

OpenPBTA: an Open Pediatric Brain Tumor Atlas

Figure 1: Process overview + sample distribution

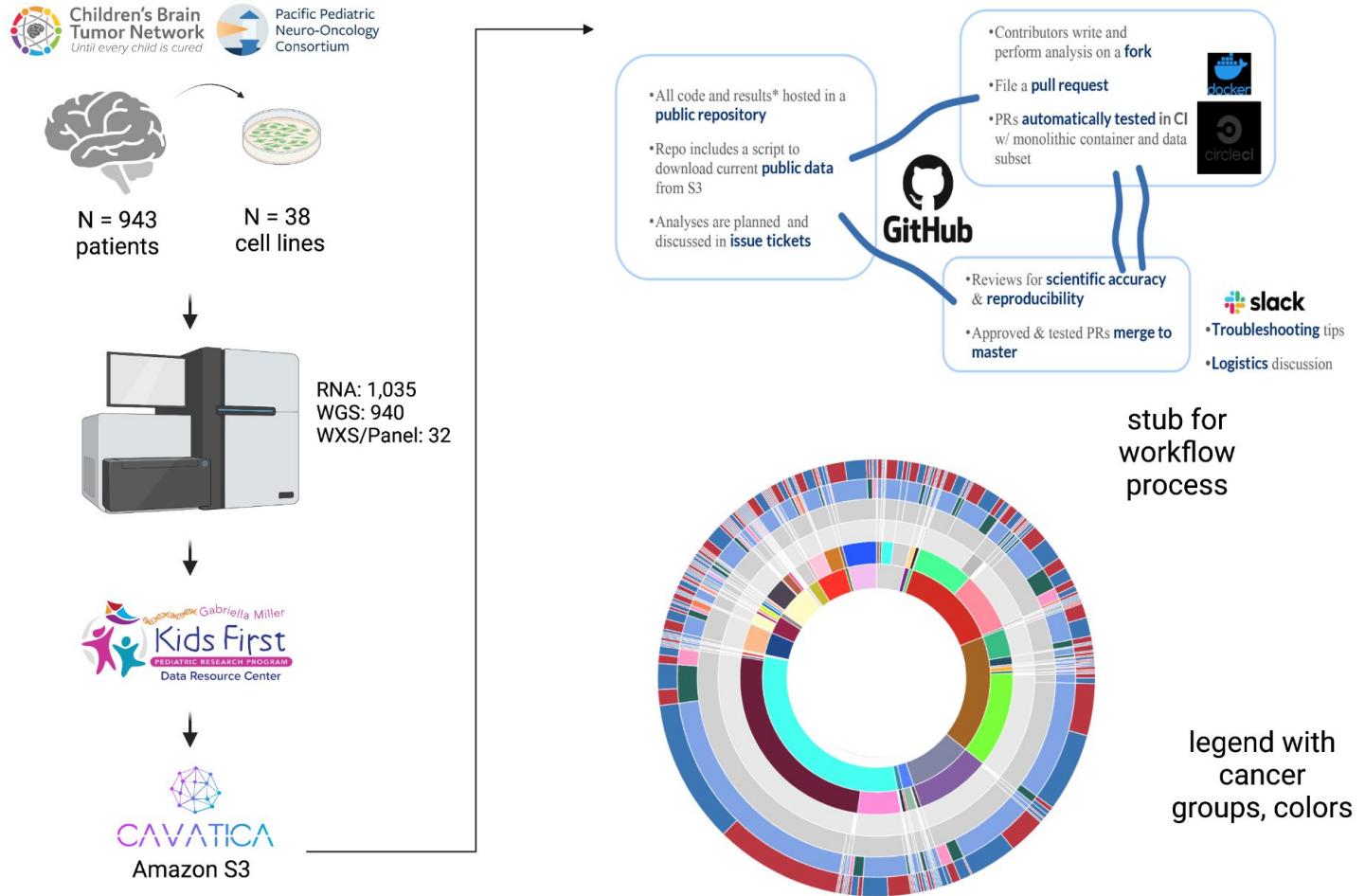


Figure 2: Somatic mutational landscape of Pediatric Brain tumors

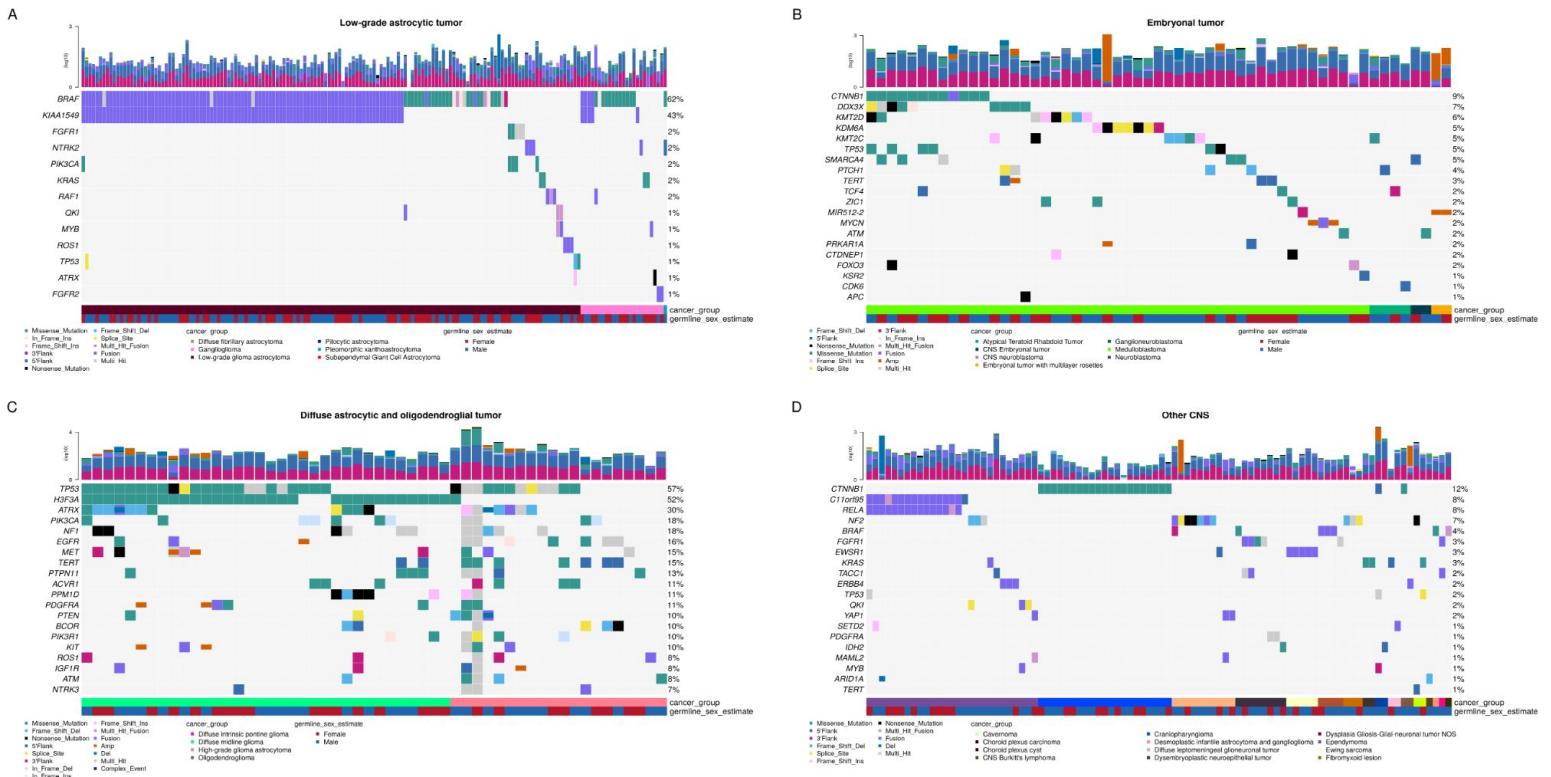


Figure 3: Co-occurrence and CN landscape

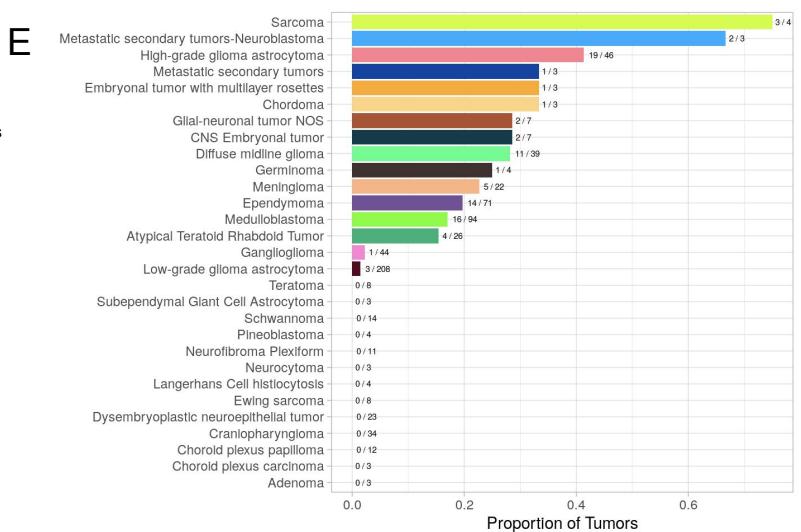
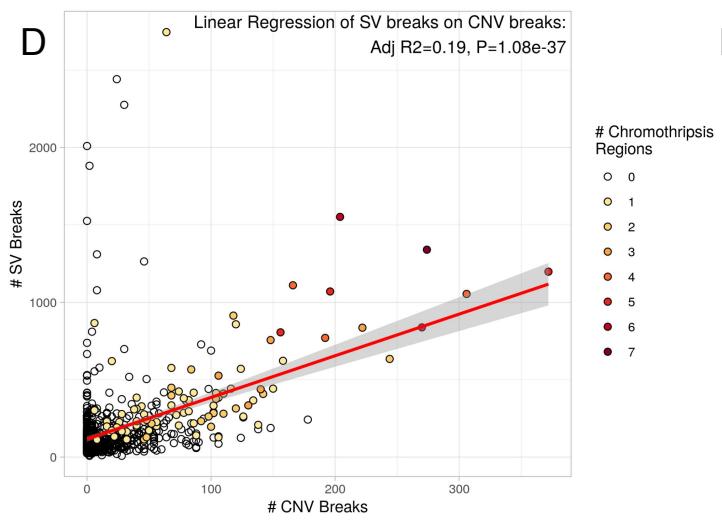
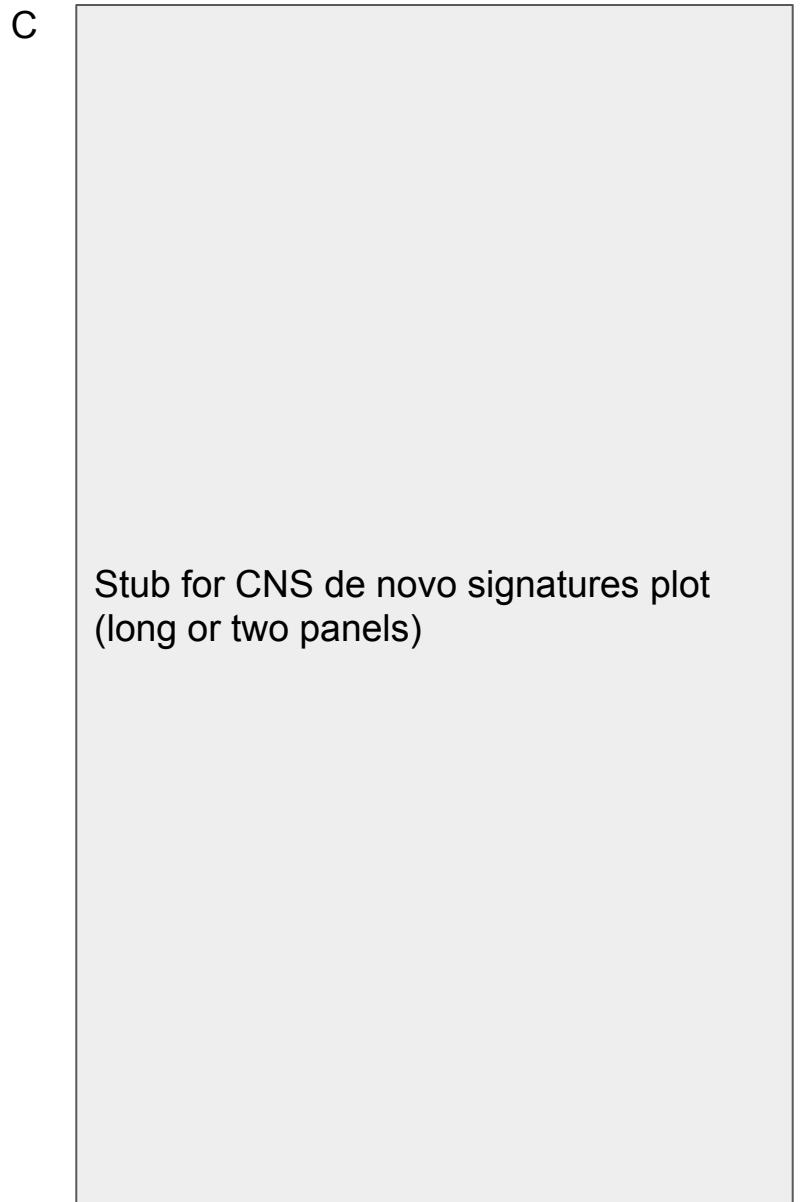
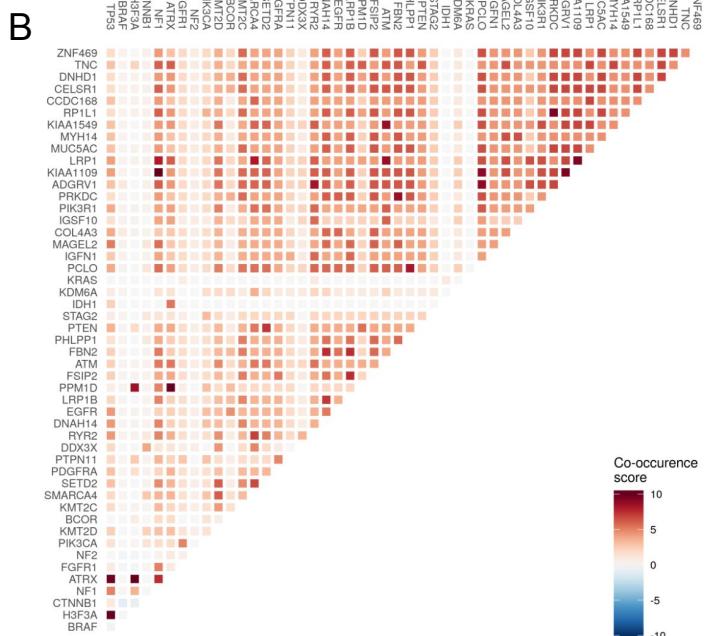
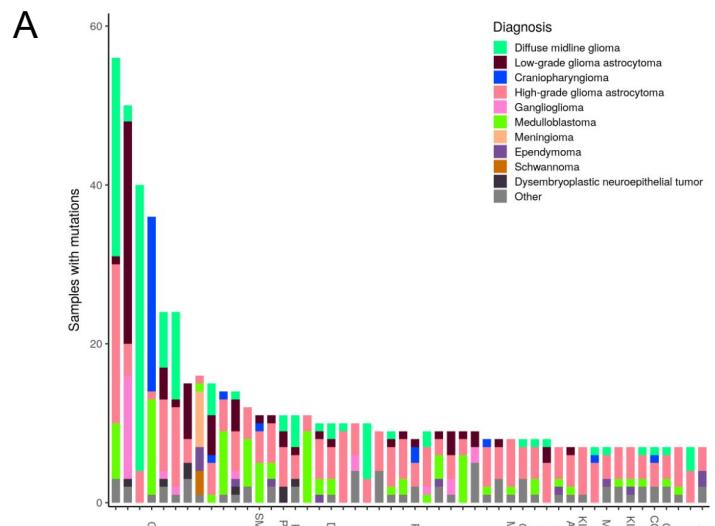


Figure 4: Transcriptomic Overview 1 (UMAP, GSVA, EXTEND)

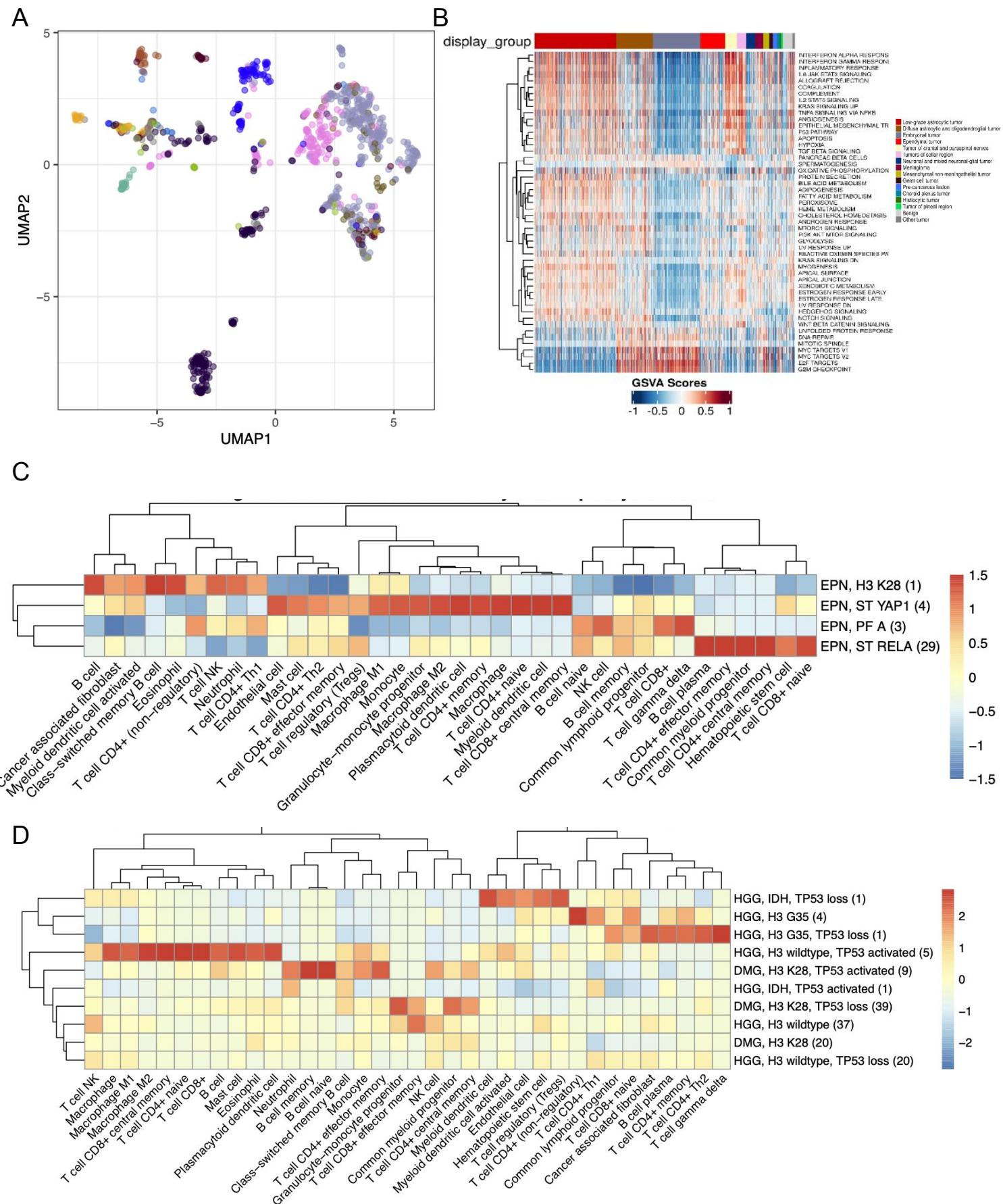
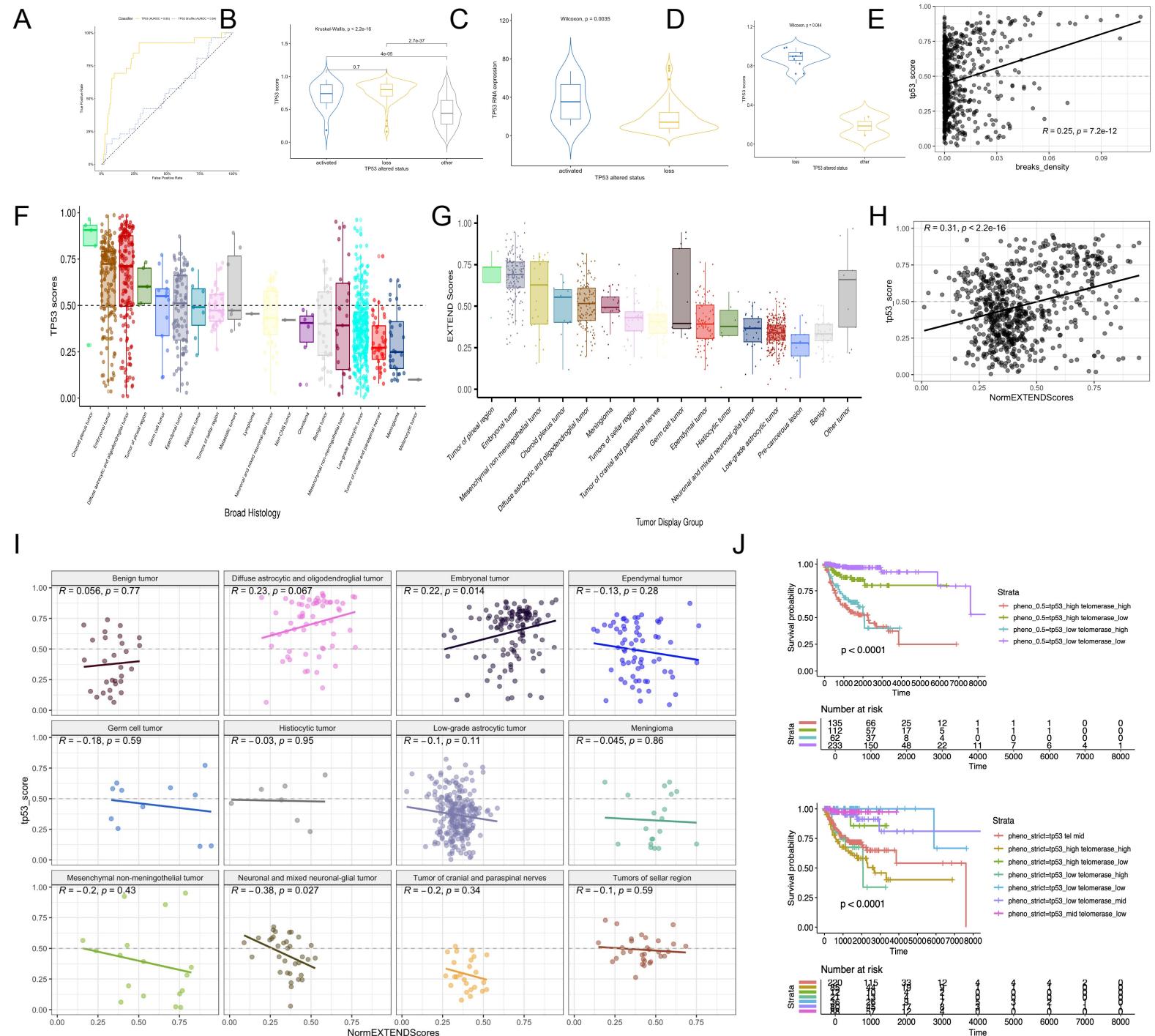


Figure 5: Transcriptomic Overview 2 (TP53)



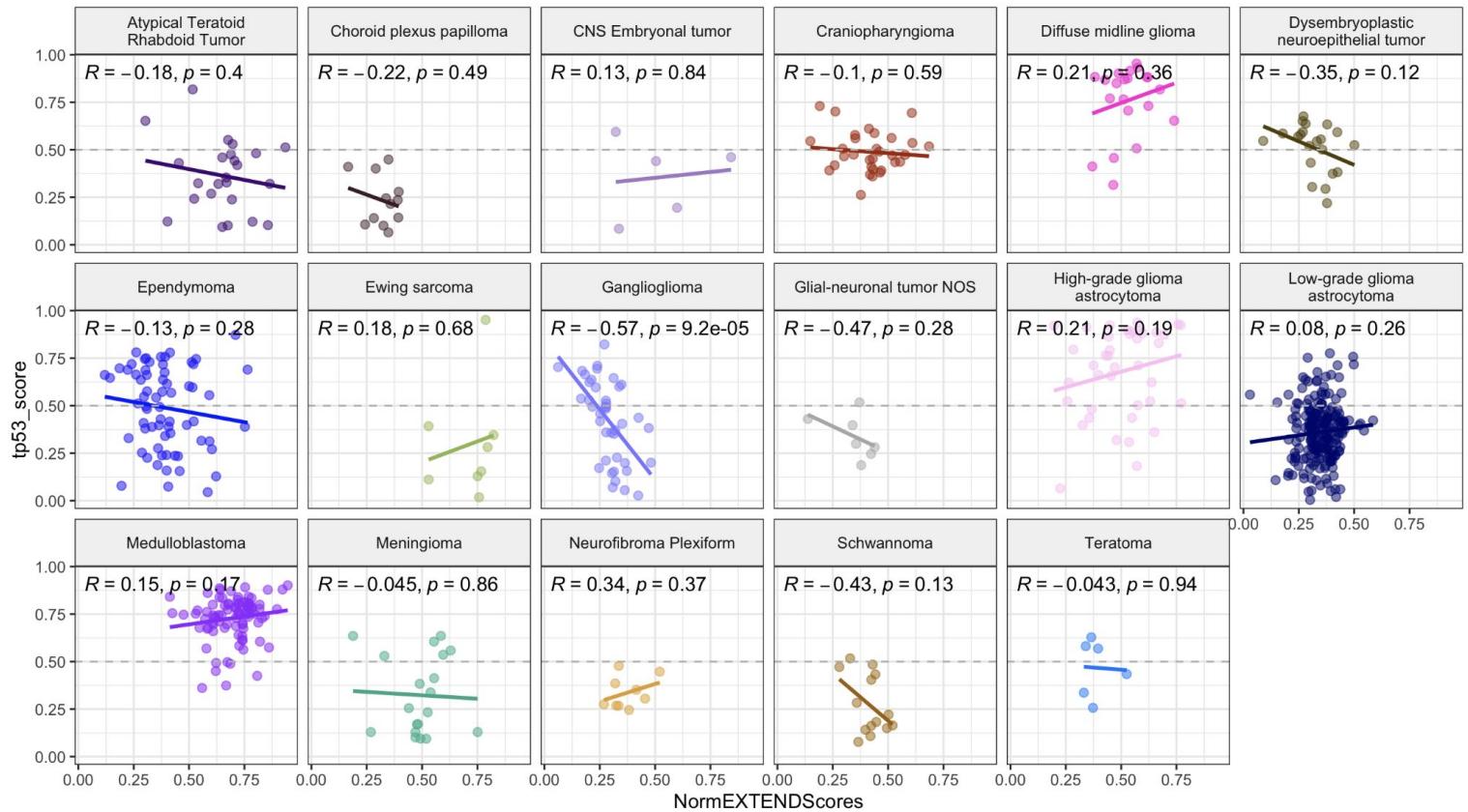


Figure S1: Methods/Workflow, related to all figures

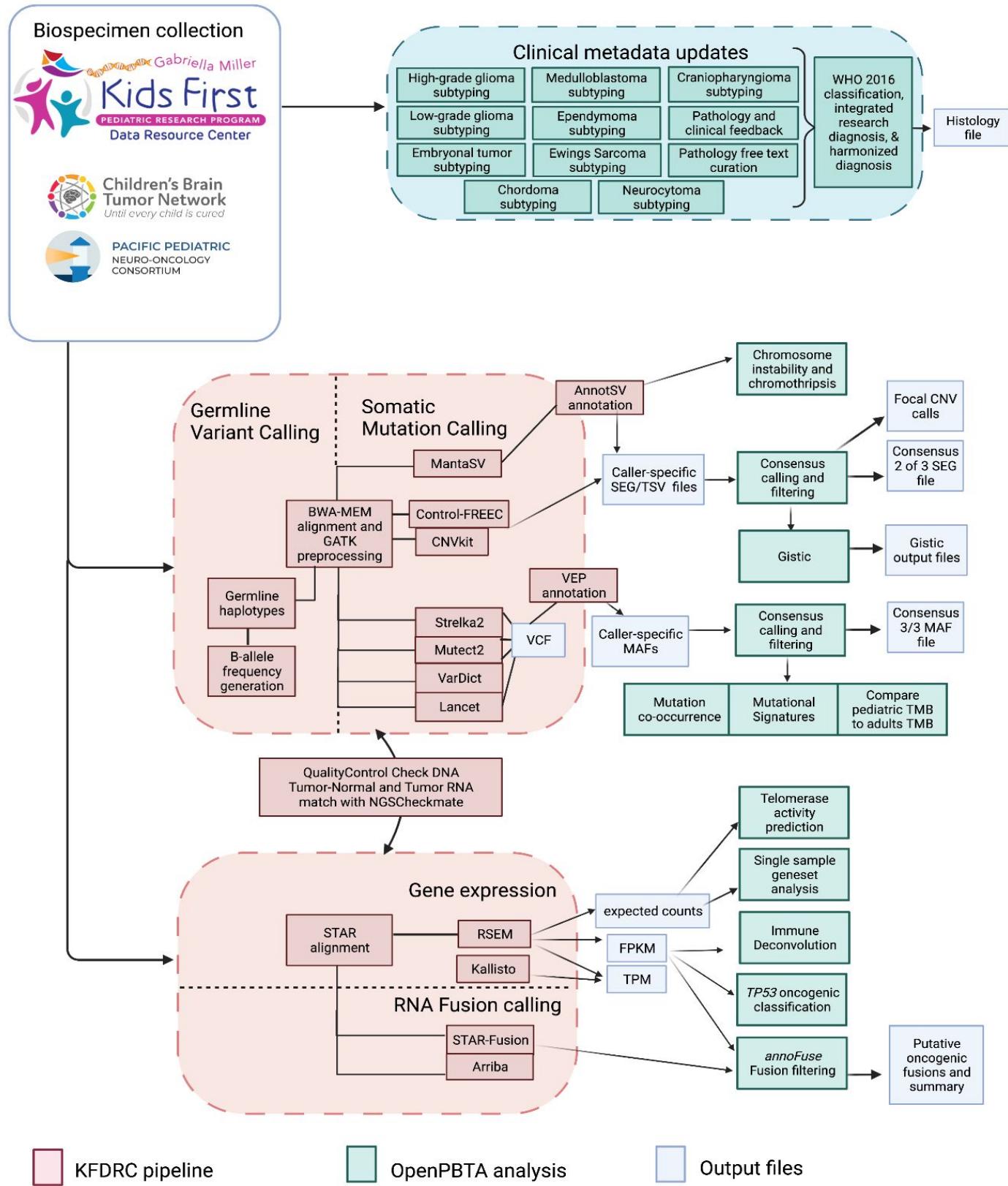
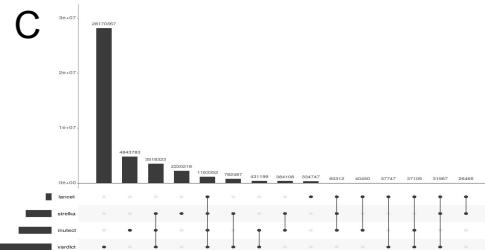
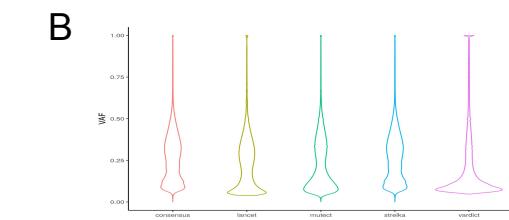
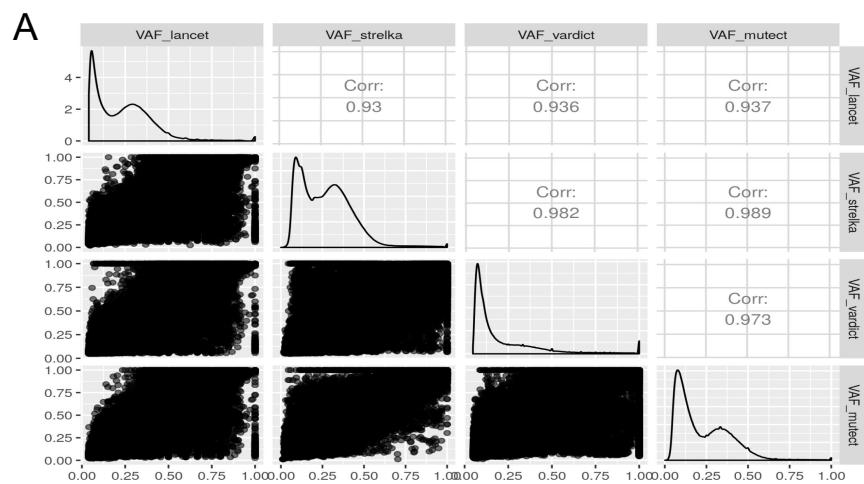
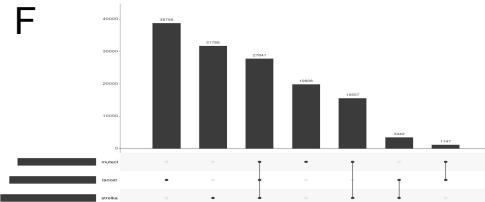
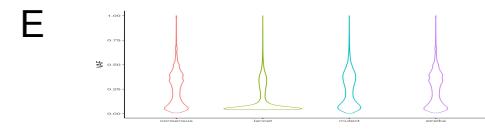
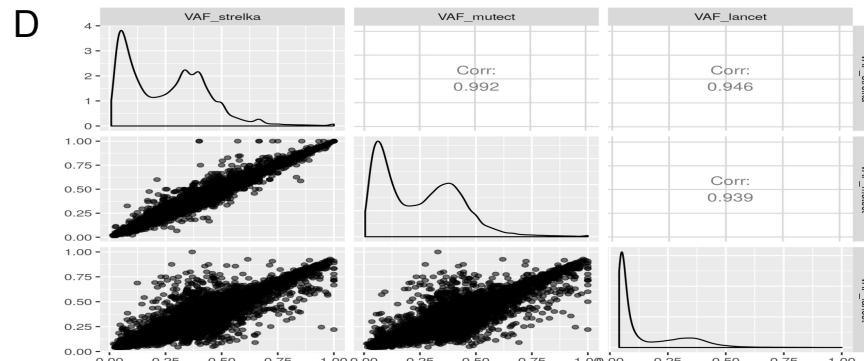


Figure S2: Validation of Consensus SNV calls and Tumor Mutation Burden, Related to Figures 2 and 3.

PBTA



TCGA



G

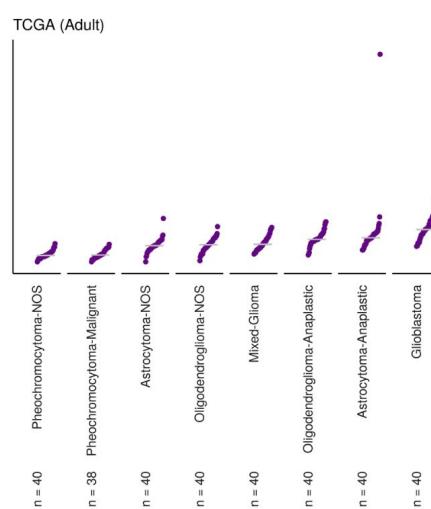
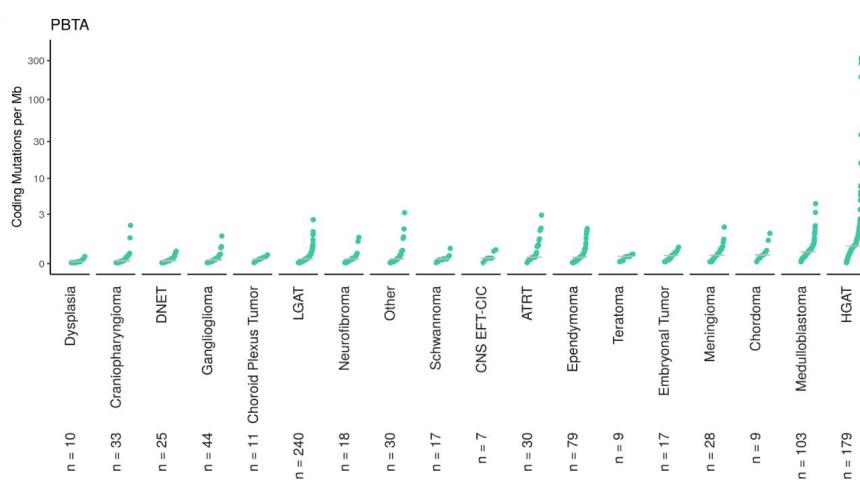


Figure S3: Other CNS Oncoprint, CNV landscape, related to Figs 2 and 3

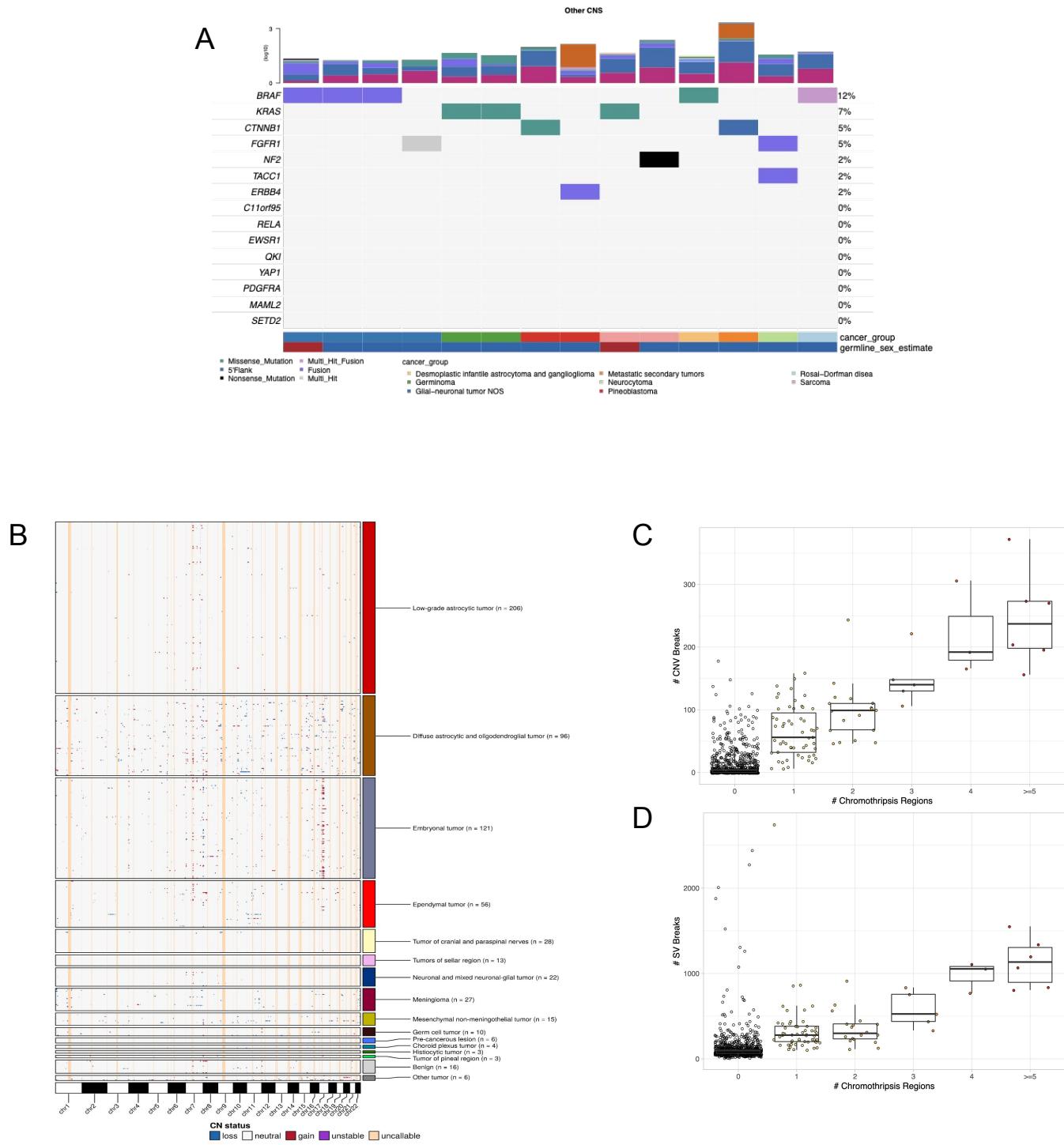
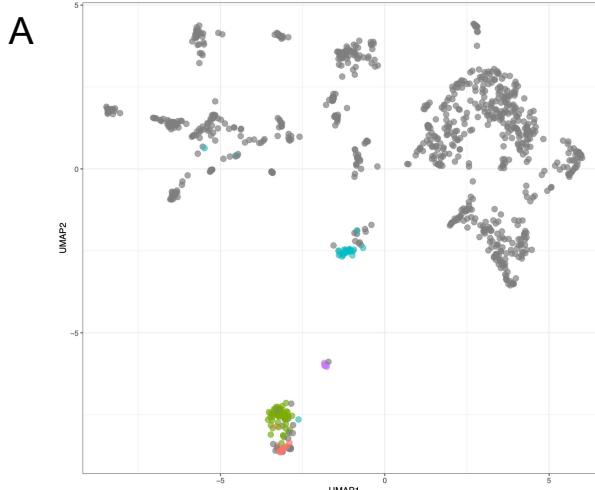
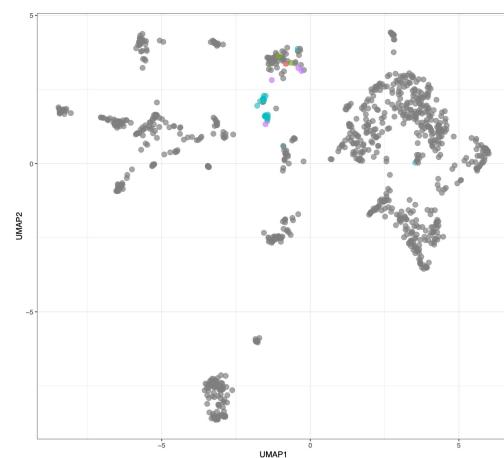


Figure S4: UMAP Subtypes & Immune deconv related to Fig 4

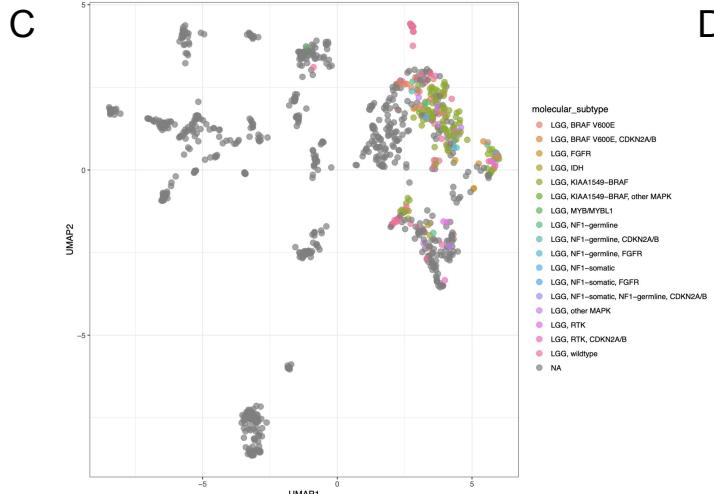
Medulloblastoma



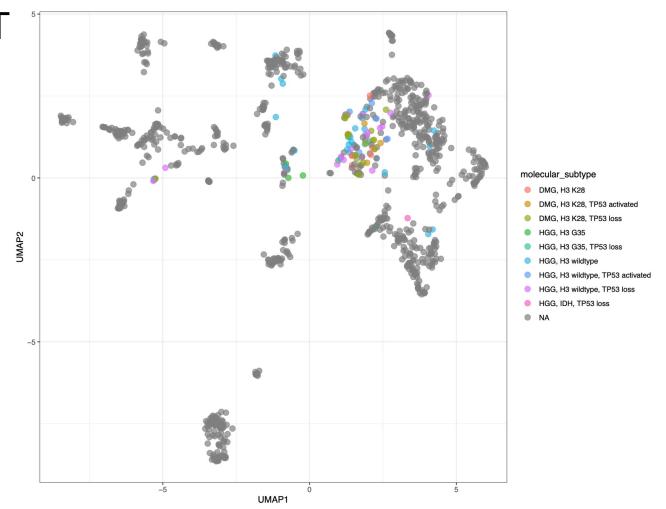
Ependymoma



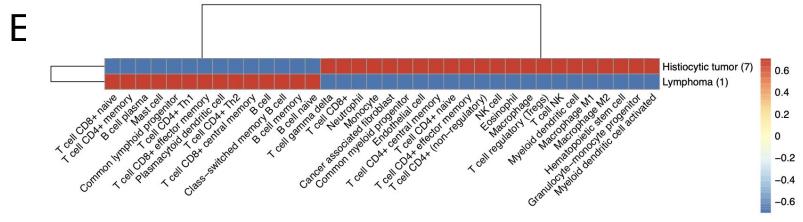
LGAT



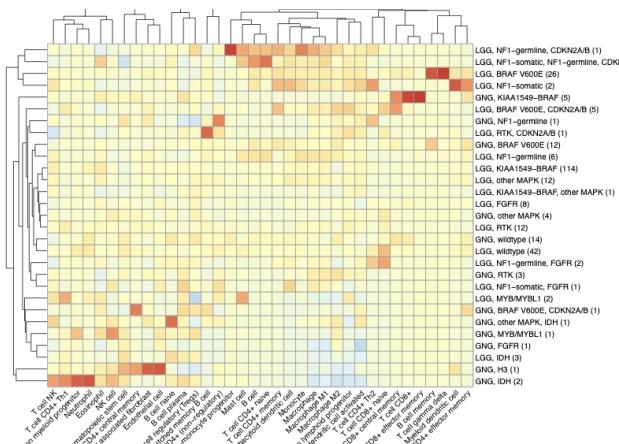
HGAT



Average immune scores normalized by rows Non-Brain Tumors



G



F

Sample	TP53 Status
HGG, IDH, TP53 loss (1)	-
HGG, H3 G35 (4)	-
HGG, H3 G35, TP53 loss (1)	-
HGG, H3 wildtype, TP53 activated (5)	+
DMG, H3 K28, TP53 activated (9)	+
HGG, IDH, TP53 activated (1)	+
DMG, H3 K28, TP53 loss (39)	-
HGG, H3 wildtype (37)	-
DMG, H3 K28 (20)	-

H

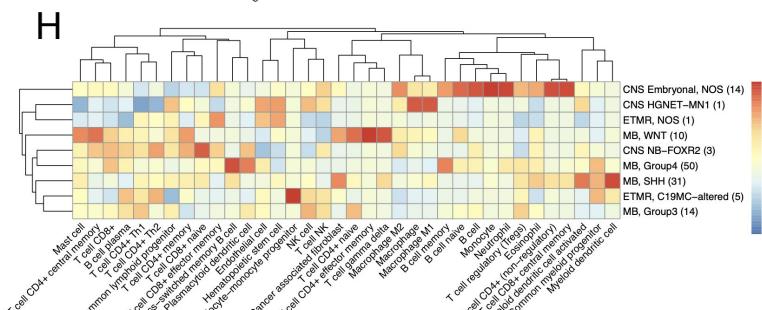


Figure S5: TP53/EXTEND, related to Fig 5

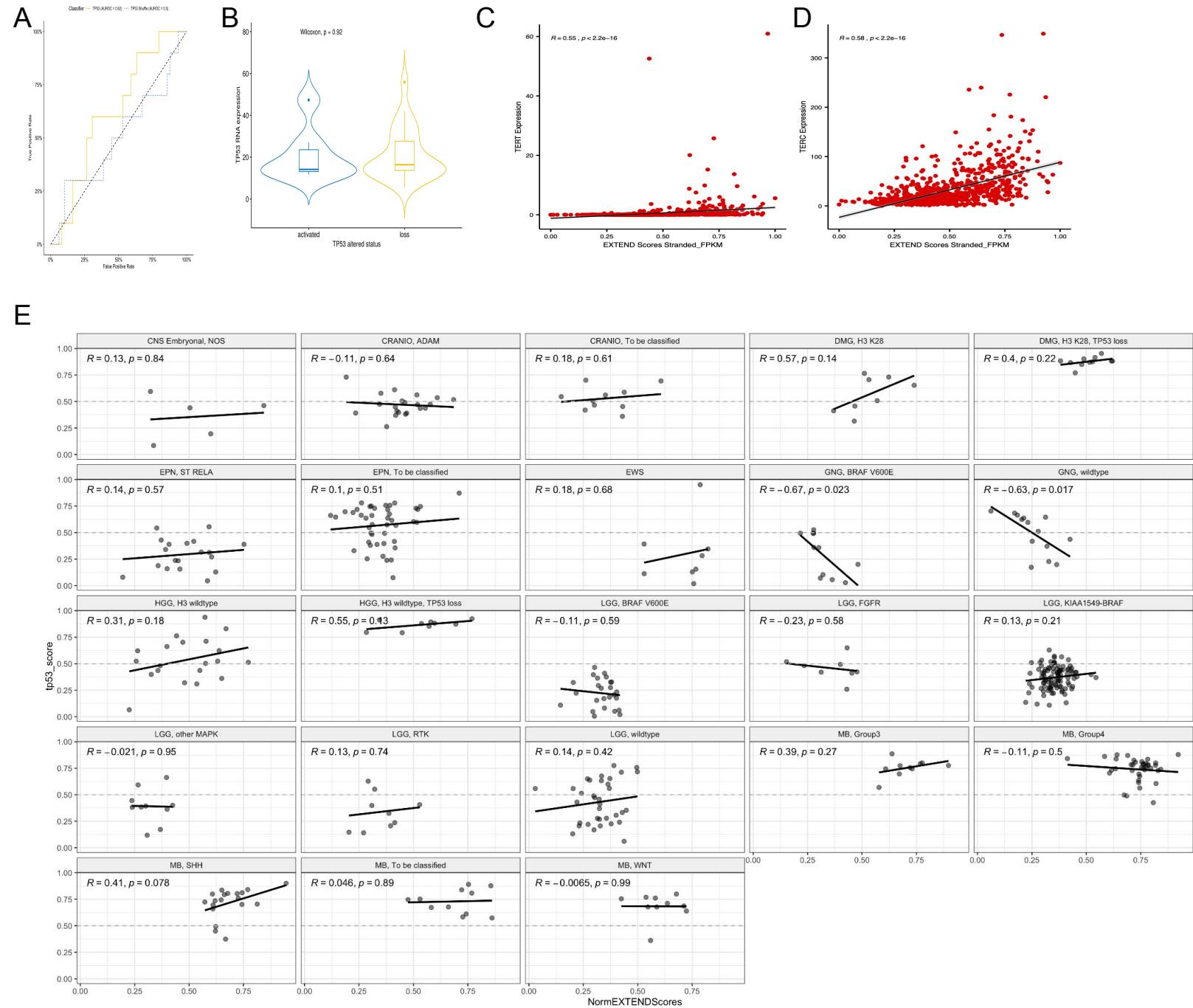
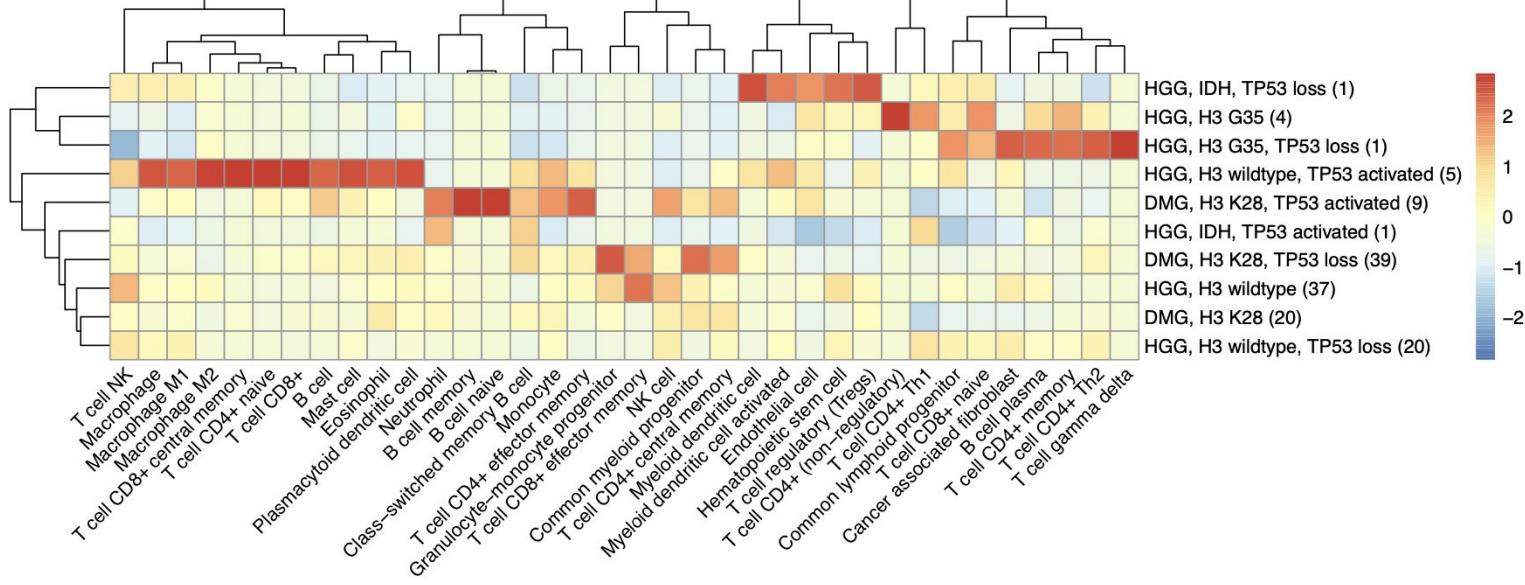
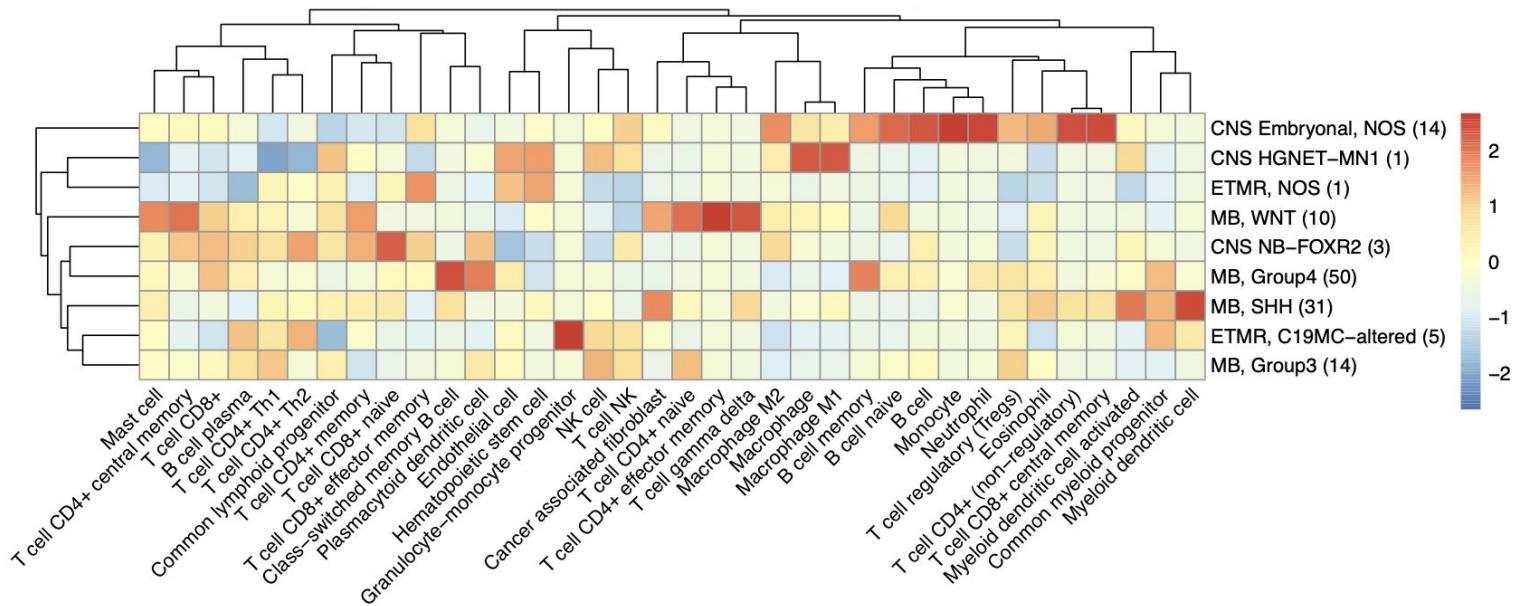


Figure 6: Transcriptomic Overview 3 (Immune)

A



B



Tables

1. Molecular subtypes determined for this project

Supplementary tables

Supp Table 1: Histology file v21

Supp Table 2: DNA table: individual sample TMB, Mut sigs (COSMIC, Alex, CNS), breakpoint density, chromothripsis regions per sample (OpenPBTA-analysis/analyses/chromothripsis/results/chromothripsis_summary_per_sample.txt)

Supp Table 3: RNA table: individual sample TP53 scores, EXTEND scores