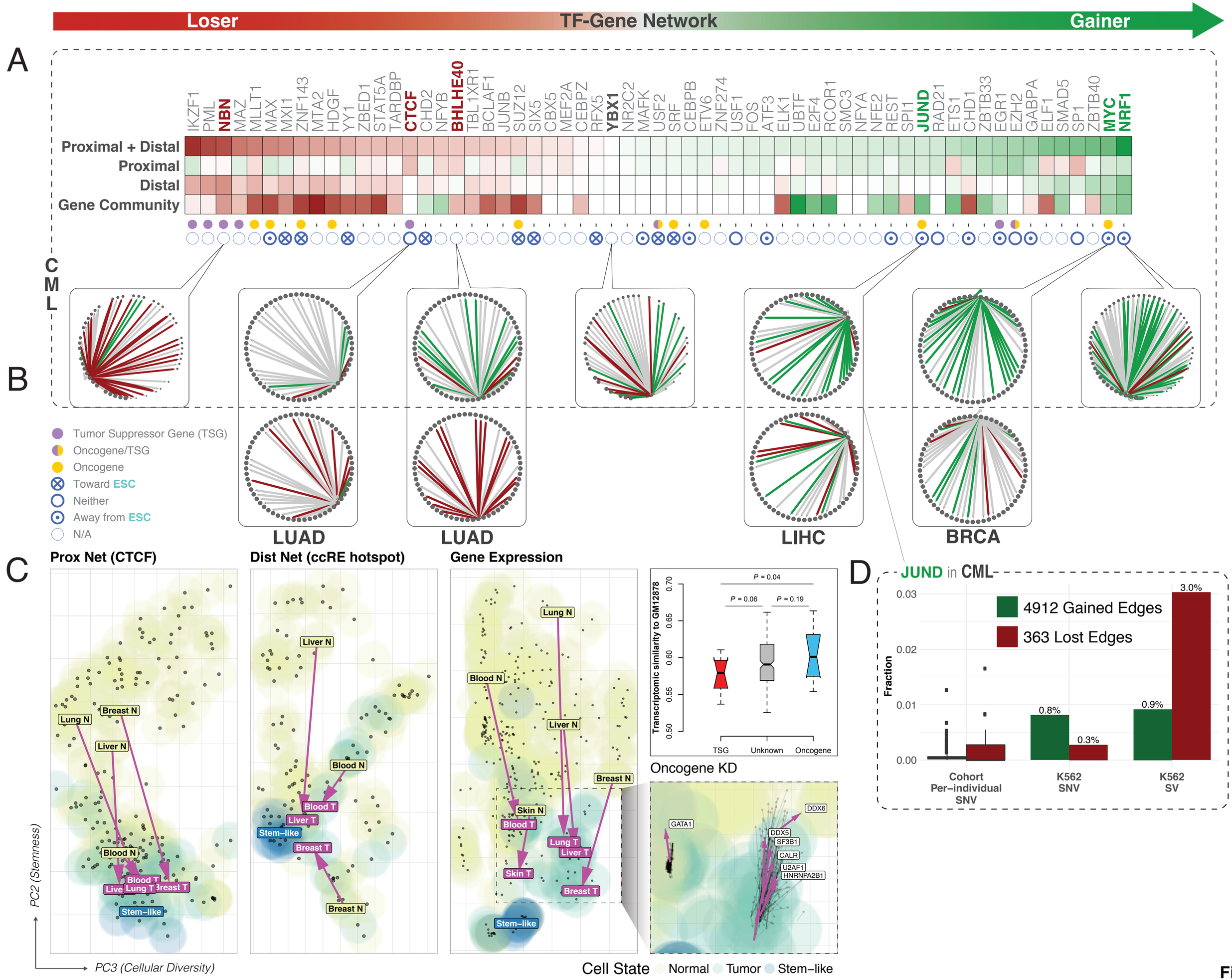
Loser
TF-Gene Network
Gainer
A
IKZF1 PML NBN MAZ MLLT1 MAX MXI1 ZNF143 MTA2 HDGF YY1 ZBED1 STAT5A TARDBP CTCF CHD2 NFYB BHLHE40 TBL1XR1 BCLAF1 JUNB SUZ12 SIX5 CBX5 MEF2A CEBPZ RFX5 YBX1 NR2C2 MAFK USF2 SRF CEBPB ETV6 ZNF274 USF1 FOS ATF3 ELK1 UBTF E2F4 RCOR1 SMC3 NFYA NFE2 REST SPI1 JUND RAD21 ETS1 CHD1 ZBTB33 EGR1 EZH2 GABPA ELF1 SMAD5 SP1 ZBTB40 MYC NRF1
Proximal + Distal
Proximal
Distal
Gene Community
CML
B
Tumor Suppressor Gene (TSG)
Oncogene/TSG
Oncogene
Toward ESC
Neither
Away from ESC
N/A
LUAD
LUAD
LIHC
BRCA
C
Prox Net (CTCF)
Dist Net (ccRE hotspot)
Gene Expression
Lung N
Breast N
Liver N
Blood N
Blood T
Lung T
Liver T
Breast T
Stem–like
Skin N
Skin T
PC2 (Stemness)
PC3 (Cellular Diversity)
Transcriptomic similarity to GM12878
P = 0.04
P = 0.06
P = 0.19
TSG
Unknown
Oncogene
Oncogene KD
GATA1
DDX6
DDX5
SF3B1
CALR
U2AF1
HNRNPA2B1
Cell State
Normal
Tumor
Stem–like
D
JUND in CML
4912 Gained Edges
363 Lost Edges
Fraction
0.8%
0.3%
0.9%
3.0%
Cohort Per–individual SNV
K562 SNV
K562 SV

Fig 5