Download expression data of GSE119296
Data processing
Evaluation of immune infiltration
Oxidative stress level were confirmed in AVF patient samples
DEGs
Genecards dataset obtain oxidative stress related genes
GO
Kegg
TFs prediction
miRNA prediction
Identification of OSDEGs
PPI
Hub genes
Key Module
LASSO
SVM
Ramdom forrest
WGCNA analysis
Identification of biomarker gene PTGS2
Validation in GSE39488
Validation in human samples
ROC analysis
Correlation between PTGS2 and immune cells
Validation in AVF animal model with PTGS2 inhibitor NS398
Morphometric analysis
Hemodynamic analysis
VSMC function analysis
Oxidative stress analysis