

Supplementary Table 3		
Top Functions in network	Focus Molecules	Molecules in Network
Cell-mediated Immune Response	13	Alp,Alpha catenin,Ap1,BMPR2,CD6,CD58,CDH1,Cg,COL1A1,Collagen type I,Collagen(s),Creb,CTNNA1,CXCR4,Cyclin D,ERK1/2,FOXN3,Growth hormone,Ifn gamma,Igm,IL1,JAK2,LDL,Lh,MAP2K1/2,Mek,NME2,NUCB2,PDGF BB,PI3K (family),Rock,STAT5a/b,Tgf beta,TNKS,TP53I11
Cell Morphology	11	B3GNT2,BEGAIN,beta-estradiol,BEX1,CLPTM1,CLSTN2,COQ7,CYP4F8,DTD1,EVI5,FOLR1,FXYP5,GBA3,GIMAP1,HID1,LRCH4,MAPK1,PIP4K2C,PRKCSH,PRKDC,QSOX1,RBM38,RREB1,SLC35B2,SLC39A3,SLC39A6,SLIT1,SOD2,SSU72,STAG2,SYNGR2,TBCE,TCF20,UBC,ZNF300
Immune Cell Trafficking	10	26s Proteasome,Akt,AMPK,ATG16L1,BCR (complex),caspase,CNR1,CYP24A1,estrogen receptor,Focal adhesion kinase,FYN,GNL3L,Hdac,Histone h4,Hsp90,HSP90B1,IgG1,Igg3,IgG,IL6,IL12 (complex),IL12 (family),Immunoglobulin,Insulin,MALT1,MOG,NFkB (complex),Nos,P38 MAPK,p85 (pik3r),PARP,SLC15A2,SRC (family),TCR,Ubiquitin
Cell-To-Cell Signaling and Interaction	5	AVPR1B,BAI1,CD3,CD6,CD97,CELSR3,Ck2,ERK,FSH,Gpcr,GPR45,GPR63,GPR98,Histone h3,Jnk,LIME1,LPAR2,LPAR3,Mapk,MLL,NPY5R,PI3K (complex),Pkc(s),PLC,PLCL2,Proinsulin,Rac,Ras,Ras homolog,RNA polymerase II,S1PR2,S1PR3,S1PR4,SNAP25,Vegf