

Supplemental Material, Table 5. Top networks in genes differentially expressed in Day 4

	Top Functions	Molecules in Network ^a	Score ^b	Focus Molecule
1	Lipid Metabolism, Small Molecule Biochemistry, Vitamin and Mineral Metabolism	↑ ABCA1 , ↑ ABCG2 , ↑ ACSL3 , ↑ AKR1C3 , ↑ AKR1C1/AKR1C2 , ↑ ALAS1 , ↓ ANGPTL4 , ↑ B3GNT5 , CPT1, ↓ DIO2 , ↑ ENPP1 , ↑ FASN , ↑ G0S2 , ↑ GLRX , ↑ GSR , ↑ HDAC9 , HDL, HDL-cholesterol, ↑ INSIG1 , ↓ KCND3 , LDL-cholesterol, ↑ LSS , ↑ LY96 (includes EG:17087) , ↑ ME1 , N-cor, NCOR-LXR-Oxysterol-RXR-9 cis RA, NFkB (complex), Nr1h, ↓ PDZK1IP1 , PI3K (family), Rxr, SAA, ↑ SCD , ↑ STARD4 , T3-TR-RXR	43	21
2	Cellular Movement, Cellular Growth and Proliferation, Nervous System Development and Function	↓ ADM , Alp, Alpha catenin, ↑ ARHGEF6 , ↑ CBLB , ↑ FOSL1 , ↓ FRY , hemoglobin, HMG CoA synthase, ↑ HMGCS1 , ↑ IDI1 , JUN/JUNB/JUND, ↓ KIT , ↓ LAMA4 , LDL, ↑ LDLR , ↑ LRP8 , LRP, ↑ MSMO1 , NFkb (family), ↓ NPPB , ↑ NQO1 , ↑ OSBPL6 , PDGF BB, PI3K (complex), Pro-inflammatory Cytokine, ↓ PTX3 , ↑ RAB27B , ↑ SERPINB2 , ↑ SERPINE2 , ↑ SNAI2 , Sod, ↑ STEAP2 , ↓ TNFRSF11B , trypsin	34	18
3	Cardiovascular System Development and Function, Cellular Movement, Tumor Morphology	↑ ADAM12 , Akt, ↓ ARID5B , ↑ CD68 , ↓ COL8A1 , collagen, Collagen type I, Collagen type III, Collagen type IV, Collagen(s), ↑ CTSL1 , ↓ EDIL3 , Fibrin, Fibrinogen, ↓ FN1 , ↓ IGFBP3 , ↓ IGFBP7 , Igfbp, Integrin, Integrin alpha V beta 3, ↓ ITGB4 , ↓ ITGB8 , Laminin, ↑ MMP16 , ↑ MMP1 (includes EG:300339) , Notch, ↑ NUPR1 , Pdgf (complex), ↓ PLAC8 , ↑ SERPINB5 , ↓ TAGLN , Tgf beta, ↓ THBS1 , ↓ THBS2 , ↑ TIMP4	23	13
4	Cellular Development, Cellular Growth and Proliferation, Hematological System Development and Function	ADCY, Ap1, ↓ BMP4 , Cpla2, ↑ CYP1B1 , ↓ DHRS3 , ↑ DOCK10 , ↑ EPHX1 , estrogen receptor, FSH, ↑ GAL , Growth hormone, hCG, ↑ HSD17B7 , ↓ ID2 , ↑ IDH1 , IL1, Interferon alpha, Jnk, ↑ KITLG , ↓ LBH , Lh, ↑ MME , ↑ MT1X , ↓ MXD3 , Nfat (family), p85 (pik3r), ↑ PPARG , ↓ SMAD6 , Smad, STAT5a/b, ↑ STEAP1 , ↑ TNIK , ↑ TOX , ↑ UPP1	21	12
5	Cell Morphology, Nervous System Development and Function, Cell Death	↓ ADAMTS5 , BCR, ↑ CCL26 , ↓ CFB* , Collagen Alpha1, ↑ CTH , ↑ DHCR7 , ↑ DHCR7 , ↑ DPP4 , Eotaxin, ERK1/2, ↑ GDNF , ↓ GFRA1 , Gm-csf, Hspg, ↓ IFITM1 , Iga, Ige, IgG1, Igg3, IgG, IgG2a, IgG2b, ↑ IL24 , Immunoglobulin, ↑ LPXN , ↑ PPIF , ↑ PTPN22 , Rsk, Smad1/5/8, ↓ SULF1 , ↓ TACSTD2 , ↑ TNFRSF9 , ↑ TNFRSF21 , ↑ TRIM16 , Vla-4gamma, ↑ SERPINB2 , Sos, STAT5a/b, ↓ TACSTD2 , TCR, Tnf, Vegf	21	12

a. Differentially expressed genes identified by microarray analysis were listed in bold. The arrows ↑ and ↓ indicated up- or down-regulation.

b. A score of > 3 was considered significant (p < 0.0001).