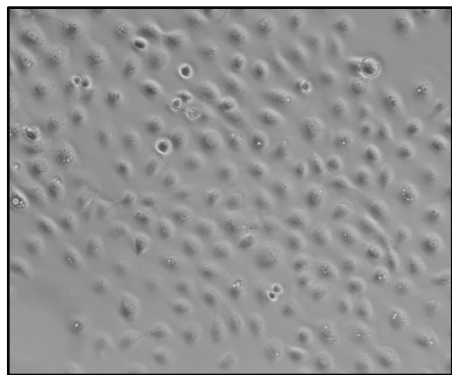
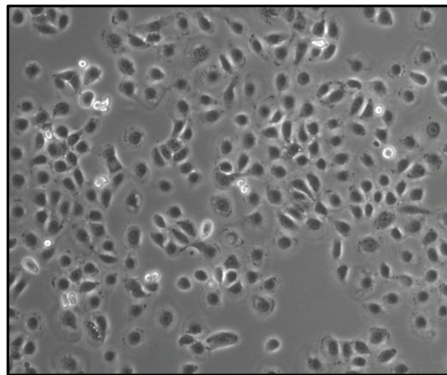


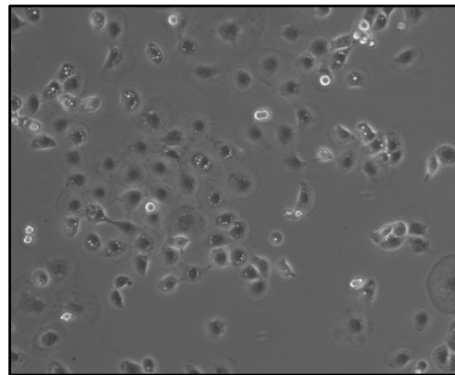
SCC25



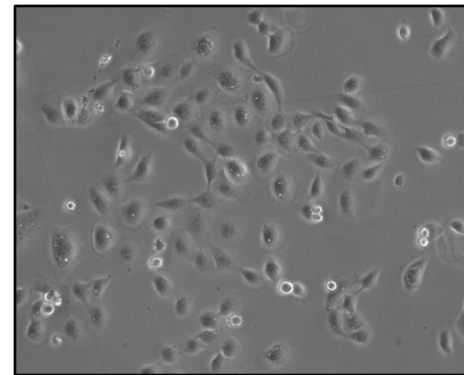
CTXR1



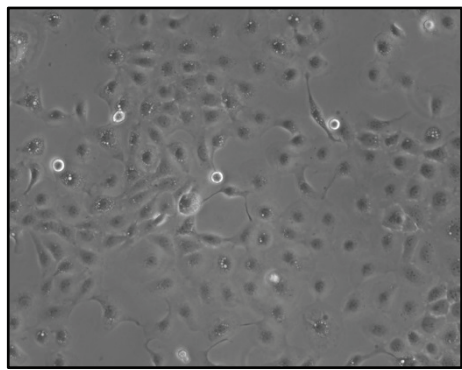
CTXR2



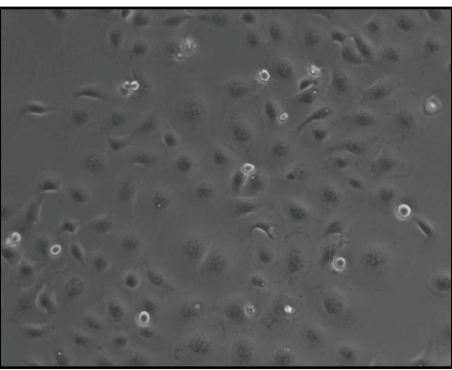
CTXR3



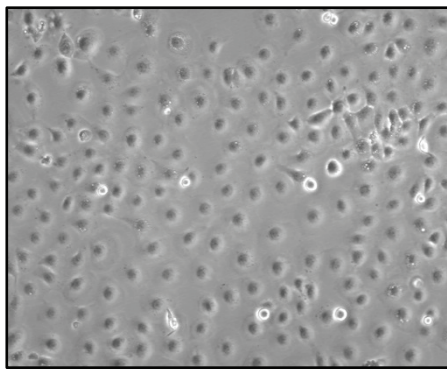
CTXR4



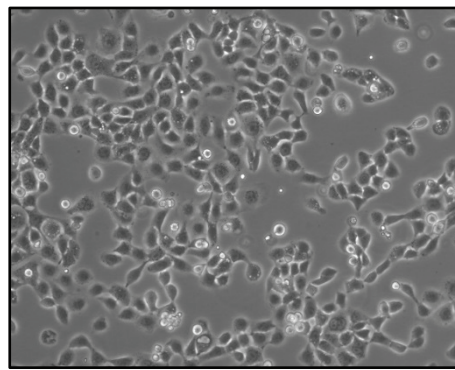
CTXR5



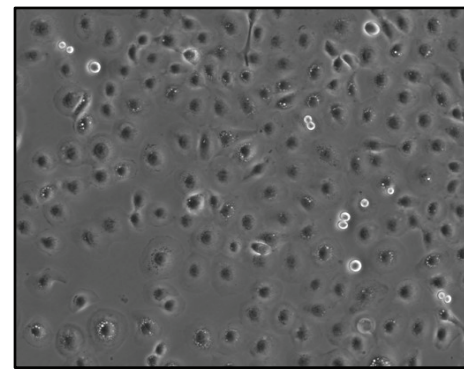
CTXR6



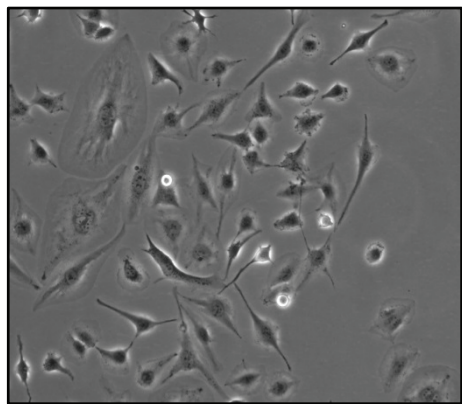
CTXR7



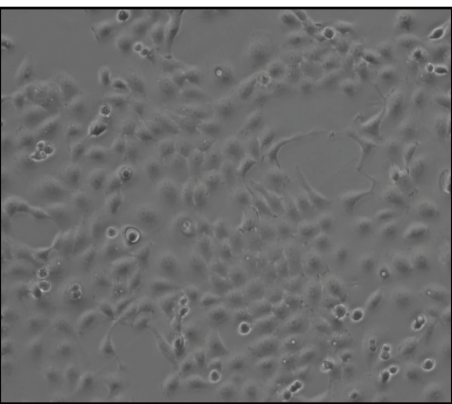
CTXR8



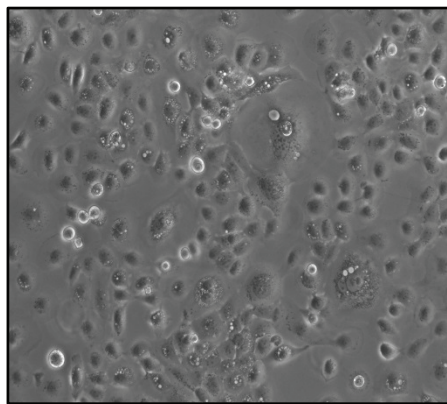
CTXR9



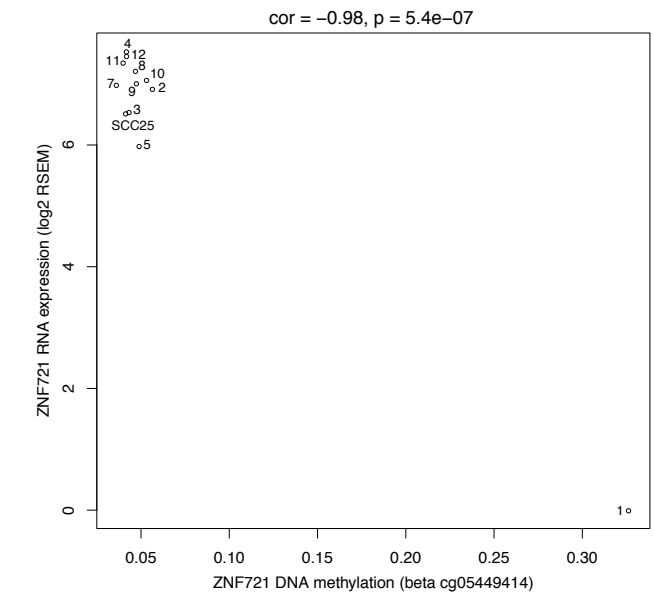
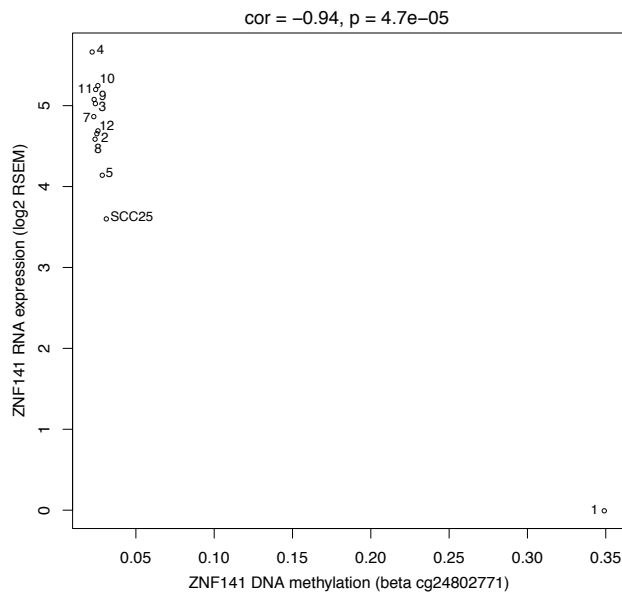
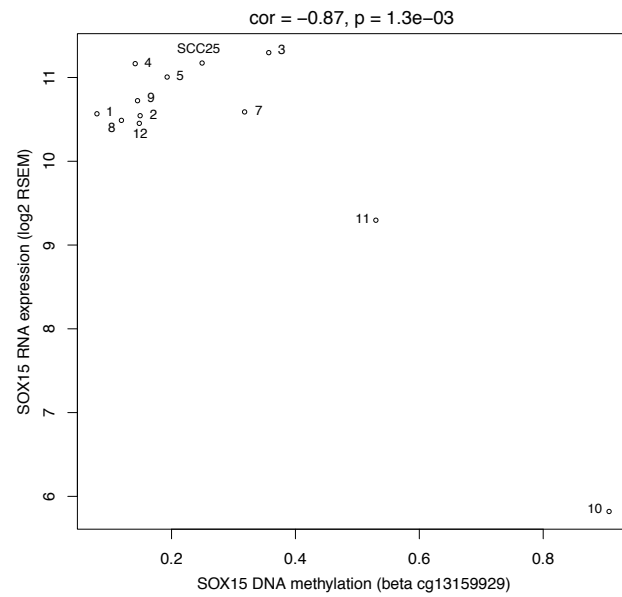
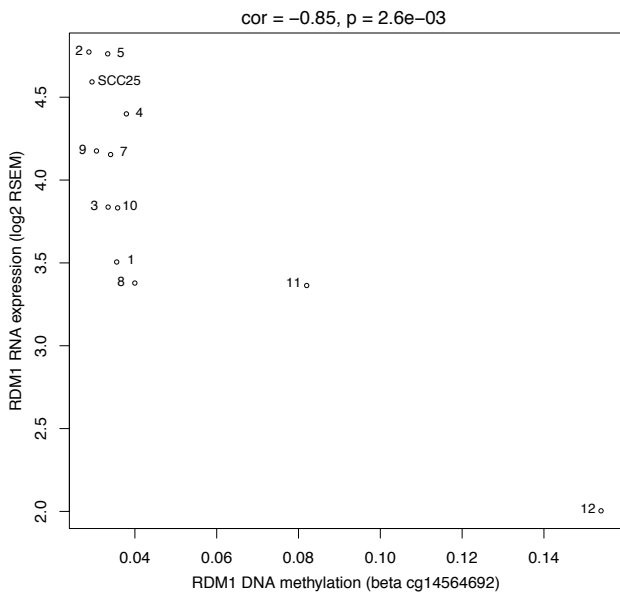
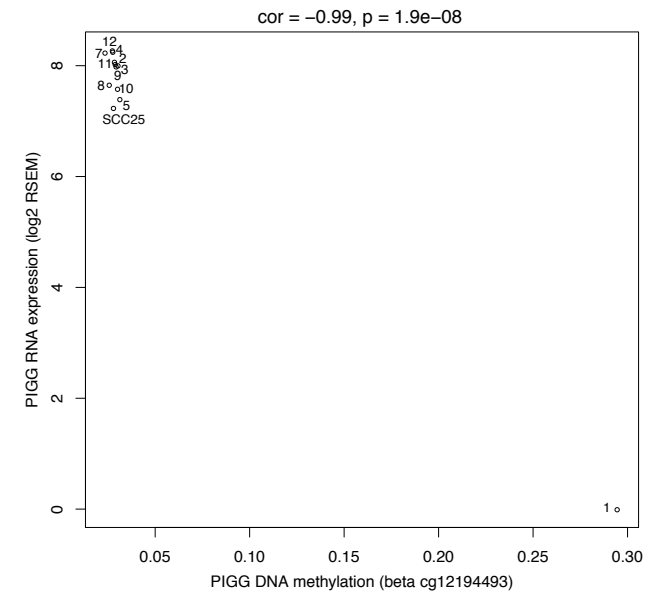
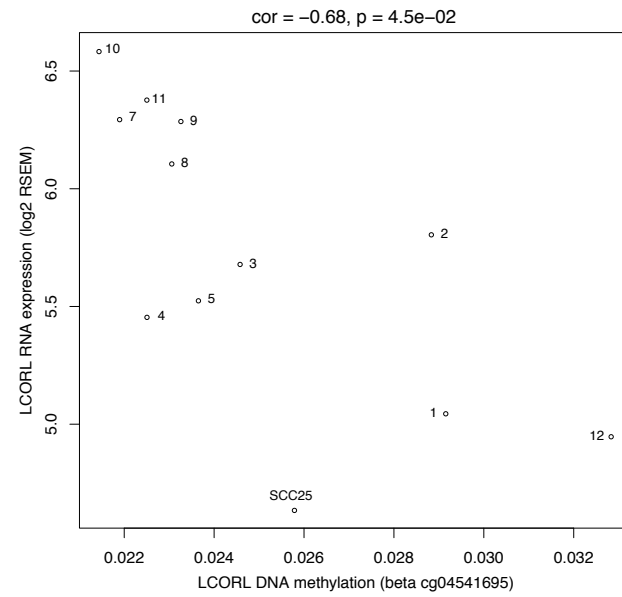
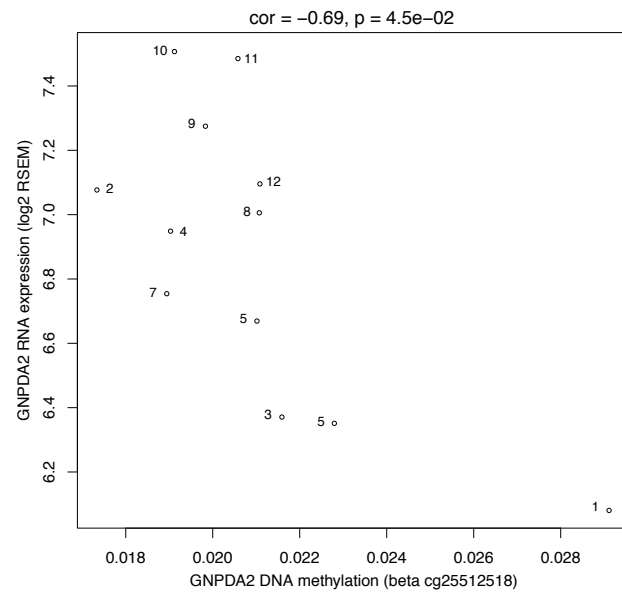
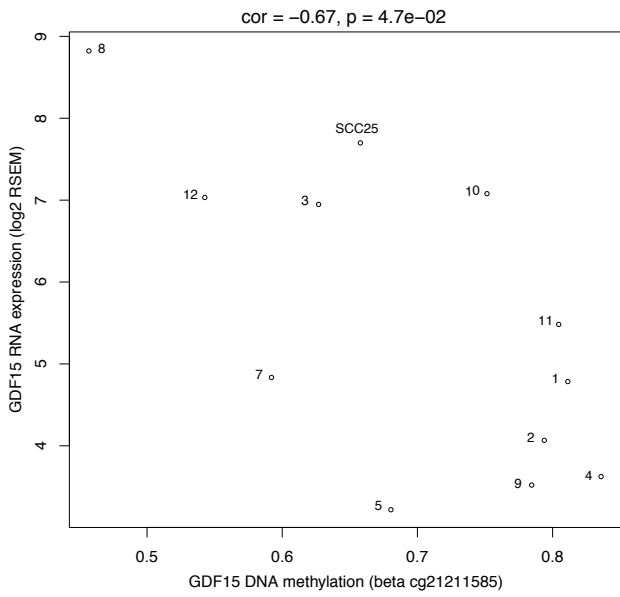
CTXR10

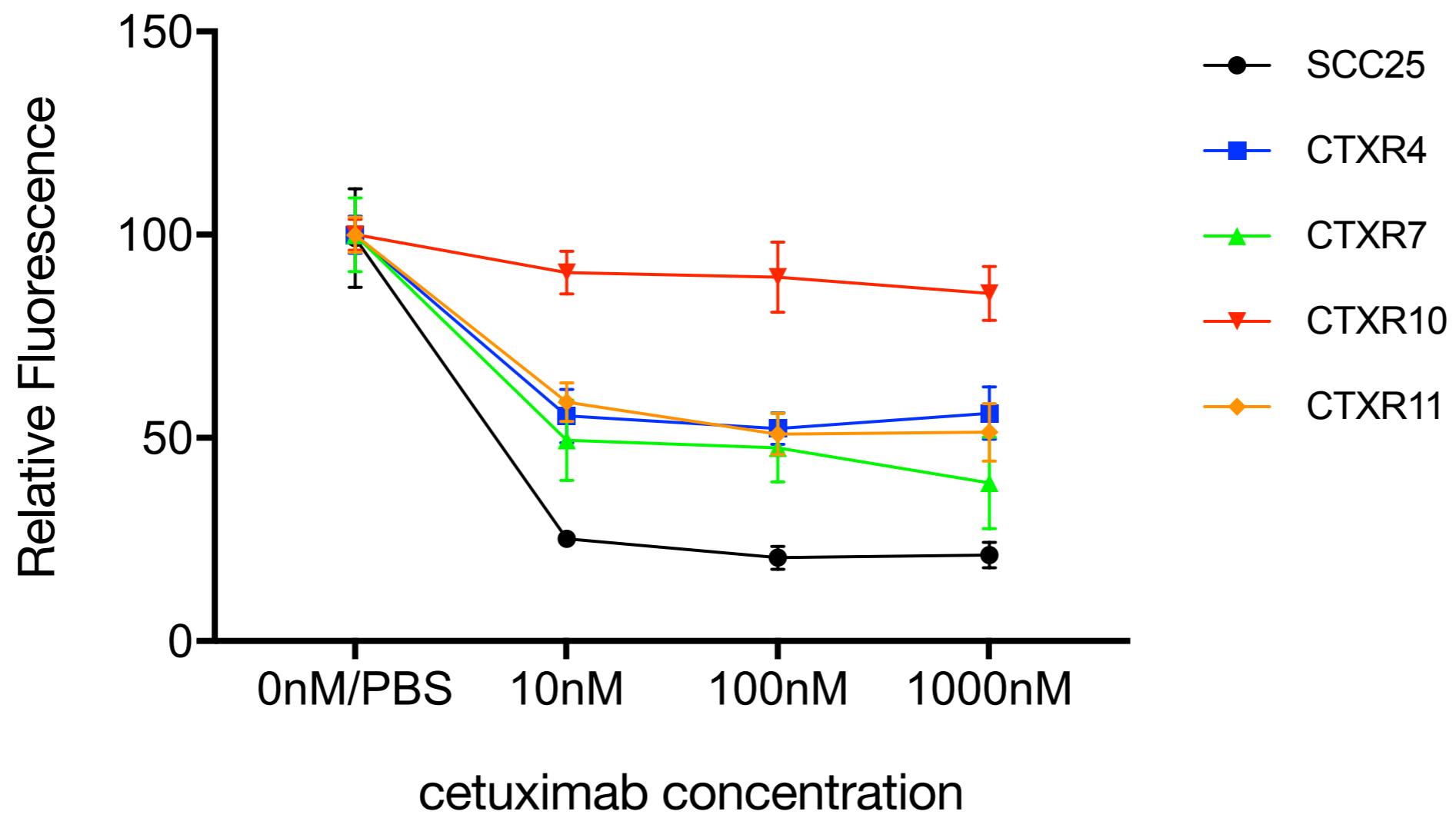


CTXR11

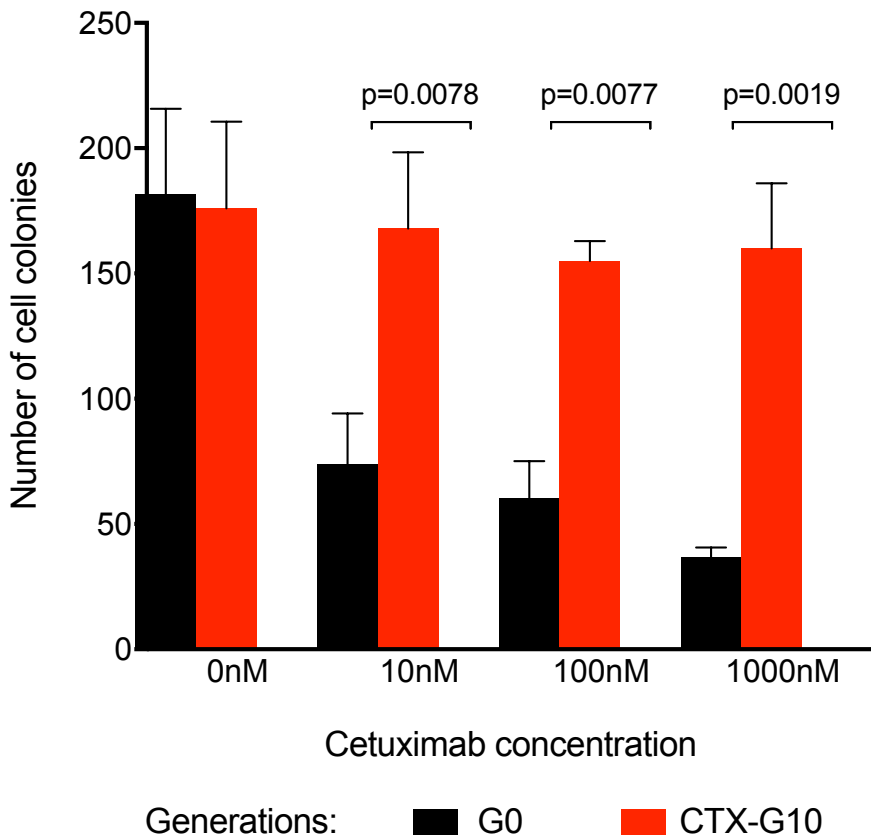


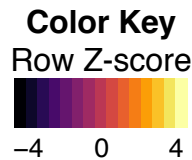
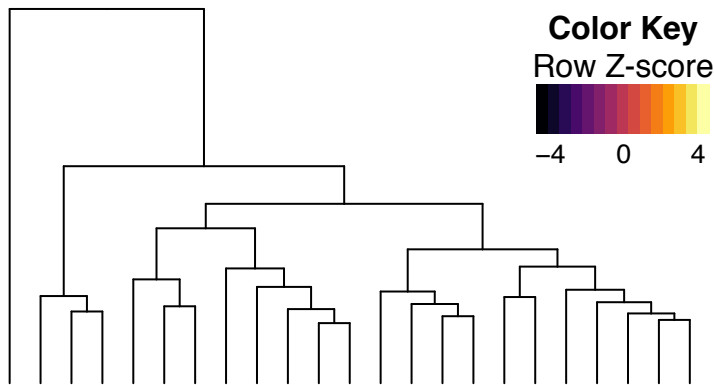
CTXR12



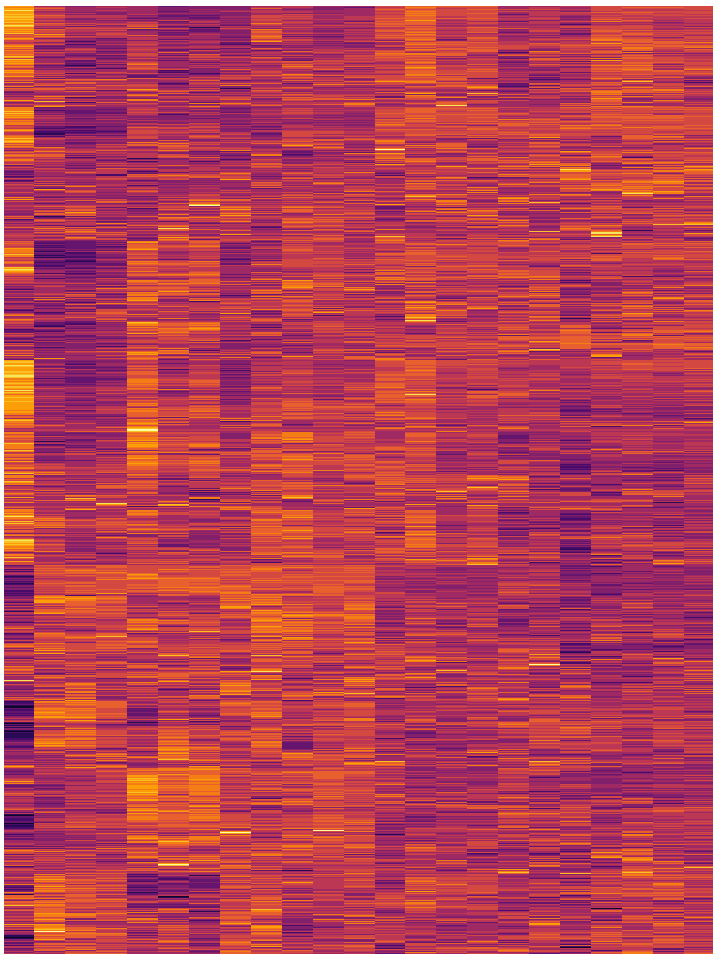
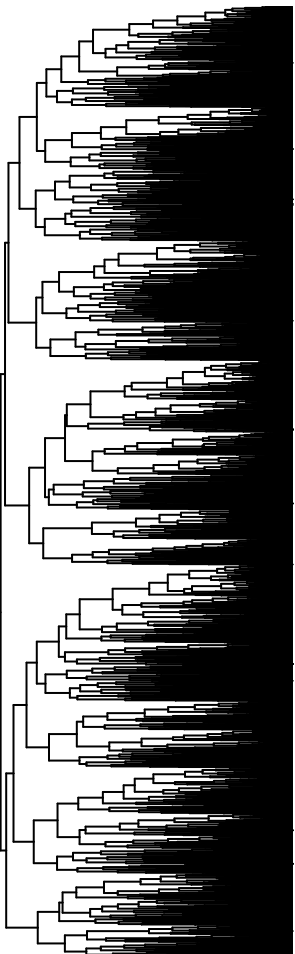


Colony formation assay





Cetuximab **PBS**

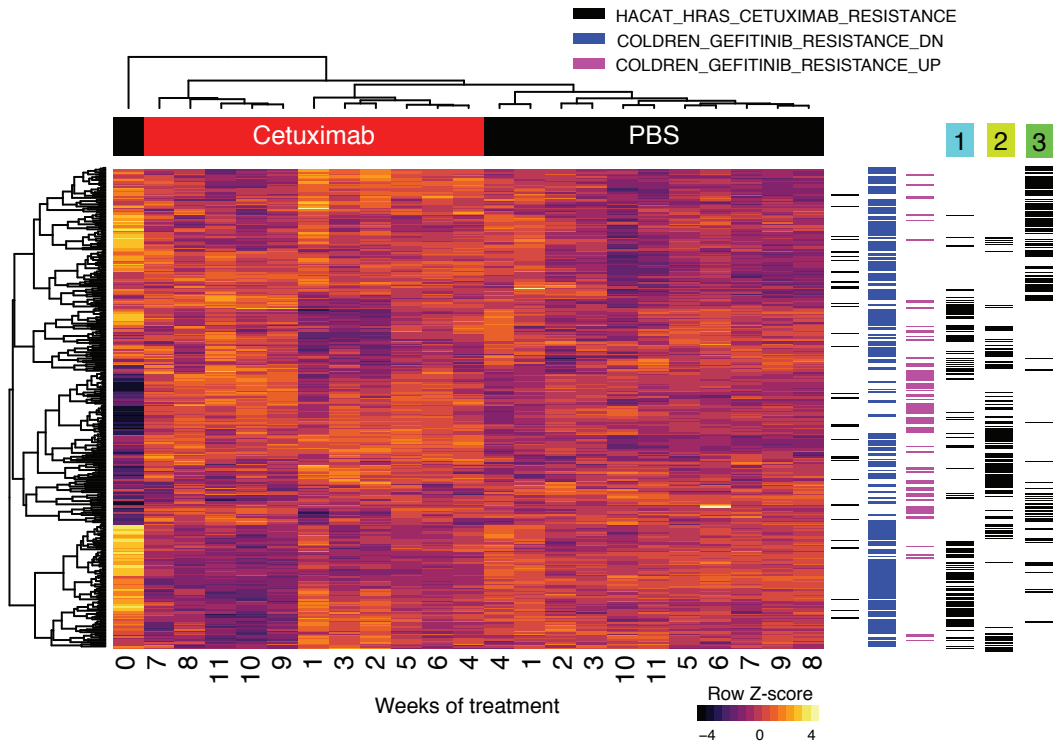


0 11 10 9 1 3 2 8 7 4 5 6 1 4 5 6 2 3 10 7 8 11 9

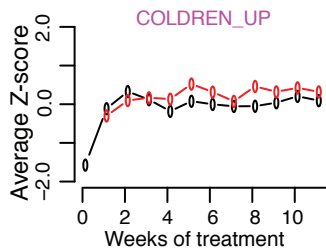
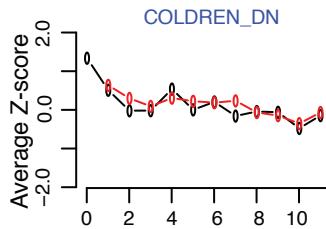
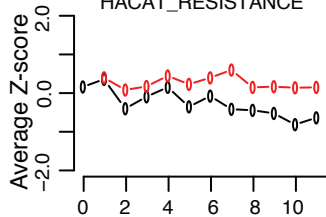
weeks

Clustering of resistance signatures

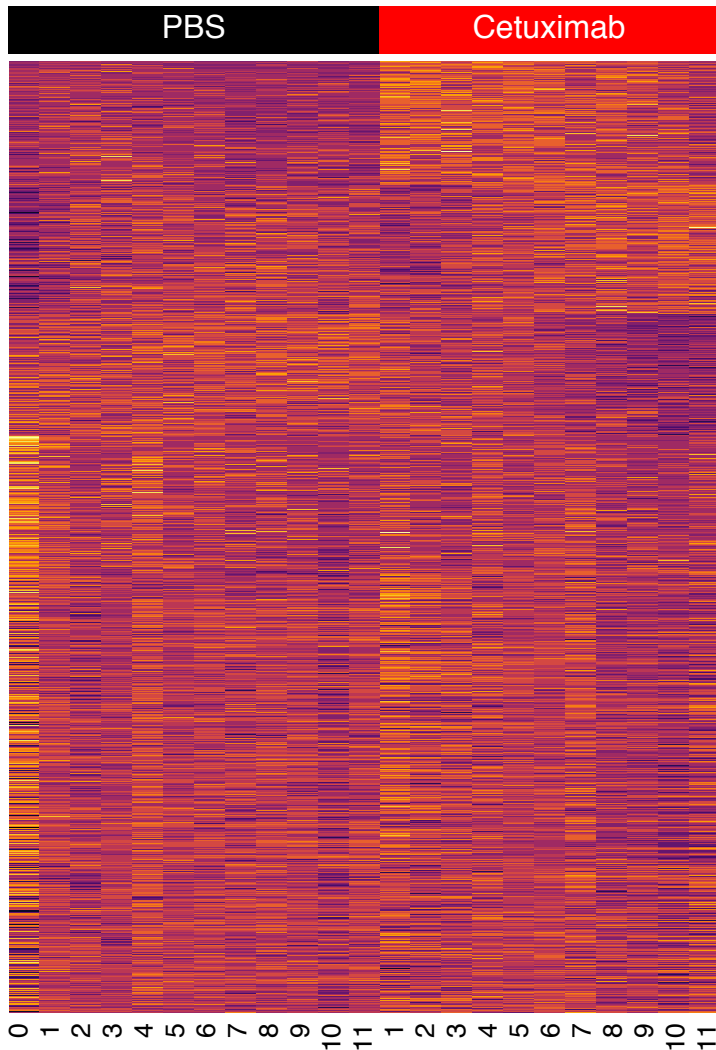
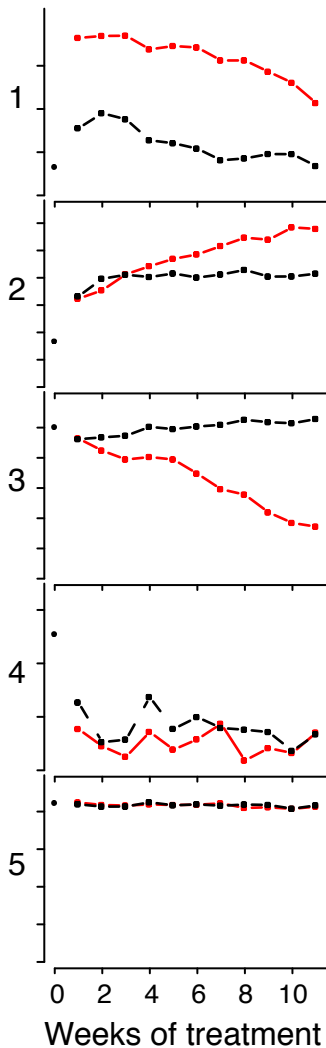
A Unsupervised hierarchical clustering for resistance-associated genes



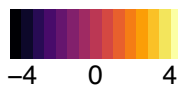
B Resistance signatures (avg expression v. time)
HACAT_RESISTANCE



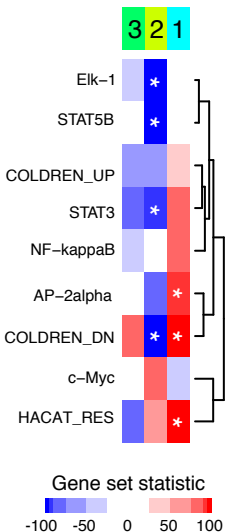
CoGAPS Metapathway Activity (Expression Patterns)



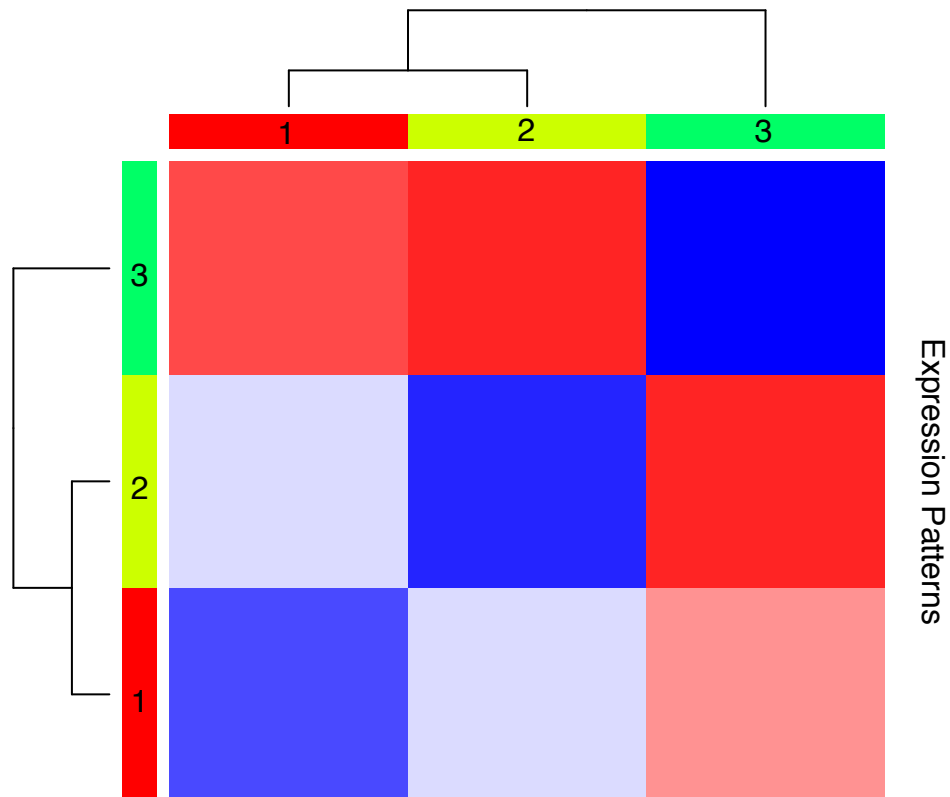
Color Key
Row Z-score



Pattern geneset enrichment

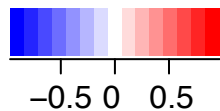


A Correlation in CoGAPS sample patterns

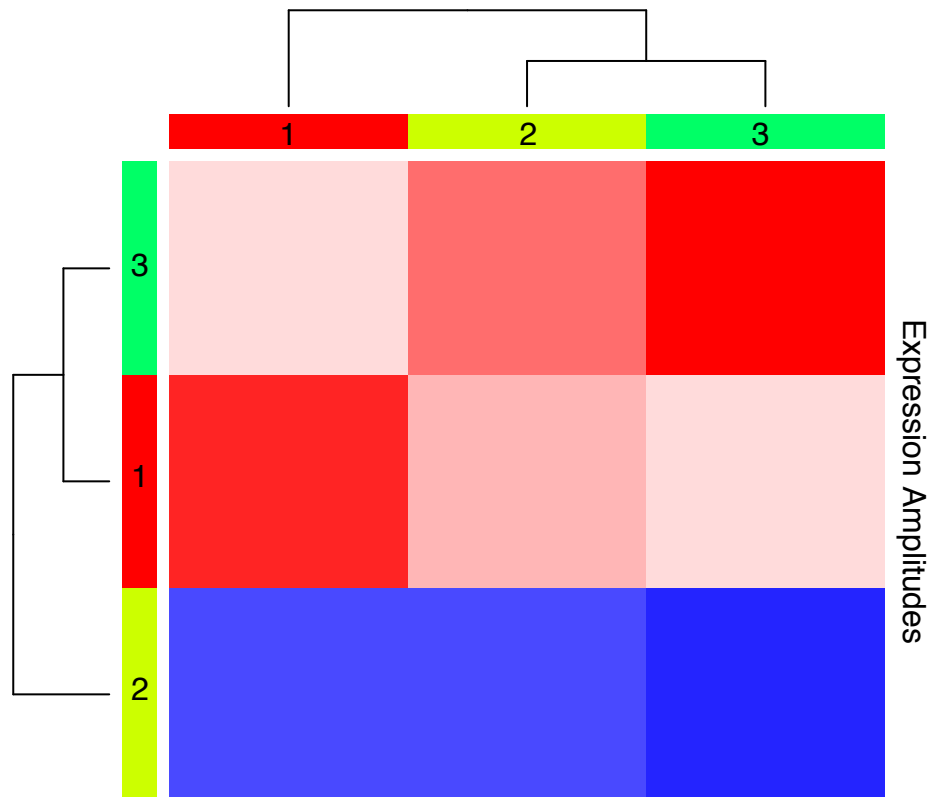


DNA Methylation Patterns

Pearson correlation coefficient (R)

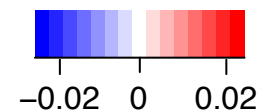


B Correlation in CoGAPS gene amplitudes



DNA Methylation Amplitudes

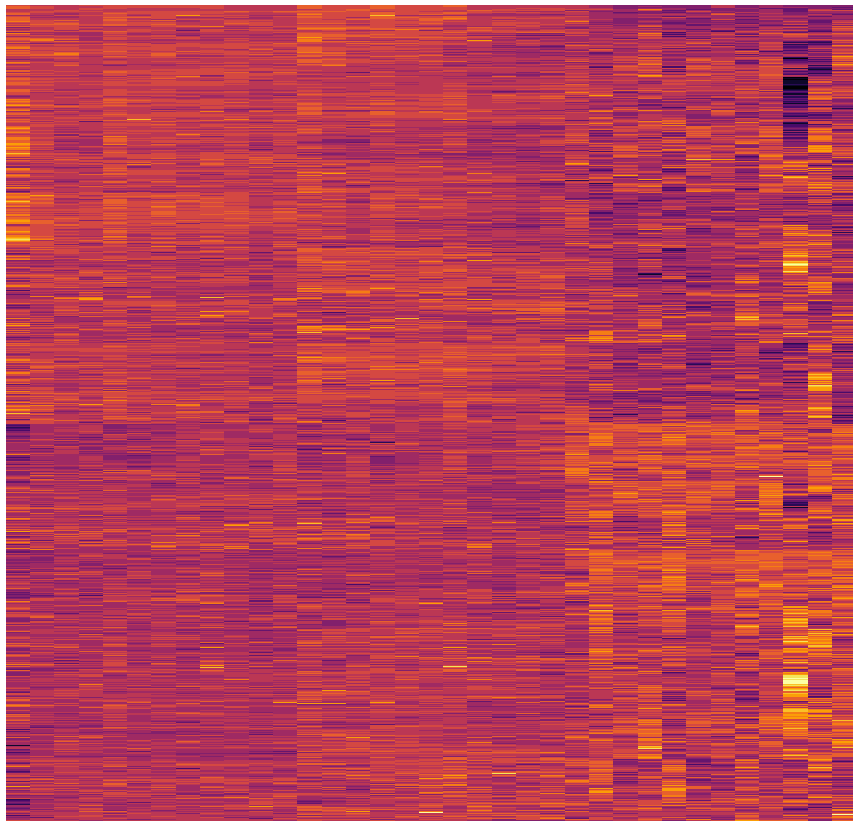
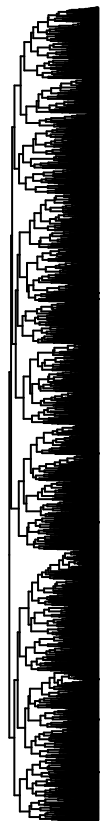
Pearson correlation coefficient (R)



PBS

Cetuximab

CTX resistant clones



0 1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 7 8 9 10 11
SCC25
CTXR1
CTXR2
CTXR3
CTXR4
CTXR5
CTXR7
CTXR8
CTXR9
CTXR10
CTXR11
CTXR12

Weeks of treatment

Clone ID

Row Z-score

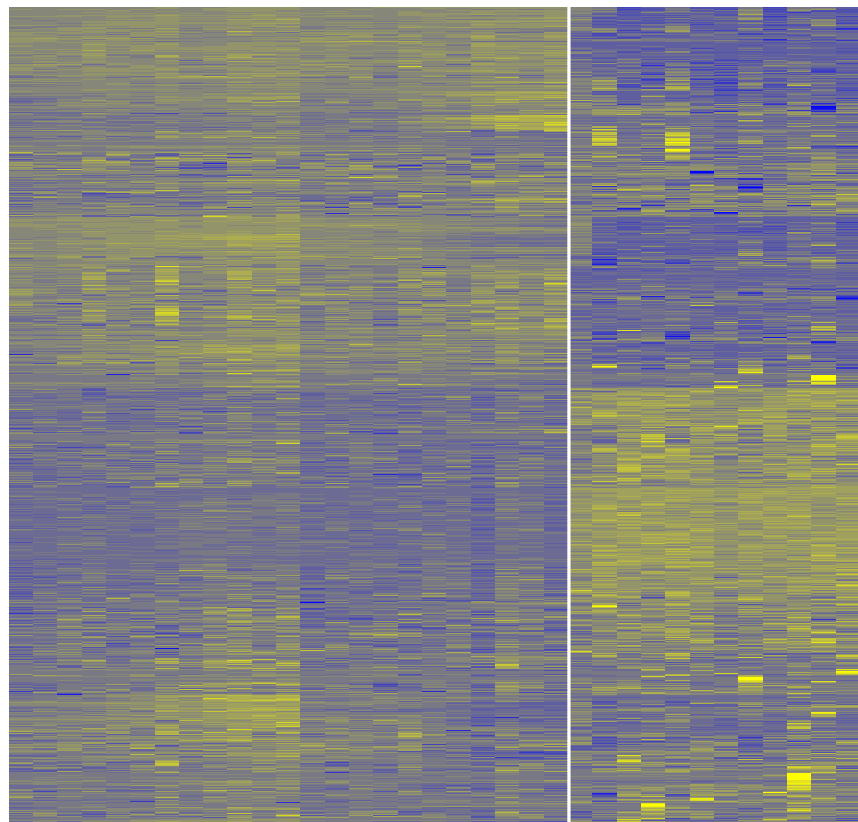
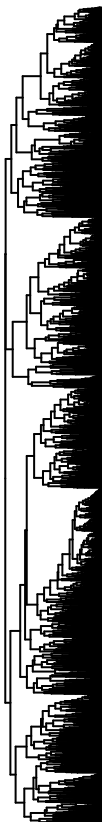


-4 0 4

PBS

Cetuximab

CTX resistant clones



0 1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 7 8 9 10 11

SCC25
CTXR1
CTXR2
CTXR3
CTXR4
CTXR5
CTXR7
CTXR8
CTXR9
CTXR10
CTXR11
CTXR12

Weeks of treatment

Clone ID

Row Z-score (β)

-4 0 4