Supplementary Table 2. Top twenty-five networks obtained from IPA analysis of differentially expressed genes among control, 36% -exercise-, and hexose-treated groups.

Network ID	Genes in network	Score	Focus genes	Top diseases and functions
36% vs. Control				
1	ABHD5, ADIPOQ, AHR, BAIAP2, BCKDK, CD274, CHI3L1, CIDEC, CLU, CST3, CYP27A1, DHTKD1, EMID2, ERP27, FABP4, FAM3A, FAM3C, FGF21, FOXO1, GPAM, HAMP, HMGCS2, HSD17B4, IL1R2, IRS2, KCNJ15, LEP, LPIN1, MAP3K11, MAPK8IP3, MCAT, MLYCD, MYO5A, NCOR2, NR1H3, NR4A2, PDK4, PLIN1, PPARGC1A, PPP1R3C, PTGDS, RBP4, SCD, SCN1A, SCN3B, SLC2A1, SLC2A4, SLC35F3, SLC5A3, SORBS1, SPTLC2, STAT5B, TBC1D4, TBX15, TFAP2B, TPI1, TRIB2, TRIM63, TSPO, TSPO2, TTR, TXNIP, UCP3, VAMP5, VAMP8, VEGFA, WDR37, YWHAZ	53	Neurological Disease, Developmental Disorder, Hereditary Disorder	Cell Signaling, Molecular Transport, Post-Translational Modification
2	ABCB1, ACLY, ACOX1, ACSL1, ADAM17, ADRB2, ALDH3A2, ANXA1, ANXA2, ANXA5, ARHGAP1, ARL8B, ATP1A1, ATP1B1, ATP2A2, ATP2B1, ATP2B4, ATP5A1, ATP5B, ATP5C1, ATP5D, ATP5F1, ATP5H, ATP5I, ATP5J, ATP5L, ATP5O, ATP6V0C, ATP6V1A, ATP6V1B2, ATP6V1D, ATP6V1E1, ATP6V1G1, ATP6V1H, BAIAP2, BCKDK, BRAP, C1QBP, CAMK2B, CAMK2D, CAMK2G, CAPZA1, CAPZA2, CAPZB, CCT2, CCT3, CCT4, CCT5, CCT6A, CCT7, CCT8, CD36, CDH5, CFL1, CHCHD3, CLIC1, CLIC4, CLTC, CNP, CNTNAP1, CORO1C, CPT1B, CRYAB, CSRP1, CTNNA1, CTNNB1, CYB5R3, DBN1, DDX39B, DHCR7, DHRS7, DLG4, DNM1, DNM1L, DNM2, DPYSL2, DSTN, EEF1A1, EEF1A2, EEF1B2, EEF1D, EEF1G, EIF3A, EIF3B, EIF3C, EIF3D, EIF3E, EIF3F, EIF3G, EIF3H, EIF3I, EIF3K, EIF3L, EIF4A1, EIF4A2, EIF4B, EIF4G1, EIF4G2, EIF4H, EIF5A, EIF5B, ENO1, ENO2, ENO3, EPB41L2, EPHX1, ERBB2IP, ERP29, ESYT1, ESYT2, FABP3, FAM49B, FASN, FBXO32, FDPS, FGF1, FHL2, FKBP1A, FLOT1, FLOT2, FN1, FNBP1L, FOXO3, FXYD1, GAPDH, GDI1, GDI2, GFAP, GLUL, GNAI1, GNAI2, GNAI3, GNAS, GNB1, GNB2, GNB4, GNG5, GNG12, GOLGA7, GPD1L, GPM6A, GPM6B, GPRC5B, GSN, GSTM1, GSTM3, GSTM4, HADHA, HADHB, HAGH, HAPLN1, HBA1, HBA2, HBB, HBD, HBE1, HBG1, HBG2, HBQ1, HBZ, HCFC1, HDAC6, HEBP1, HEBP2, HIBCH, HIP1R, HMGCS1, HNRNPA1, HNRNPA2B1, HNRNPC, HNRNPD, HNRNPH1, HNRNPH2, HNRNPK, HNRNPL, HNRNPM, HNRNPR, HNRNPU, HSD17B12, HSPA1A, HSPA1B, HSPA1L, HSPA2, HSPA4, HSPA5, HSPA8, HSPA9, HSPB1, HSPB6, HSPB8, HSPD1, HSPE1, HSPH1, HTT, IDH3A, IDH3B, IDH3G, IGF2R, IGFBP2, IGFBP5, IGFBP7, IMPDH2, ITGB1, ITGB4, ITPR1, ITPR2, JUP, KCNAB2, KCNJ8, KIF5B, KPNA2, KRT1, KRT10, KRT14, KRT15, KRT16, KRT17, KRT2, KRT24, KRT25, KRT27, KRT28, KRT3, KRT31, KRT32, KRT33A, KRT33B, KRT34, KRT35, KRT36, KRT37, KRT38, KRT39, KRT4, KRT40, KRT5, KRT6A, KRT6B, KRT6C, KRT7, KRT71, KRT72, KRT73, KRT74, KRT75, KRT76, KRT77, KRT78, KRT79, KRT8, KRT80, KRT81, KRT82, KRT83, KRT84, KRT85, KRT86, KRT9, KRTAP1-1, KRTAP1-3, KRTAP1-5, KRTAP2-1, KRTAP2-2, KRTAP2-3, KRTAP2-4, KRTAP3-1, KRTAP3-2, KRTAP3-3, KRTAP4-1, KRTAP4-11, KRTAP4-12, KRTAP4-2, KRTAP4-3, KRTAP4-4, KRTAP4-5, KRTAP4-6, KRTAP4-7, KRTAP4-8, KRTAP4-9, KRTAP5-1, KRTAP5-10, KRTAP5-11, KRTAP5-2, KRTAP5-3, KRTAP5-4, KRTAP5-5, KRTAP5-6, KRTAP5-7, KRTAP5-8, KRTAP5-9, KRTAP6-1, KRTAP6-2, KRTAP6-3, KRTAP9-1, KRTAP9-2, KRTAP9-3, KRTAP9-4, KRTAP9-6, KRTAP9-8, KRTAP9-9, KRTAP10-1, KRTAP10-10, KRTAP10-11, KRTAP10-12, KRTAP10-2, KRTAP10-3, KRTAP10-4, KRTAP10-5, KRTAP10-6, KRTAP10-7, KRTAP10-8, KRTAP10-9, KRTAP12-1, KRTAP12-2, KRTAP12-3, KRTAP12-4, KRTAP13-1, KRTAP13-2, KRTAP13-3, KRTAP13-4, KRTAP15-1, KRTAP16-1, KRTAP17-1, KRTAP19-1, KRTAP19-2, KRTAP19-3, KRTAP19-4, KRTAP19-5, KRTAP19-6, KRTAP19-7, KRTAP19-8, KRTAP20-1, KRTAP20-2, KRTAP20-3, KRTAP21-1, KRTAP21-2, KRTAP21-3, KRTAP22-1, KRTAP22-2, KRTAP23-1, KRTAP24-1, KRTAP25-1, KRTAP26-1, KRTAP27-1, KRTAP28-1, KRTAP3-1, KRTAP4-1