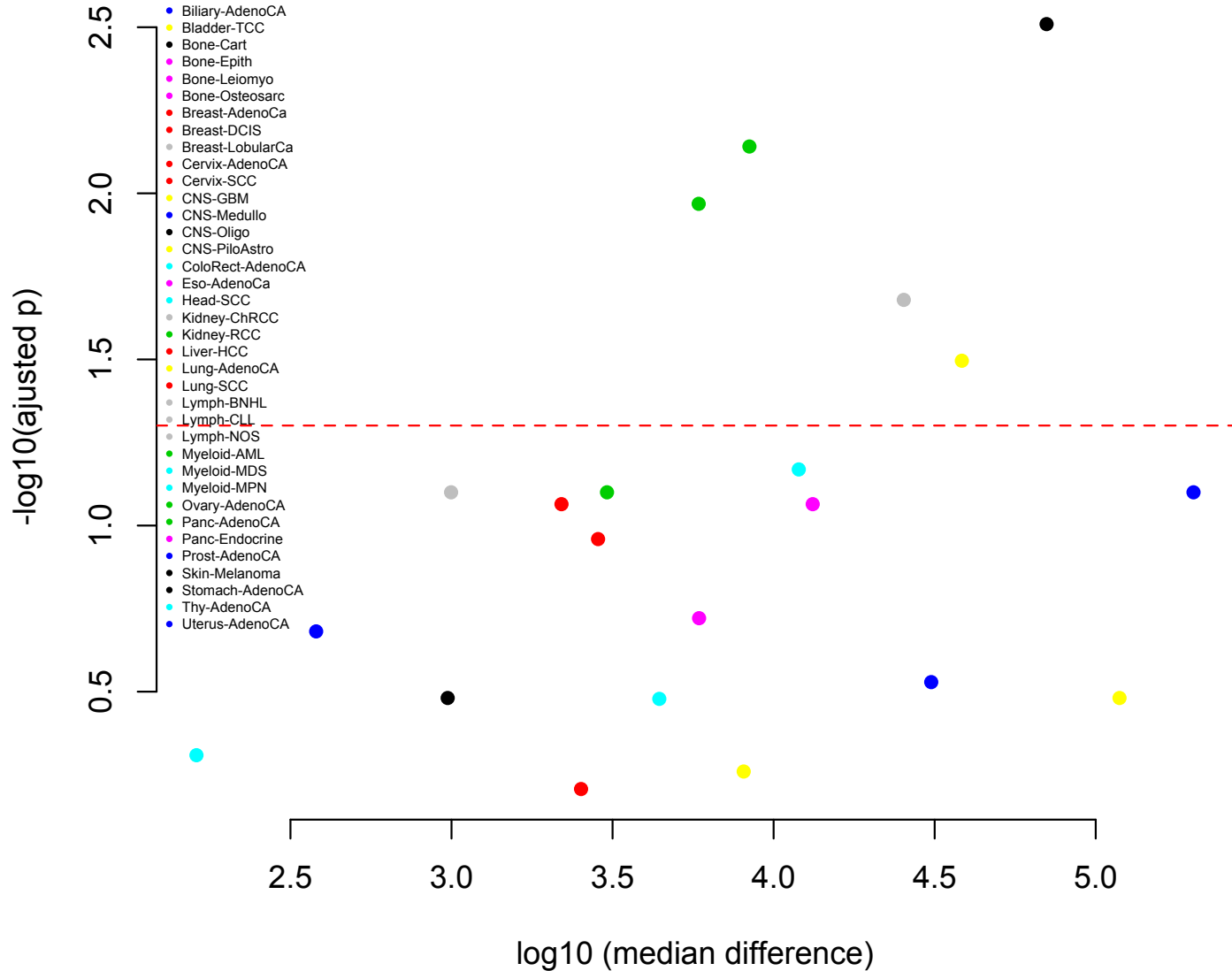


Factors contributing to high Fscore

- MSS/MS
 - Los of MMR (yeah yeah...autism)
- How about DNA Repair genes in general

Positive control

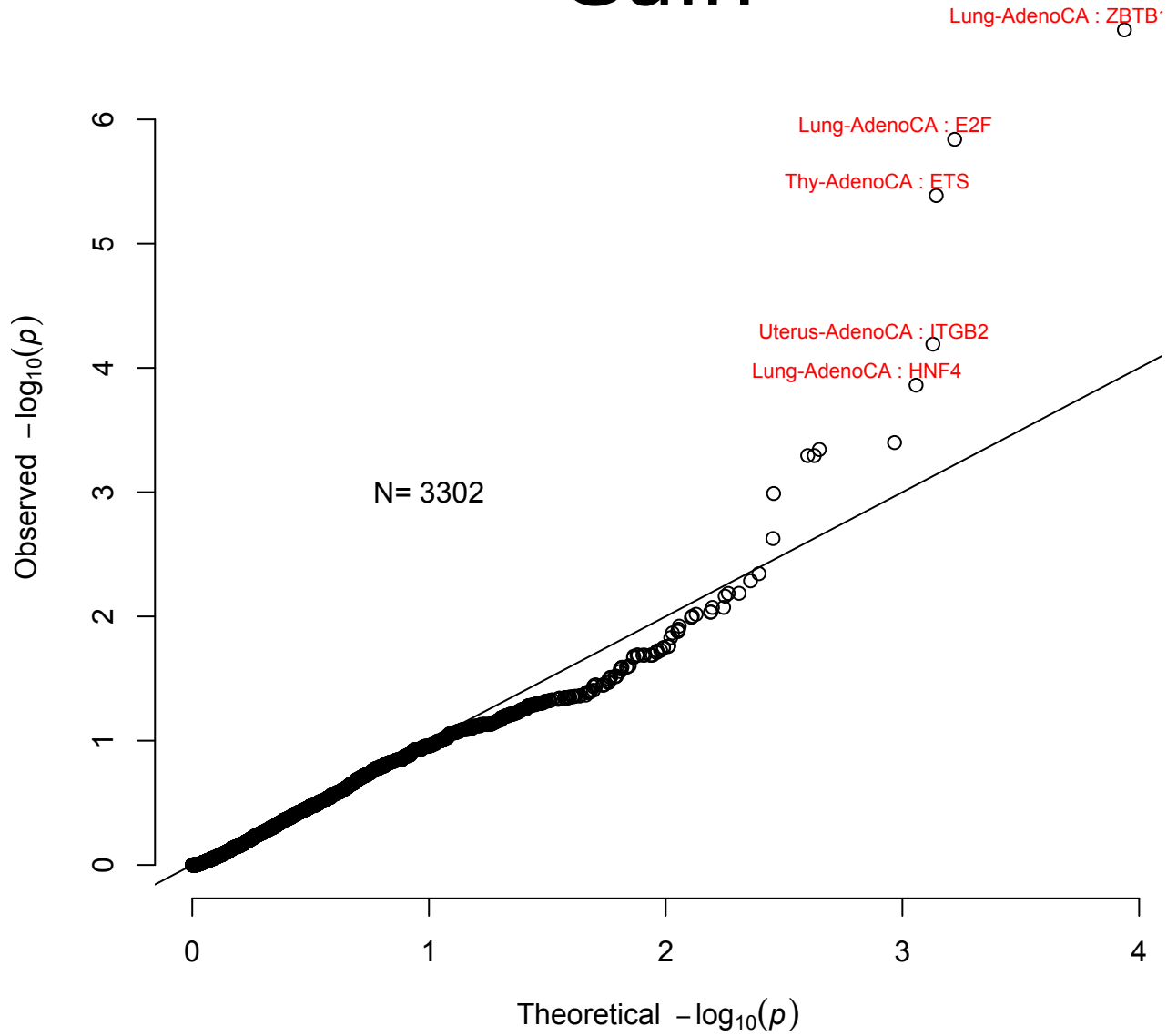


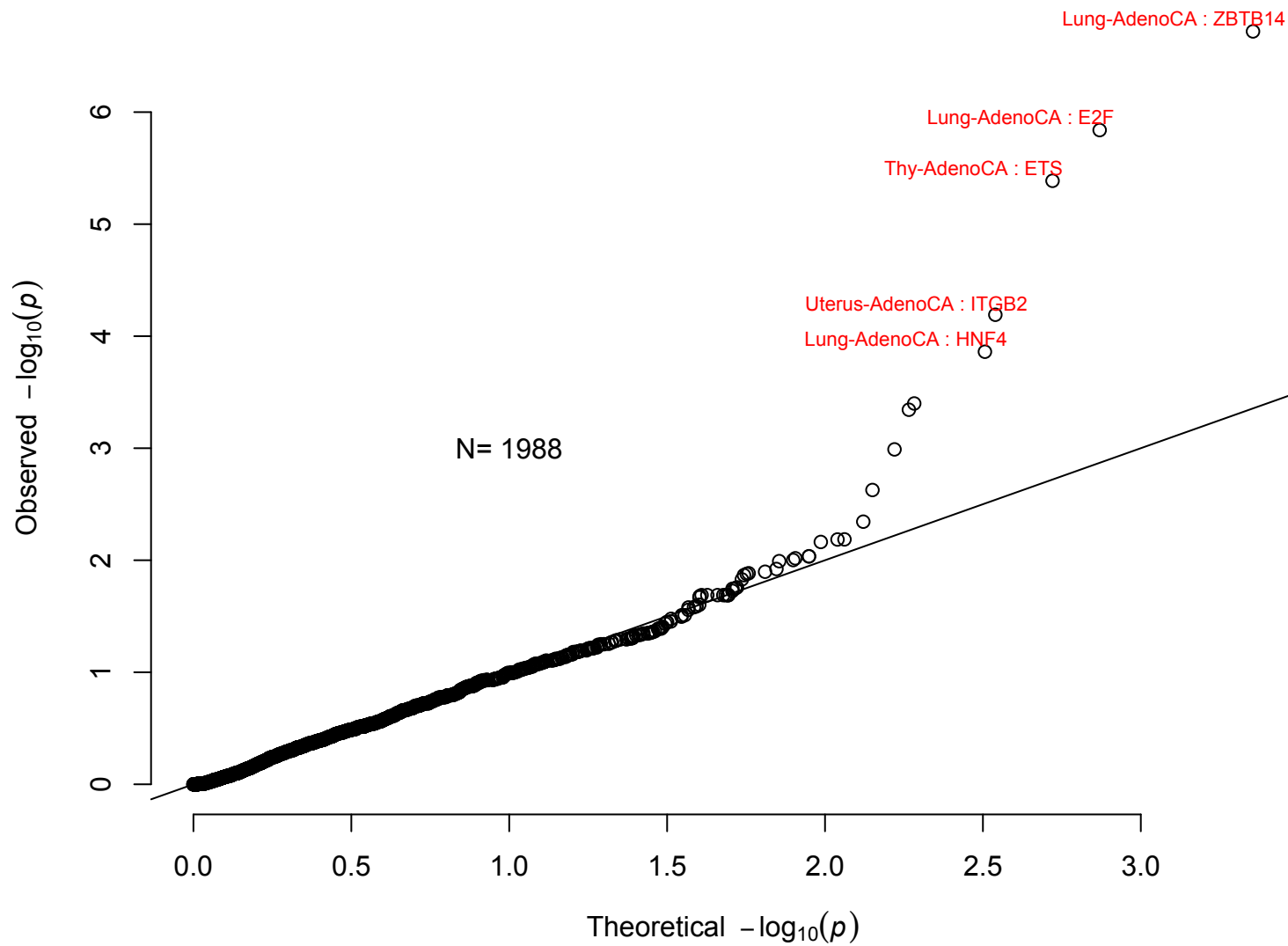
Motif break/grain

- Motif/TF based expression test
- Combine all downstream genes in each cancer type
 - Avoid cancer type as a confounding factor
 - Fisher methods

Key issue: both gain/breaks lead to exp. increase

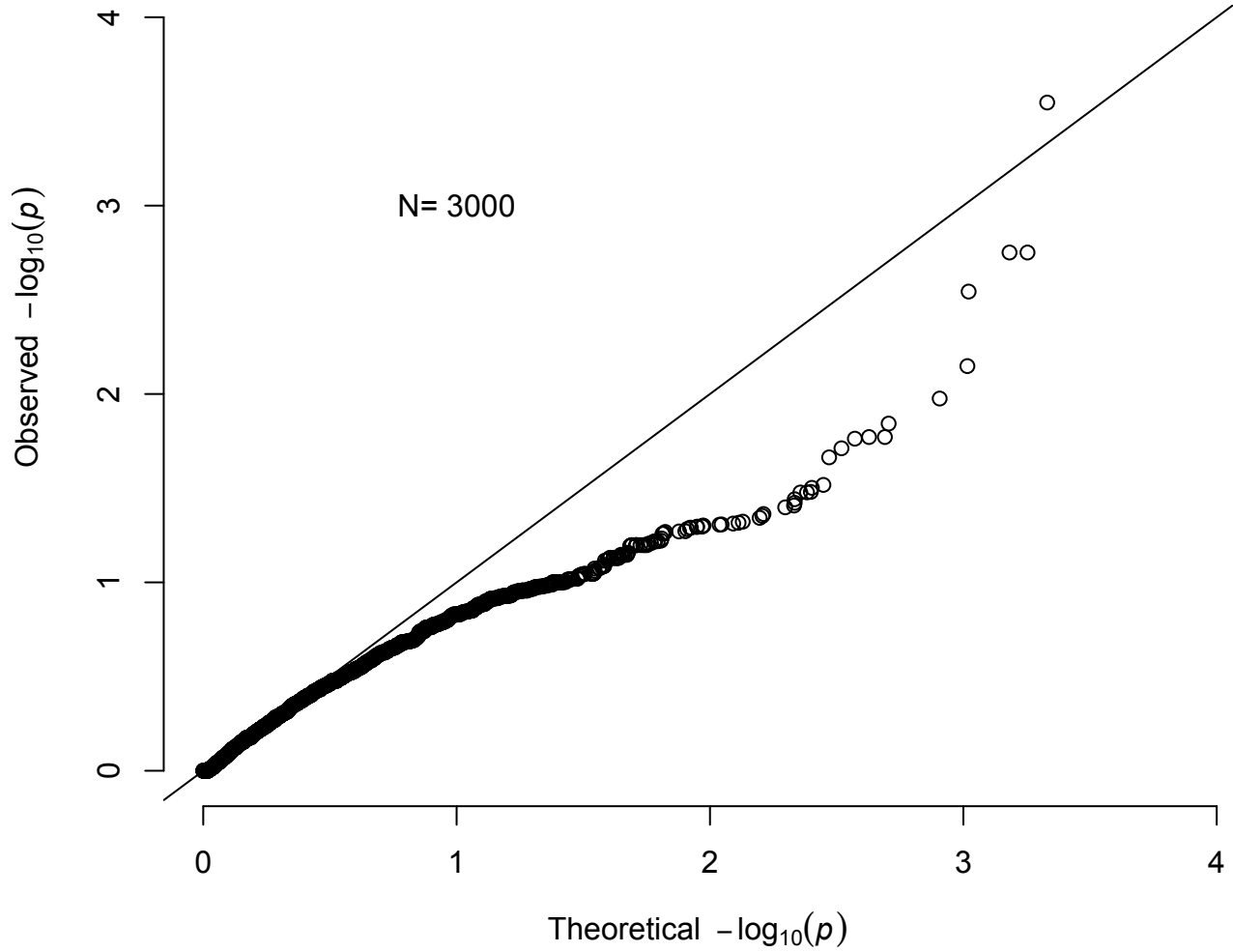
Gain



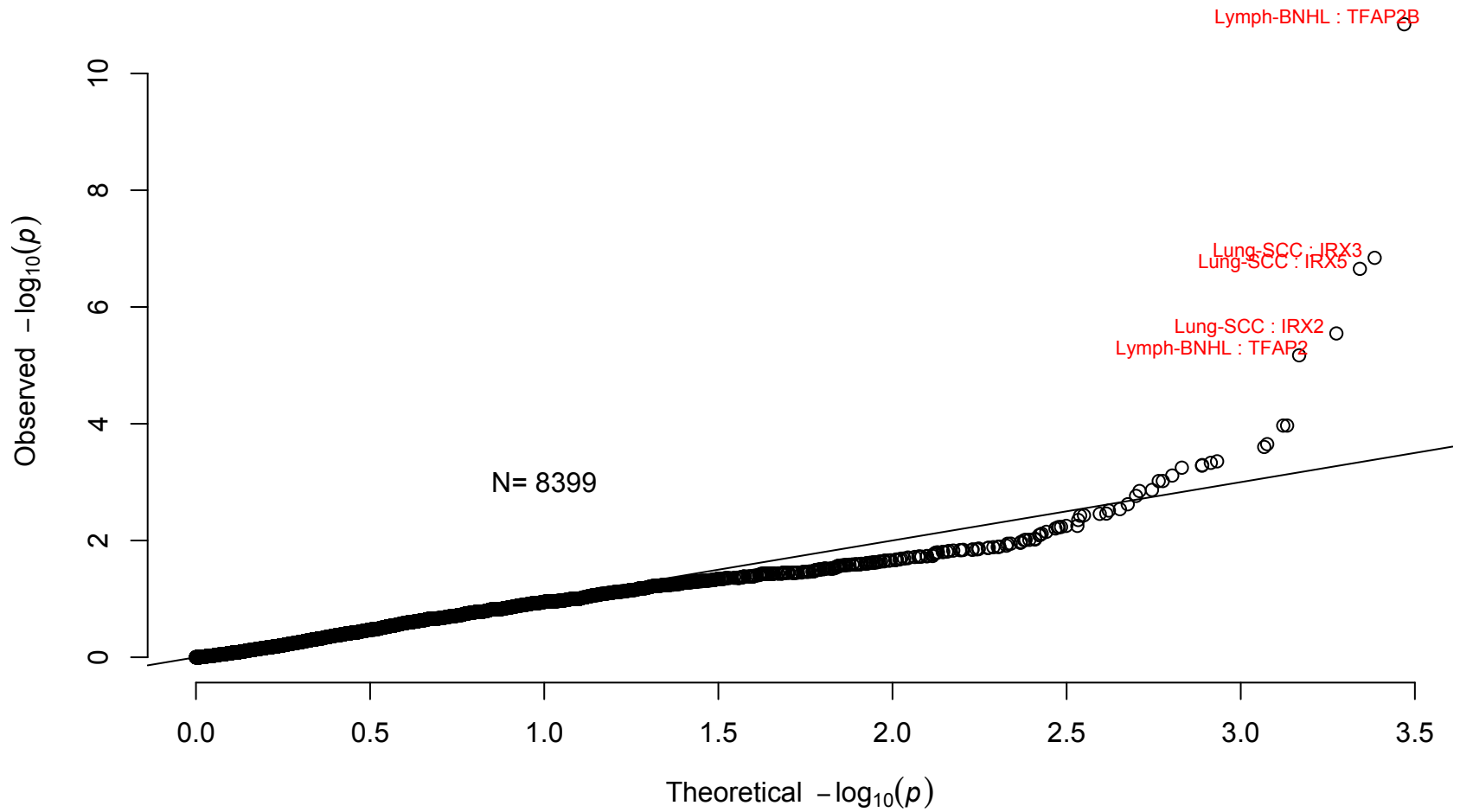


Two-sided

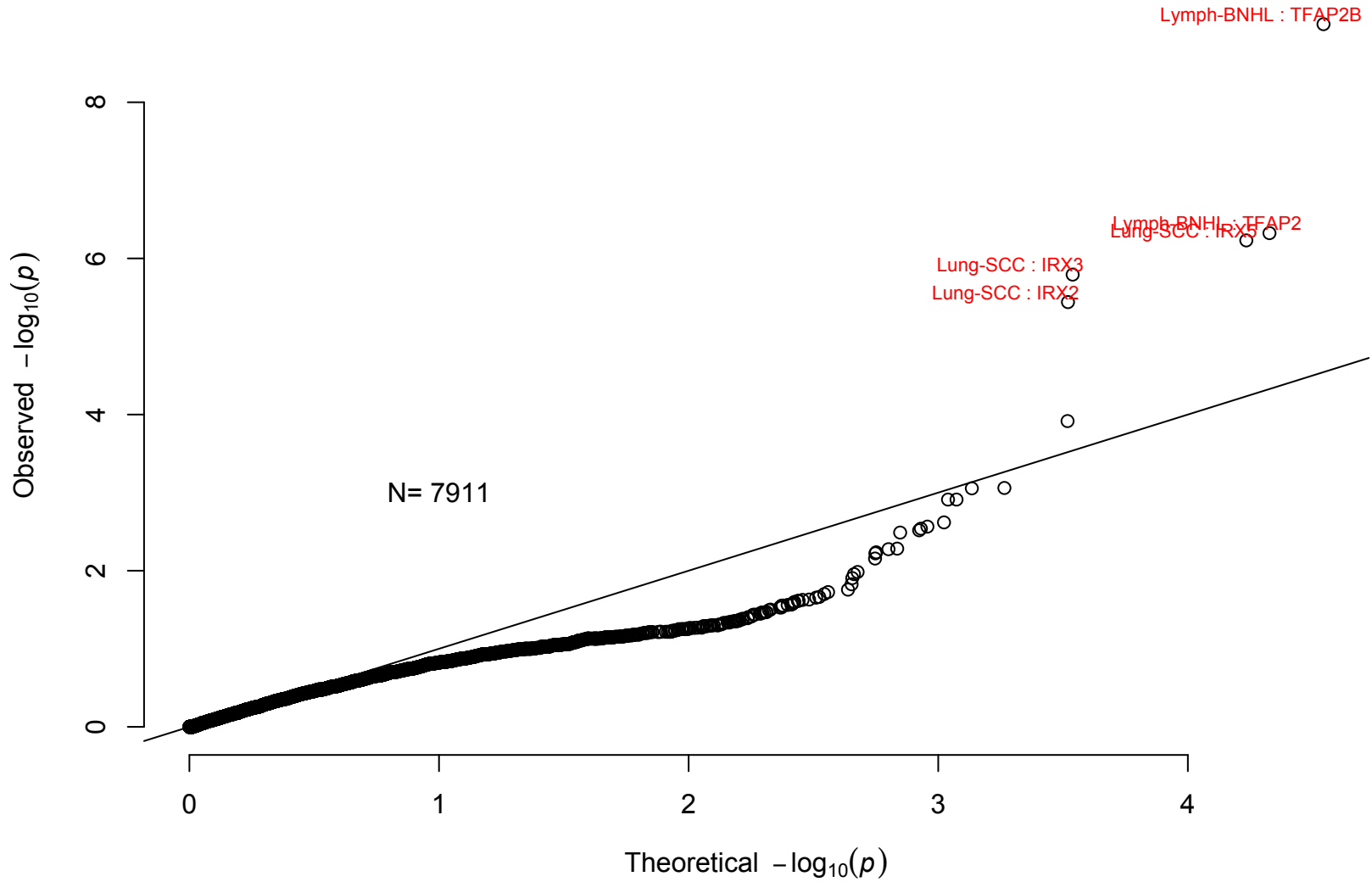
Thy-AdenoCA : ETS



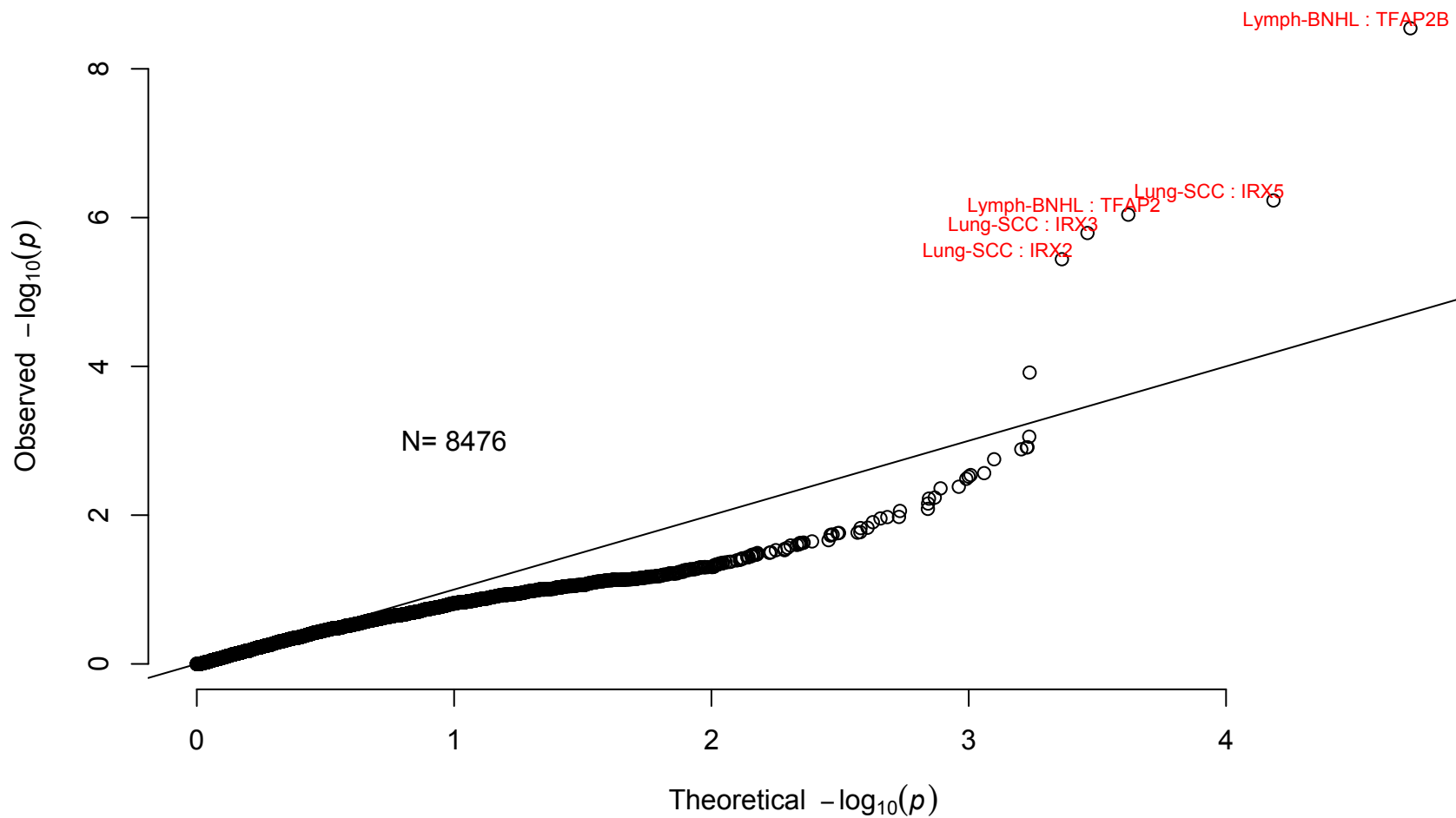
One-sided(break)

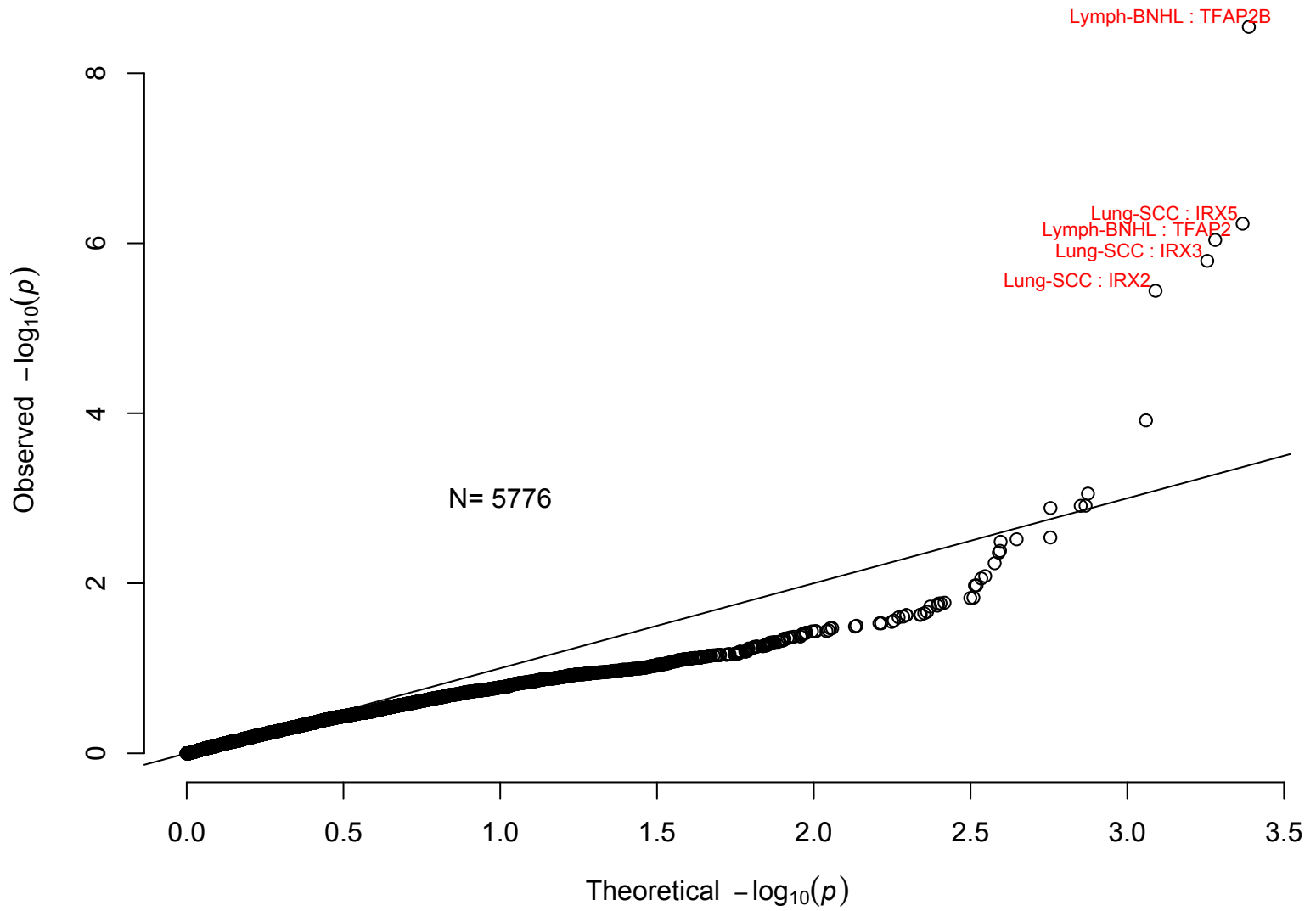


Two-sided (break)

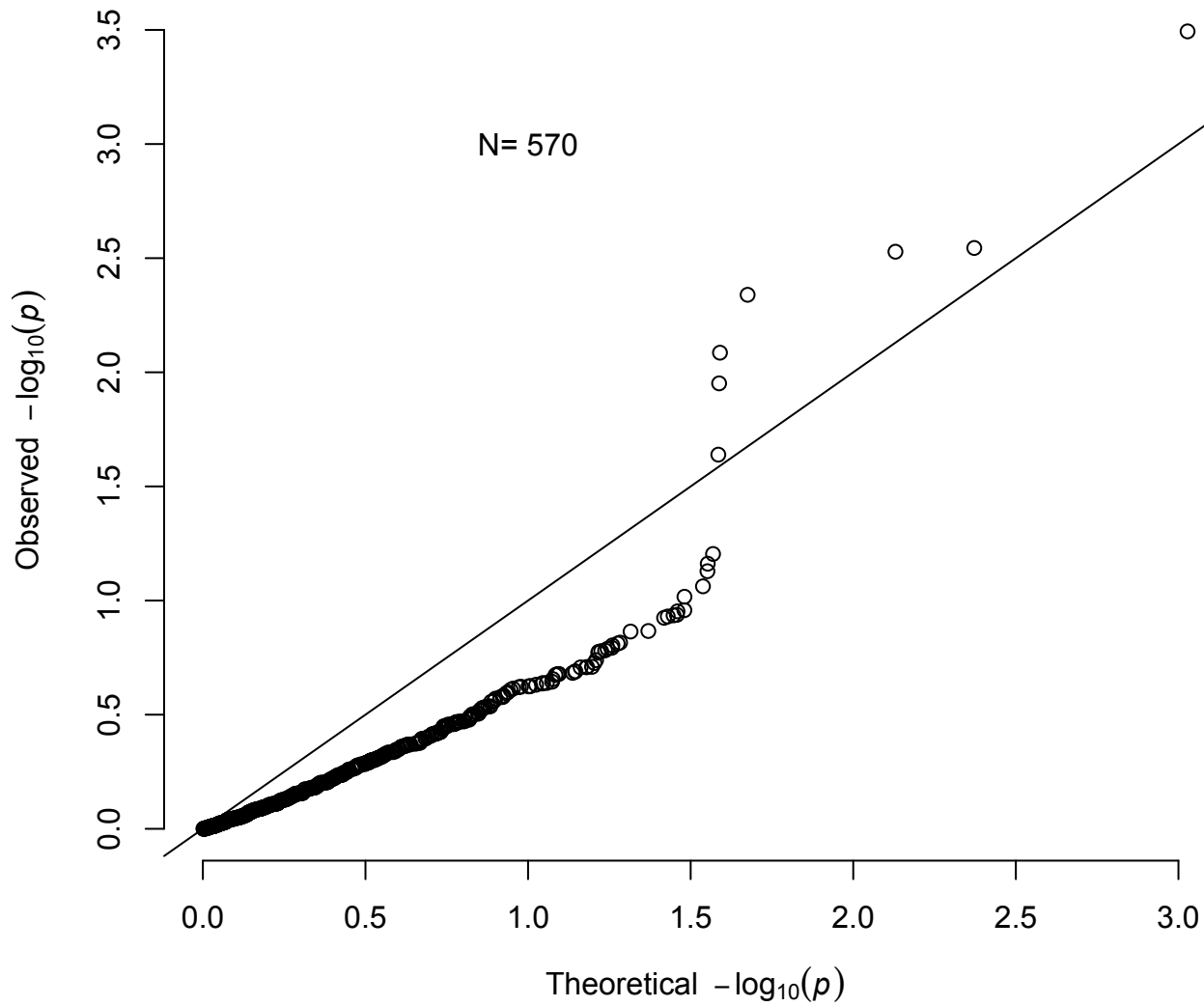


ALL(two-sided)





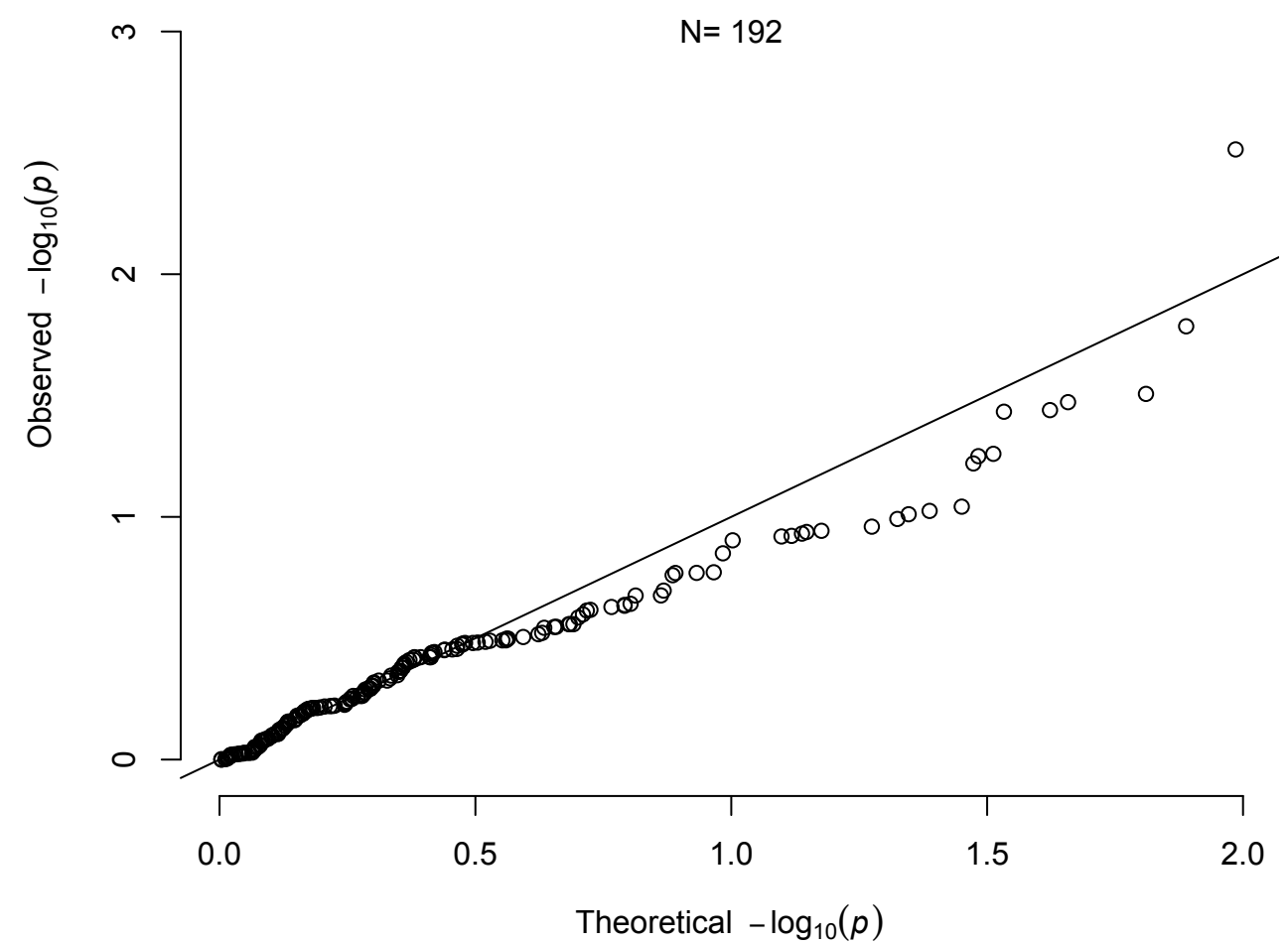
Combined p value by motifs

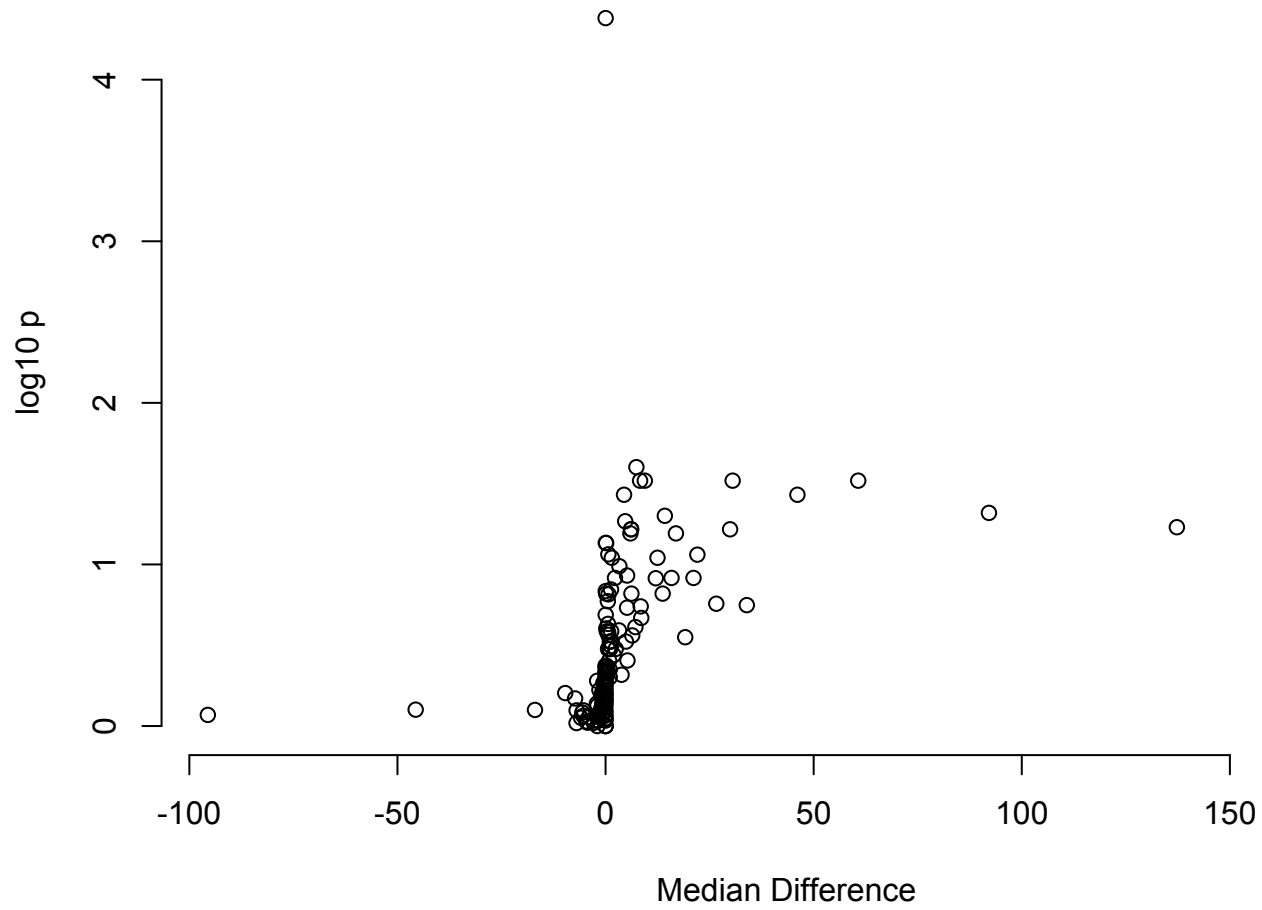


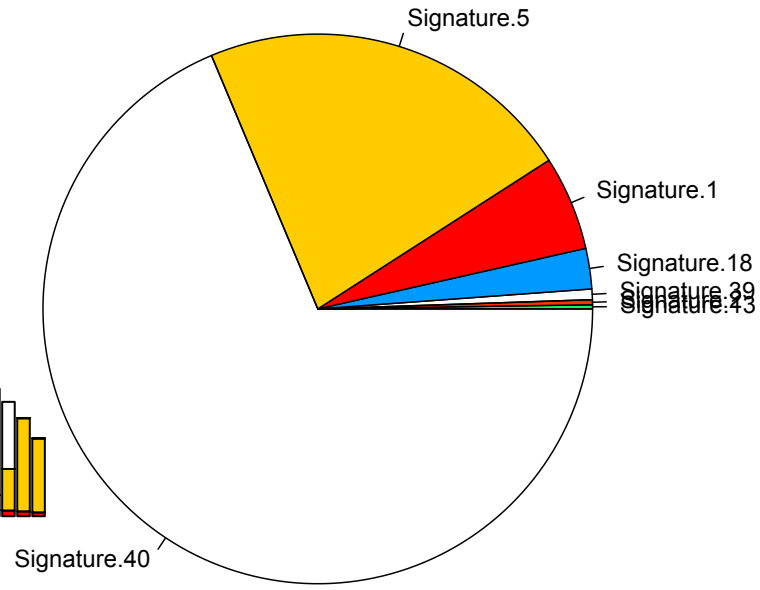
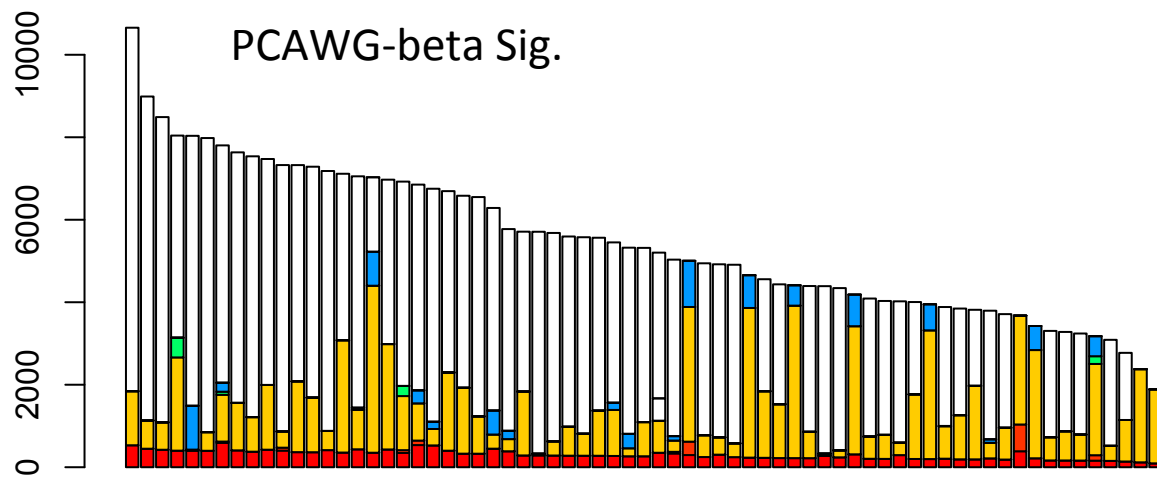
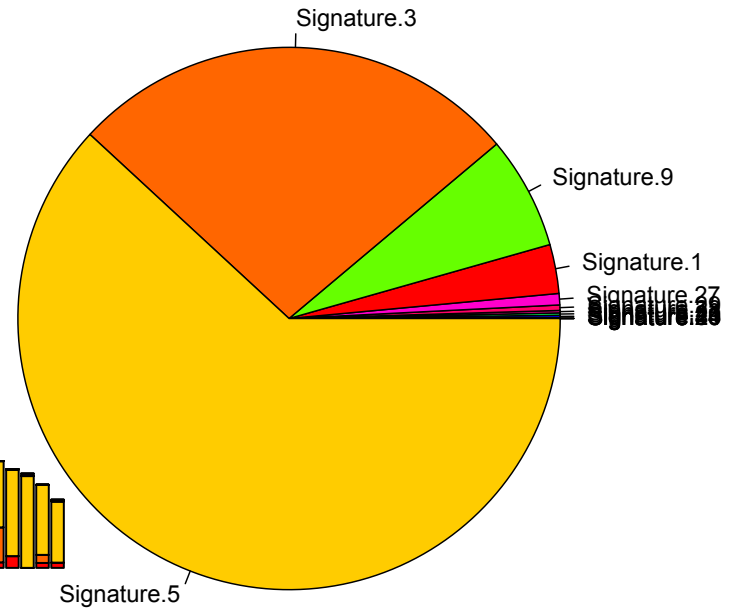
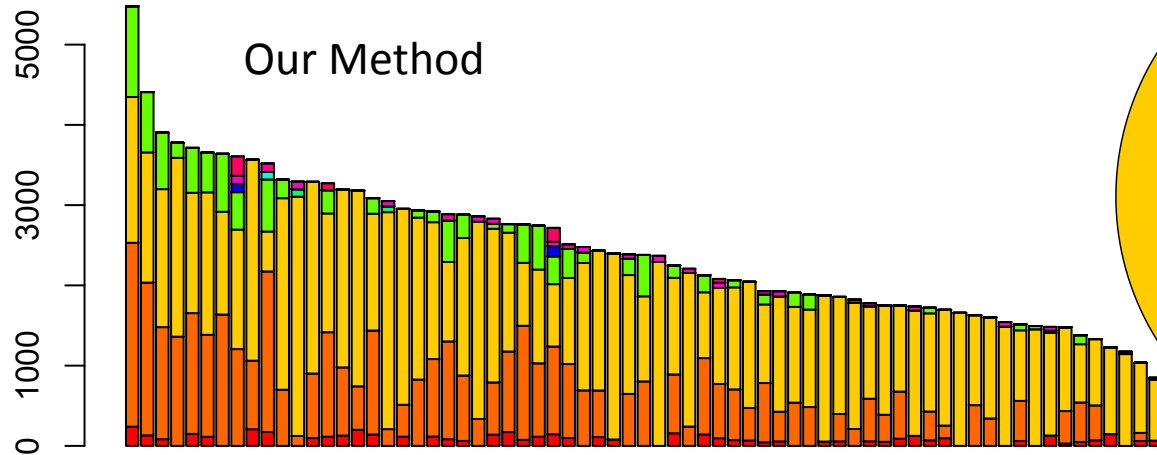
| | | | |
|-----------------|--------|----|--------------|
| Uterus-AdenoCA | ZBTB14 | 3 | 2.339655e-01 |
| Skin-Melanoma | ZBTB14 | 4 | 9.854741e-01 |
| Panc-AdenoCA | ZBTB14 | 3 | 6.833160e-01 |
| Lung-SCC | ZBTB14 | 4 | 2.392851e-01 |
| Breast-AdenoCa | ZBTB14 | 7 | 8.999876e-02 |
| Stomach-AdenoCA | ZBTB14 | 6 | 1.211212e-01 |
| Ovary-AdenoCA | ZBTB14 | 4 | 8.216280e-01 |
| Liver-HCC | ZBTB14 | 4 | 4.334379e-01 |
| Eso-AdenoCa | ZBTB14 | 4 | 3.552472e-01 |
| Lung-AdenoCA | ZBTB14 | 30 | 1.903052e-07 |

Combined p value by motifs

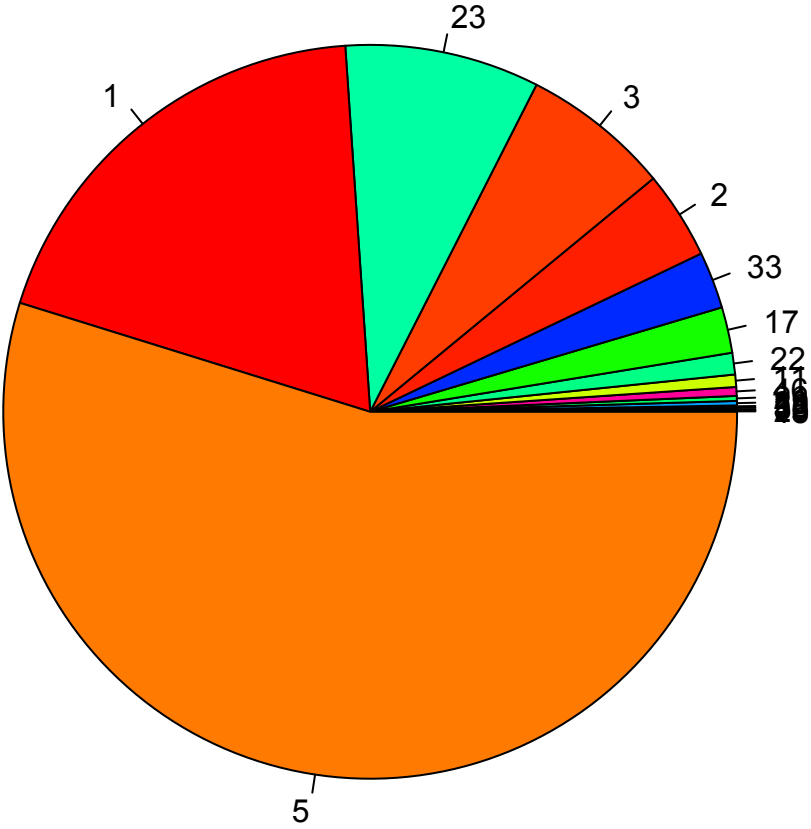
ZBTB14 ○
adjusted p < 0.034



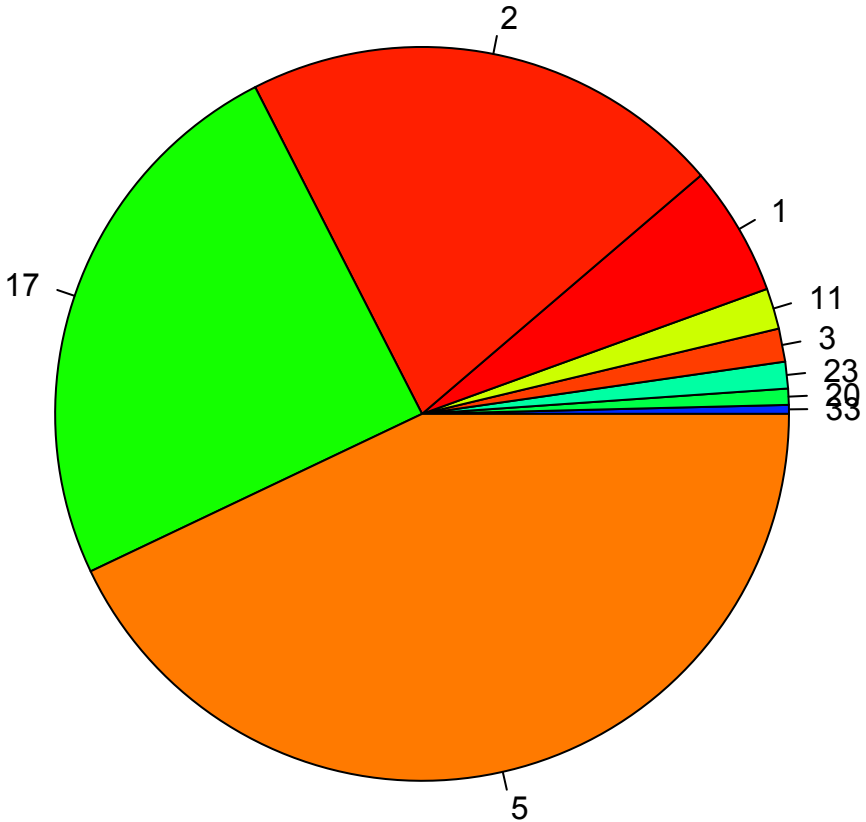




Bladder

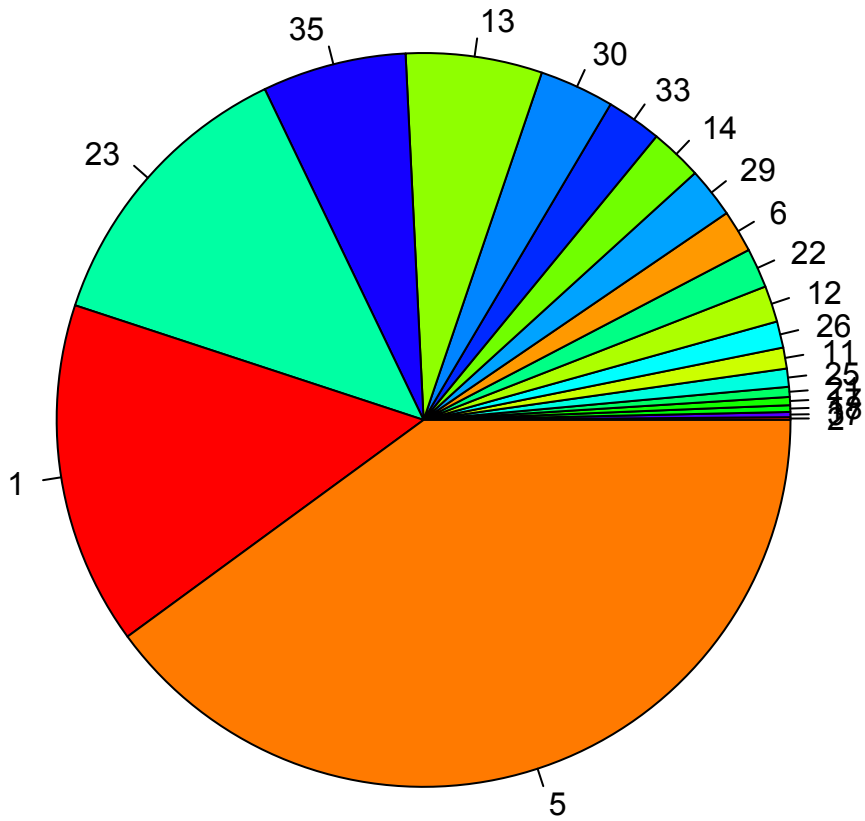


Neutral

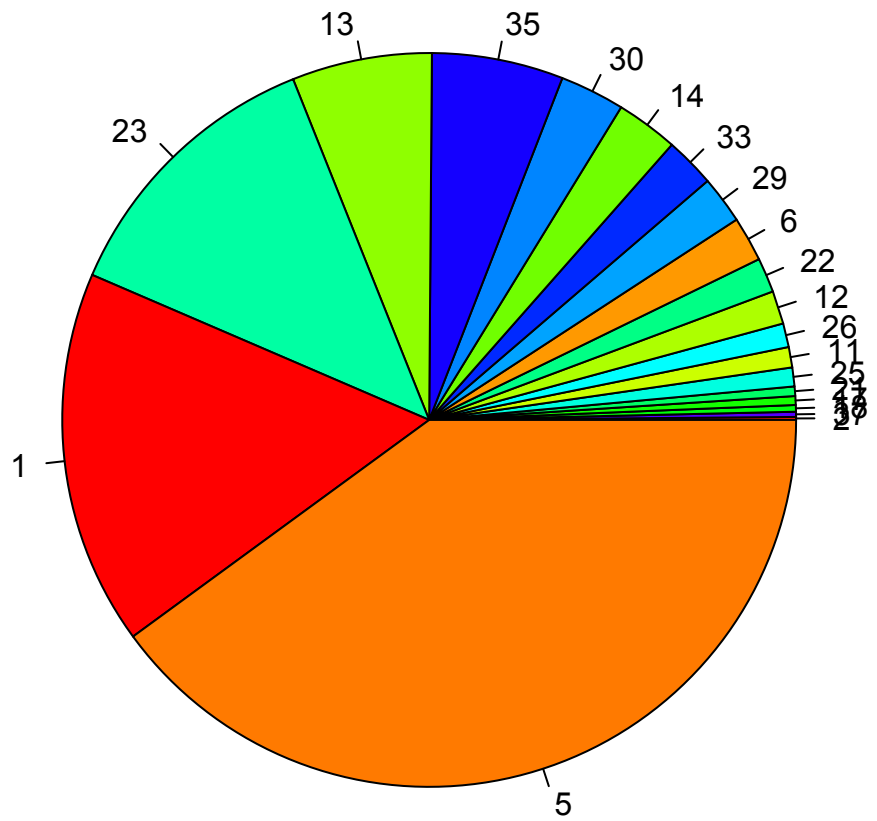


Impactful

ColoRect AdenoCA



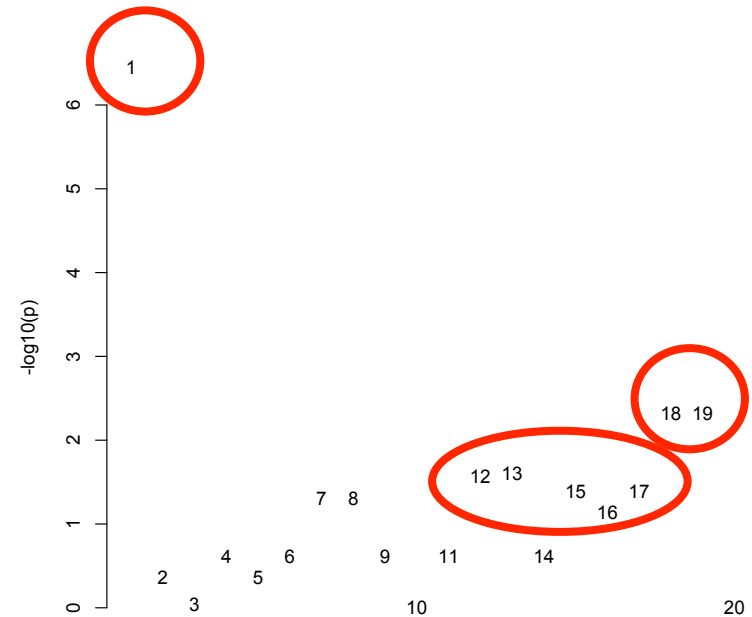
Neutral



Impactful

Paired-test

- But we have much less nominal versus neutral
 - Adjusted p-value
 - Plot ready by tmr



- For TFM changes...signature heatmap
 - contradicting with EK?