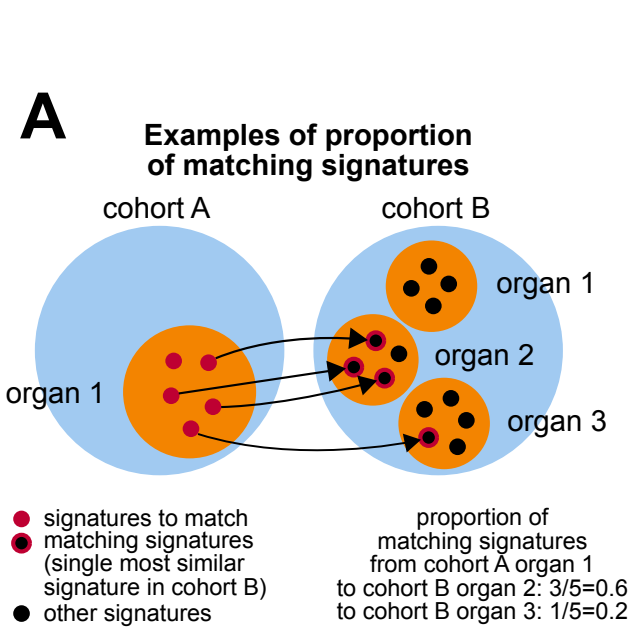
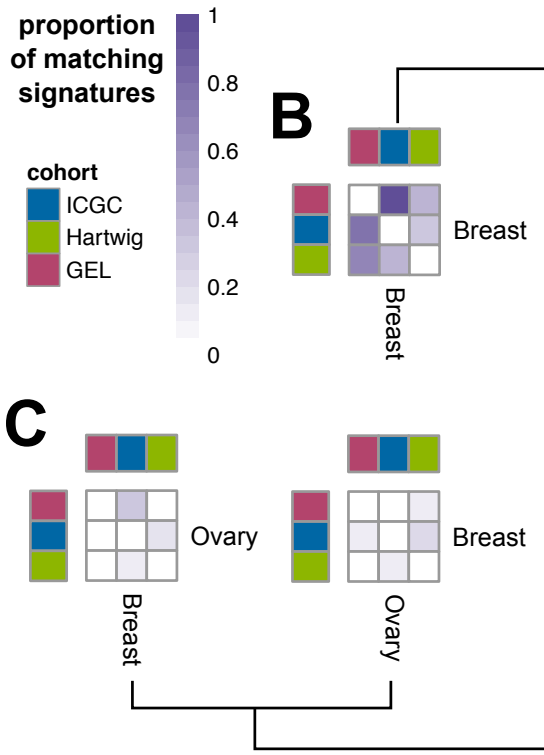
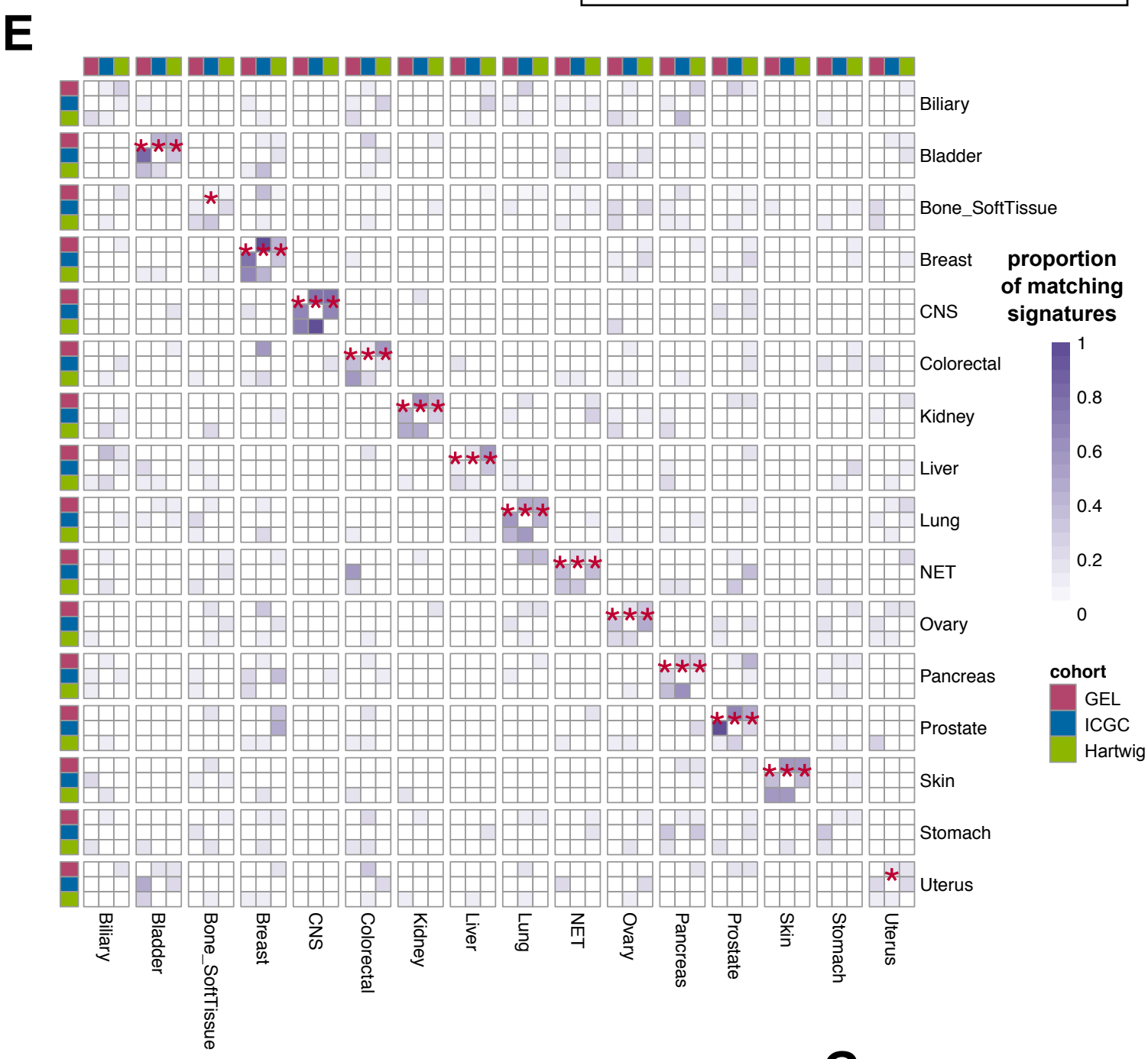
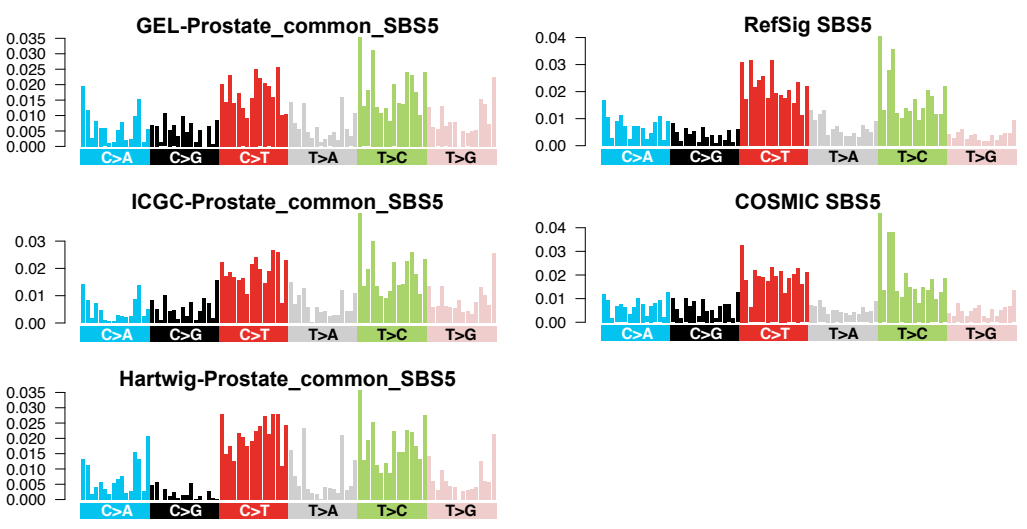
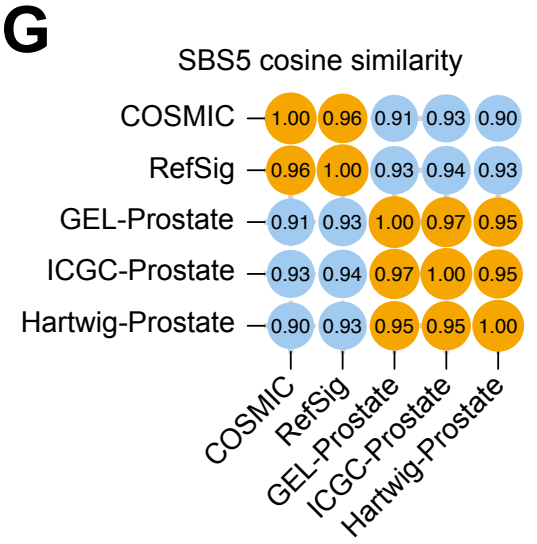
Figure S2


A
Examples of proportion of matching signatures
cohort A
cohort B
organ 1
organ 2
organ 3
organ 1
signatures to match
matching signatures (single most similar signature in cohort B)
other signatures
proportion of matching signatures from cohort A organ 1 to cohort B organ 2: 3/5=0.6 to cohort B organ 3: 1/5=0.2


proportion of matching signatures
1
0.8
0.6
0.4
0.2
0
cohort
ICGC
Hartwig
GEL
B
Breast
Breast
C
Ovary
Breast
Breast
Ovary
D
Proportions Breast
proportion
0.0
0.4
0.8
1.2
Breast:Biliary
Breast:Bladder
Breast:Bone_SoftTissue
Breast:Breast
Breast:CNS
Breast:Colorectal
Breast:Kidney
Breast:Liver
Breast:Lung
Breast:NET
Breast:Ovary
Breast:Pancreas
Breast:Prostate
Breast:Skin
Breast:Stomach
Breast:Uterus


E
Biliary
Bladder
Bone_SoftTissue
Breast
CNS
Colorectal
Kidney
Liver
Lung
NET
Ovary
Pancreas
Prostate
Skin
Stomach
Uterus
proportion of matching signatures
1
0.8
0.6
0.4
0.2
0
cohort
GEL
ICGC
Hartwig


F
GEL-Prostate_common_SBS5
RefSig SBS5
ICGC-Prostate_common_SBS5
COSMIC SBS5
Hartwig-Prostate_common_SBS5
C>A
C>G
C>T
T>A
T>C
T>G


G
SBS5 cosine similarity
COSMIC
RefSig
GEL-Prostate
ICGC-Prostate
Hartwig-Prostate
1.00 0.96 0.91 0.93 0.90
0.96 1.00 0.93 0.94 0.93
0.91 0.93 1.00 0.97 0.95
0.93 0.94 0.97 1.00 0.95
0.90 0.93 0.95 0.95 1.00