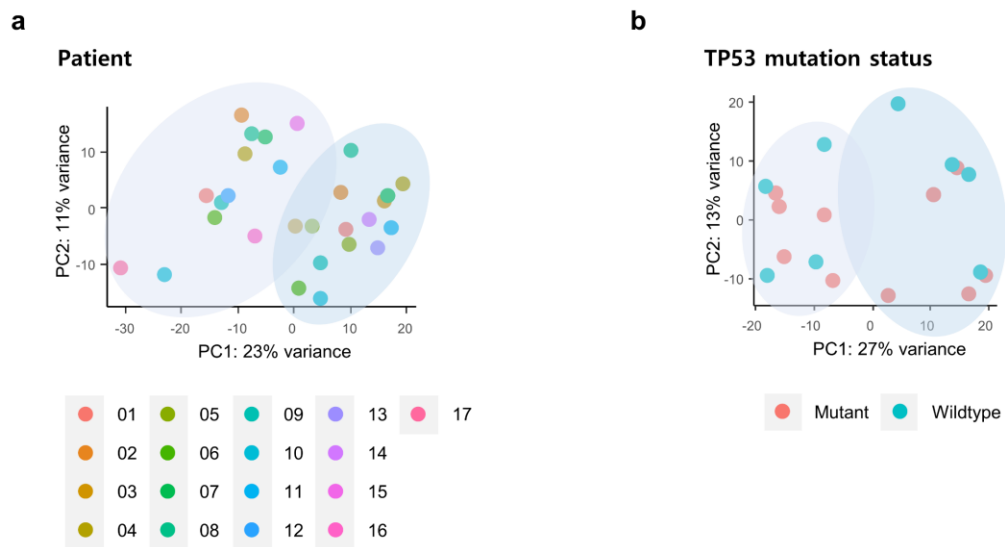


Supplementary Figure 1

PCA plots of correlations within NanoString samples. **a**, PCA plot for 28 samples by individual patient. **b**, PCA plot for the 18 adenocarcinoma cases according to TP53 mutation status.

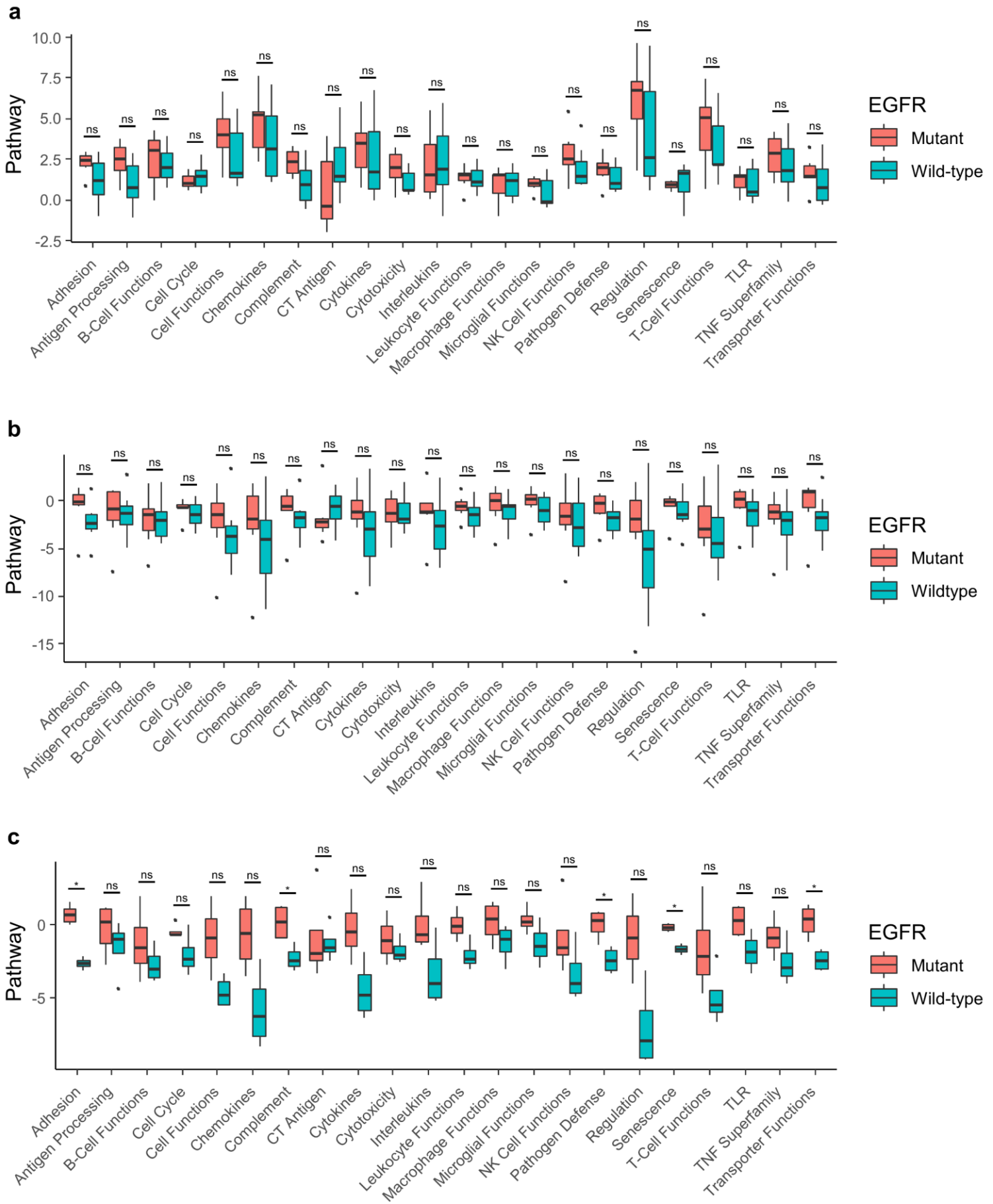
Supplementary Figure 1



Supplementary Figure 2

Immunophenotypic differences in the lung and brain according to *EGFR* mutation status. **a**, Immune scores in *EGFR* wild-type versus *EGFR* mutant primary lung samples (Mann–Whitney U-test). **b**, Immune scores in *EGFR* wild-type versus *EGFR* mutant LCBM cases (Mann–Whitney U-test). **c**, Immune scores in *EGFR* wild-type versus *EGFR* mutant LCBM adenocarcinoma cases with no previous tyrosine kinase inhibitor treatment (Mann–Whitney U-test). CT antigen, cancer/testis antigen; TLR, Toll-like receptor; ns, not significant.

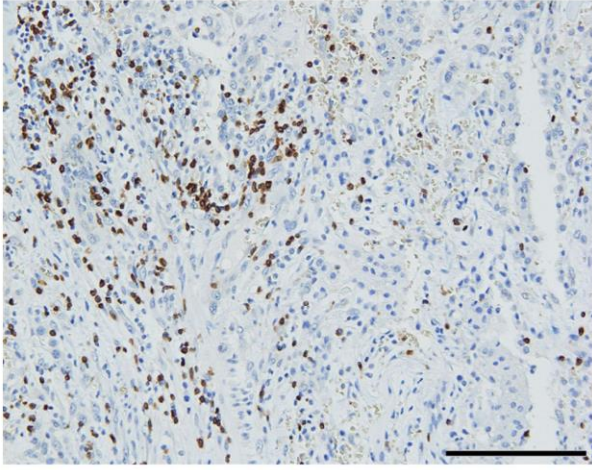
Supplementary Figure 2



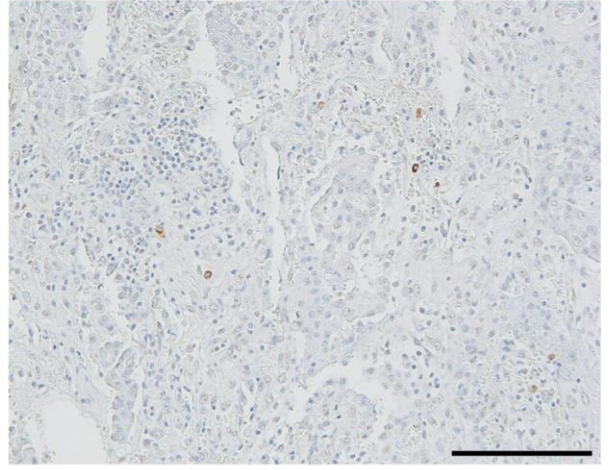
Supplementary Figure 3

Comparative immunohistochemical images of CD3, NCR1, iNOS, and CD163 in representative primary lung and brain metastatic samples. Scale bar, 100 μ m.

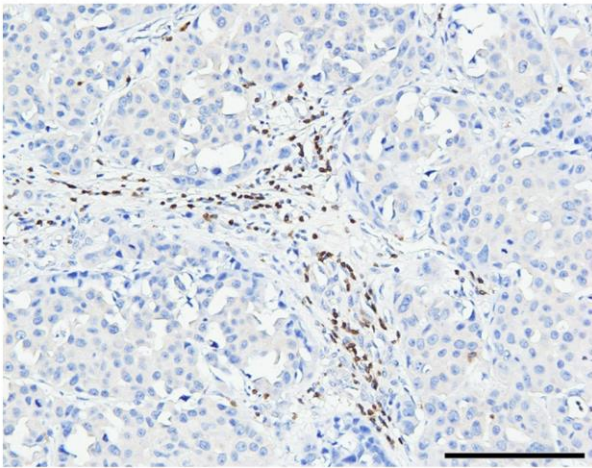
Supplementary Figure 3



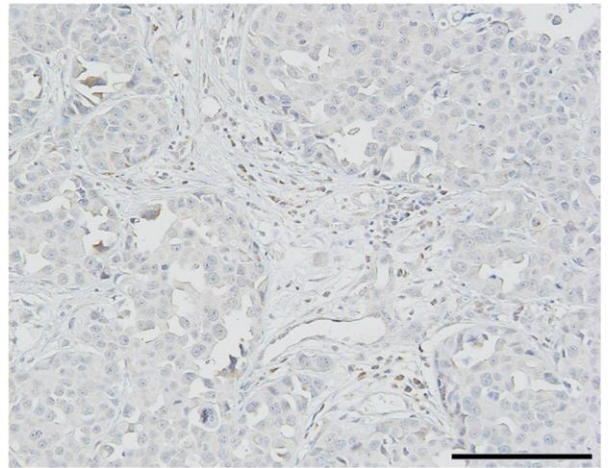
CD3 lung



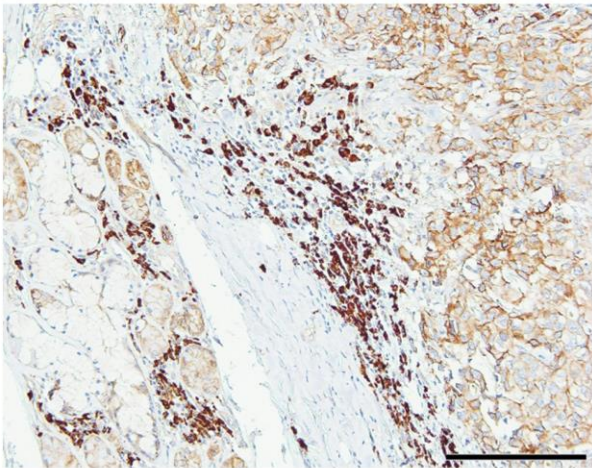
NCR1 lung



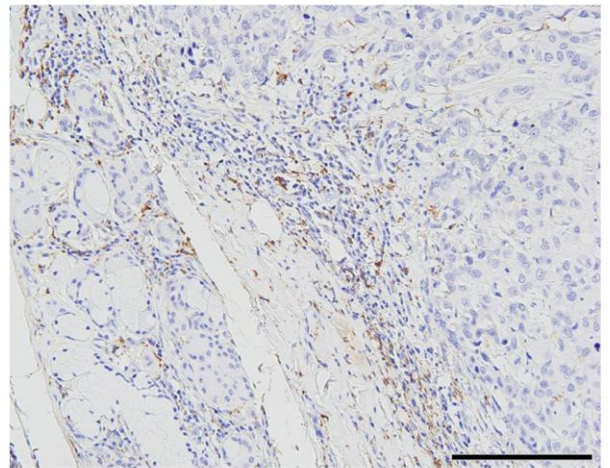
CD3 brain



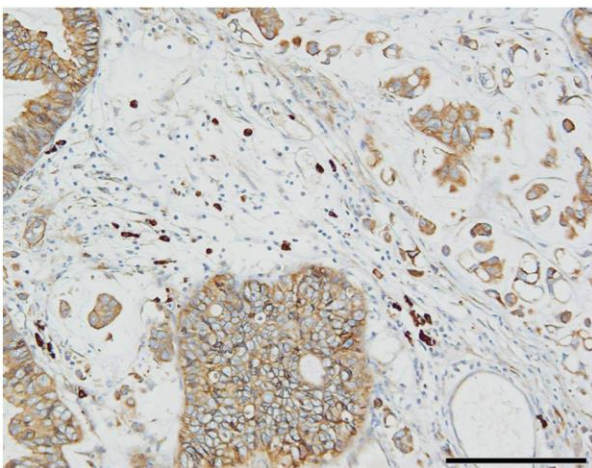
NCR1 brain



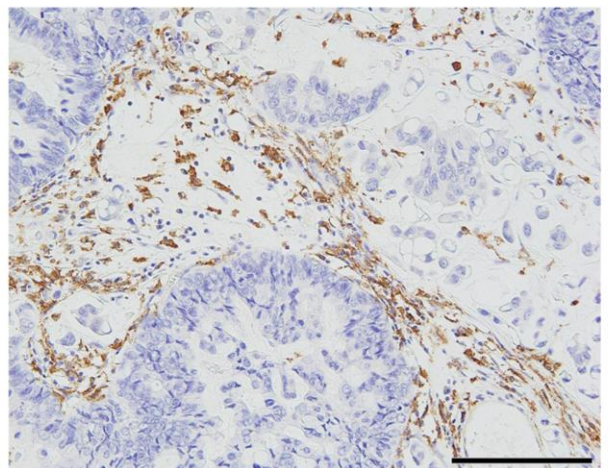
iNOS lung



CD163 lung



iNOS brain



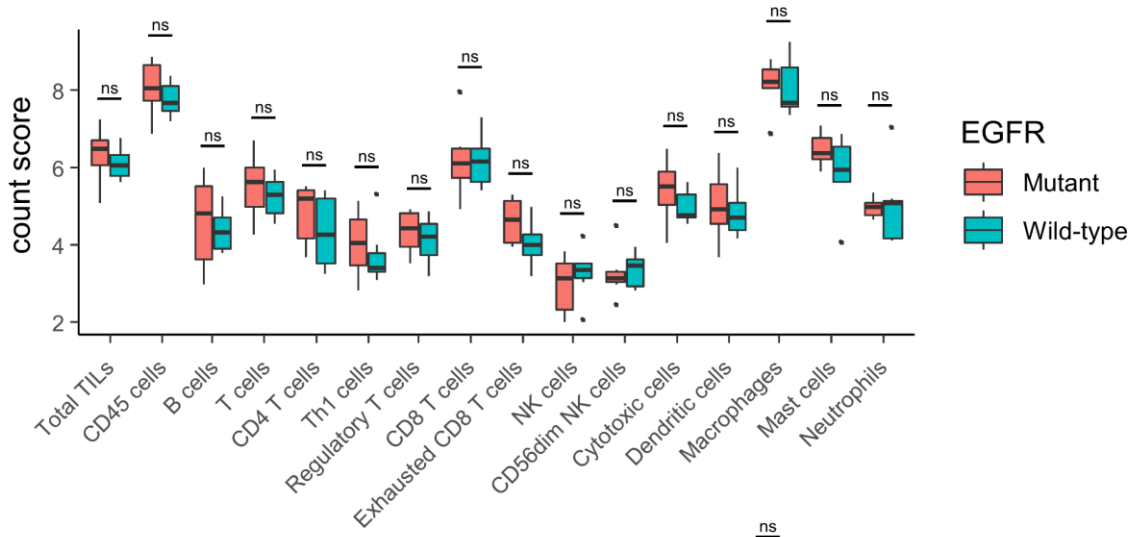
CD163 brain

Supplementary Figure 4

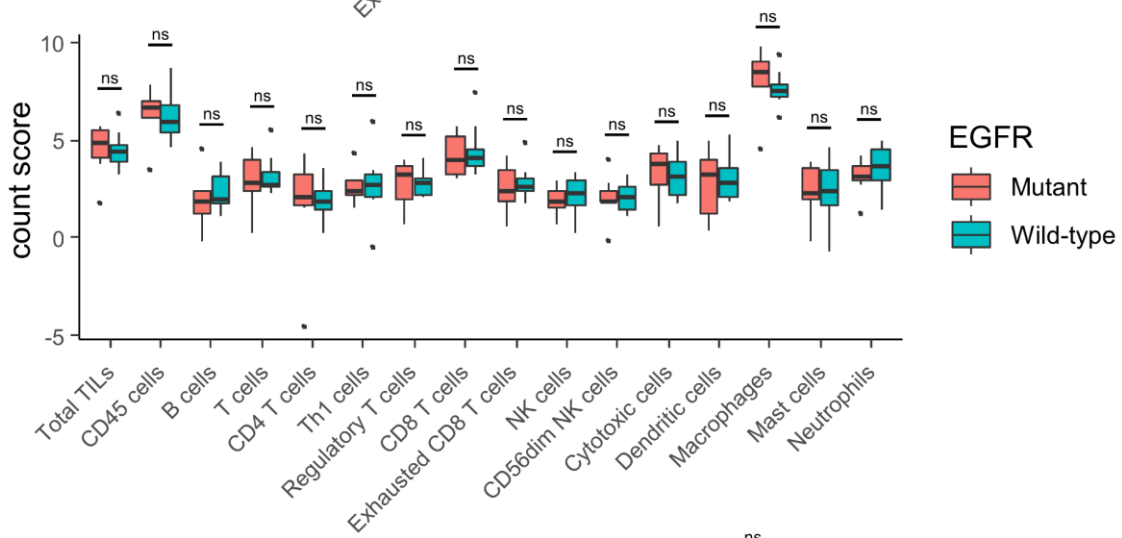
Immune cell infiltration according to *EGFR* mutation status. a-b, Immune cell profiles of lung (**a**) and brain (**b**) samples analyzed by the NanoString method (Mann–Whitney U-test). **c-d,** Relative abundance of immune cells per total tumor-infiltrating leukocytes in lung (**c**) and brain (**d**) samples by the NanoString method (Mann–Whitney U-test). ns, not significant.

Supplementary Figure 4

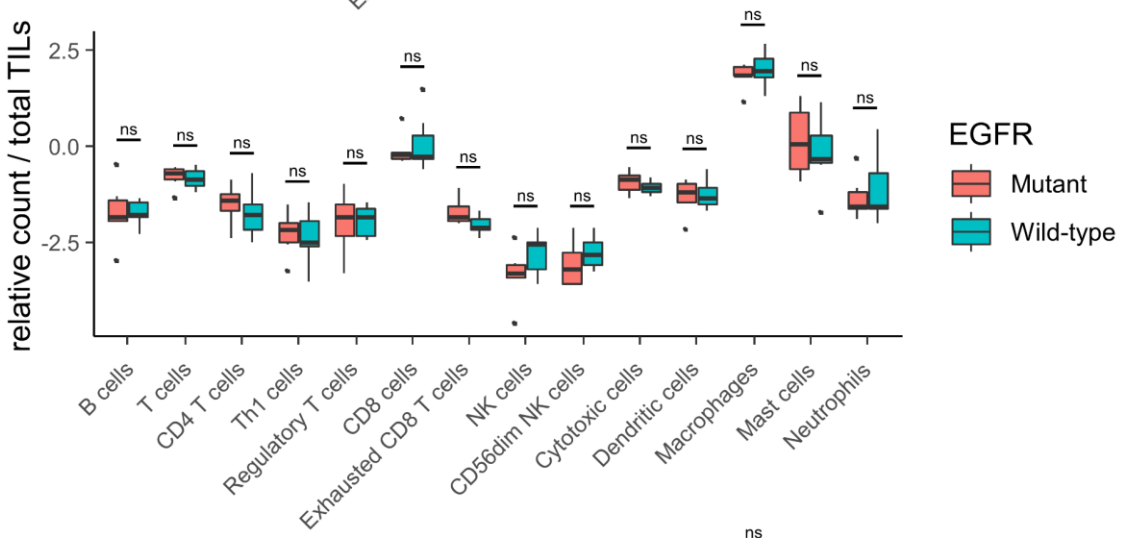
a



b



c



d

