
A
All genes
TNF-alpha via NF-kB
Hypoxia
Epithelial Mesenchymal Transition
Inflammatory Response
Allograft Rejection
IL-6/JAK/STAT3
Coagulation
Complement
0.0
1.5
3.0
NES
B
Score genes removed
Inflammatory Response
TNF-alpha via NF-kB
Epithelial Mesenchymal Transition
Allograft Rejection
Coagulation
IL-6/JAK/STAT3
Complement
IL-2/STAT5
0.0
1.5
3.0
NES
C
Negative NES
DNA Repair
Spermatogenesis
Myc Targets V2
Myc Targets V1
G2-M Checkpoint
E2F Targets
−3.0
−1.5
0.0
NES
D
STRING network (190 nodes, 637 edges)
CXCR4
TLR2
ITGB2
IL1B
CD44
CXCL8
FN1
CCL2
COL1A1
IL6
Top-10 hub
Hallmark HYPOXIA gene
Other
E
Top-20 hubs
IL6
IL1B
CD44
FN1
CXCL8
TLR2
CCL2
ITGB2
COL1A1
CXCR4
CD163
FCGR3A
ATF3
ITGAM
SERPINE1
C1QB
PLAU
CSF1R
C3
SPP1
0
20
40
STRING degree
In Hallmark set
Not in set
F
Top DE genes
SLC16A3
CA9
ADAM8
SLC11A1
HILPDA
CXCL8
HSPA6
SOCS3
SPOCD1
S100A9
TREM1
AQP9
C5AR1
TAGLN
MMP19
0
1
2
log2 fold change