cell Signaling Immune Response Cellular Growth and Proliferation
3	<b>Akt, CASP10, CAT, CD40, CD83, CFLAR, CXCL13, DKC1, FAS, GRB10, Hsp27, IER3, IKBKE, IL8, IL7R, MUC1, NF-<math>\kappa</math>B, NFKB1, NFKB2, NFKBIA, NFKBIE (includes EG:4794), OLIG2, PROS1, PTAFR, PTPRF, RELB, RET, SQSTM1, TANK, Tnf receptor, TNFAIP3, TNFRSF9, TNFRSF1B, TNIP1, TRAF1</b>	45	31	Cell Death
4	<b>ARL4C, CD37, CD53, Cyclooxygenase, DDX58, EBI3, ENPP2, GK, HOMER3, IFI27, IFI35, IFIT1, IFIT2, IFITM1, IL6, IL23A, INDO, IRS, ISG20, JAK, PDLIM2, PPAR<math>\alpha</math>-RXR<math>\alpha</math>, PPP1R15A (includes EG:23645), PSCDBP, SEMA4A, SLC7A7, SOCS, SP110, STAT, STAT1, STAT2, STAT4, Timp, TTK, WARS</b>	38	28	Immune Response
5	<b>AHR, Ahr-aryl hydrocarbon-Arnt, BMI1, C1q, CCNA1, CDKN1A, CENPF, Cyclin A, Cyclin E, CYP1B1, DHFR, DSE, E2f, E2F8, EID1, IFI16, LGALS3BP, LY96, MYB, PIM1, PNN, PPM1G, PSAP, PTX3, Rb, RBL2, Scf, SKP2, SOD2, Sphk, STMN1, TCF7L2, TFAP2A, TNFAIP6, TOP2A</b>	36	27	Cell Cycle Cellular Growth and Proliferation

\* Bold genes are those determined by microarray analysis and identified by IPA tool. A score of > 3 is considered significant (p < 0.001)