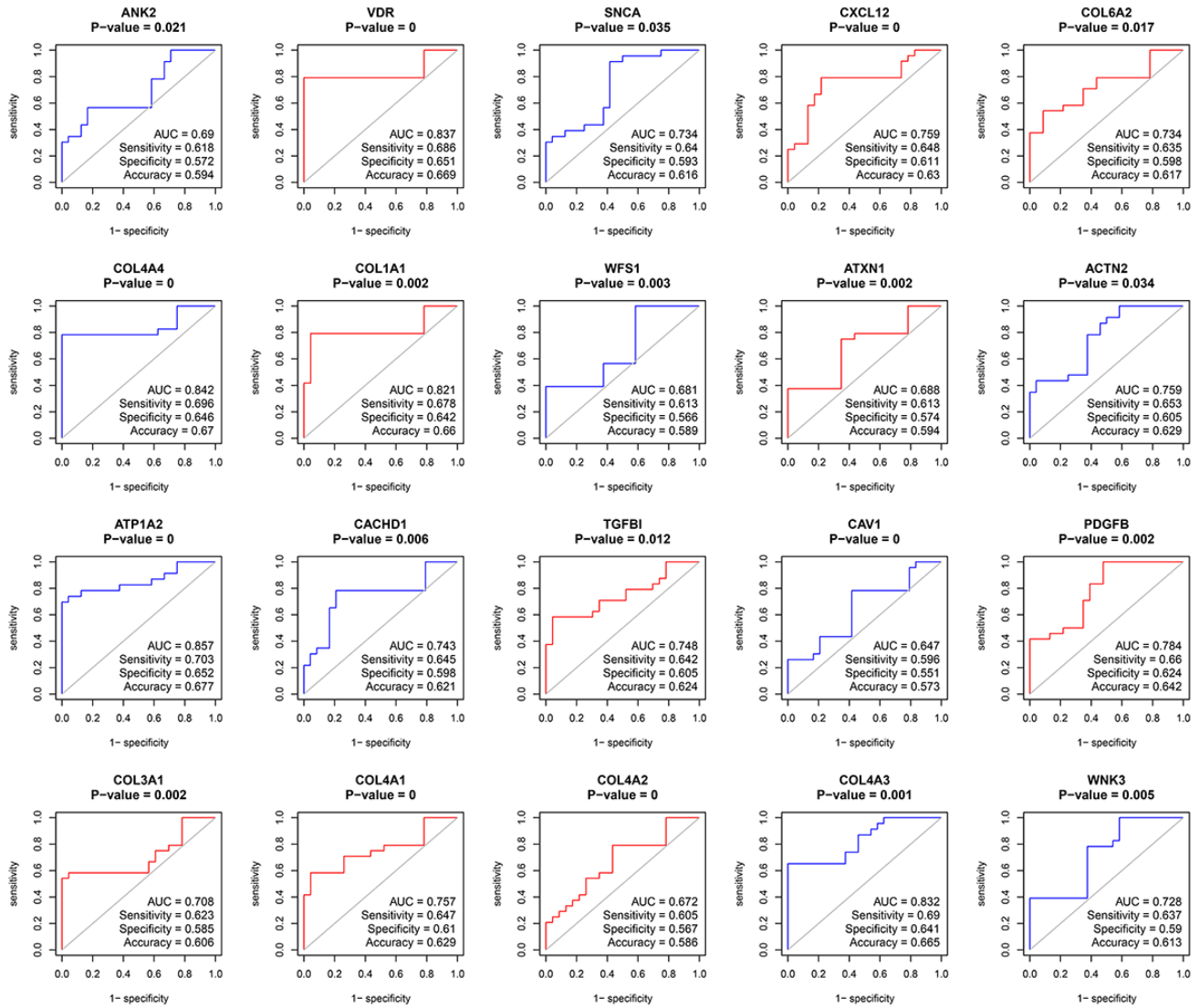
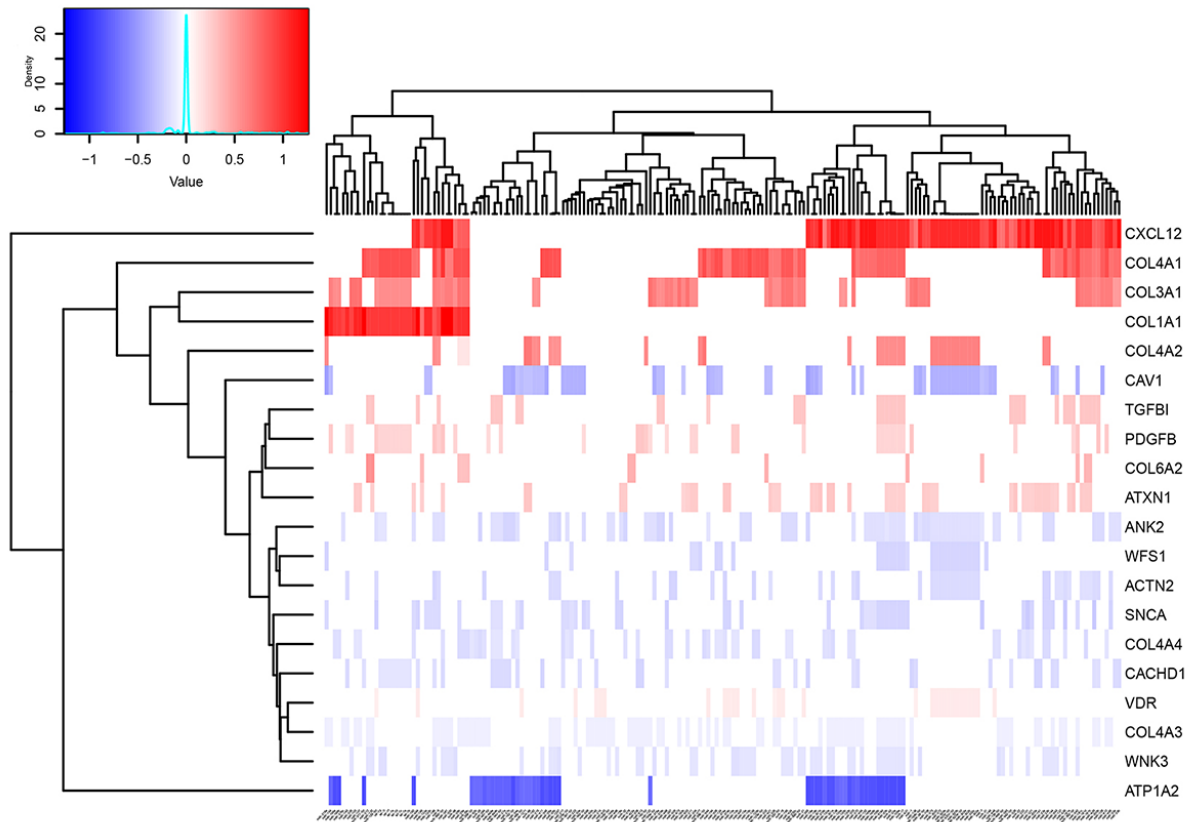


SUPPLEMENTARY MATERIAL



Supplementary Figure 1. Diagnostic characteristics of the twenty hub genes. Diagnostic characteristics including sensitivity, specificity, accuracy and area under curve (AUC). Red and blue curves indicate up-regulated and down-regulated DEGs, respectively.



Supplementary Figure 2. Correlation of hub genes and highly connected miRNAs. Each of the hub gene expression level is reevaluated with its corresponding miRNA and represented by the color's saturation. The relative changed levels represented by the legend's color saturation.

Supplementary Table 1. The genotyping primer lists of the top ten hug genes.

Genes	genotyping primers	Genes	genotyping primers
ACTIN2	F: CAA ACT CCG TCA CCC TCA GT R: GGT GCC AGT GGT TTC TTG TT	COL6A2	F: AGC TCC GTG CTC CTG CTC TG R: ATG GTG ACG CTC TCC GAG GTG
ANK2	F: AAG GCA CCT GTT GAT GAT GTC ACC R: CTG GCG TTC GGA TTG GCT CTC	CXCL12	F: TCG TGG TCG TGG TCC TC R: TTG AGA TGC TTG ACG TTG GCT CTG
ATXN1	F: GTC GGC AGC ACT GAC ATG GAA G R: CGG TGG TGA AGA ACG TGT GAG	SNCA	F: GTG GCA ACA GTG GCT GAG AAG AC R: CCA GTG GCT GAG AAG AC
COL1A1	F: GCG AGA GCA TGA CCG ATG GAT TC R: GCC TTC TTG AGG TTG CCA GTC TG	VDR	F: CAA GGA CAA CCG ACG CCA CTG R: CCT CCT CCT CCT TCC GCT TCA G
COL4A4	F: GGT GAG GTT GGT CAG CAA GGT TC R: CCT GGT GGT CCT GGT AGT CC	WFS1	F: CAA GGT GTT CCA GGA CAG CAA GG R: GGT GGT TCC AGC CGA AGT TGA C