

Figure S1

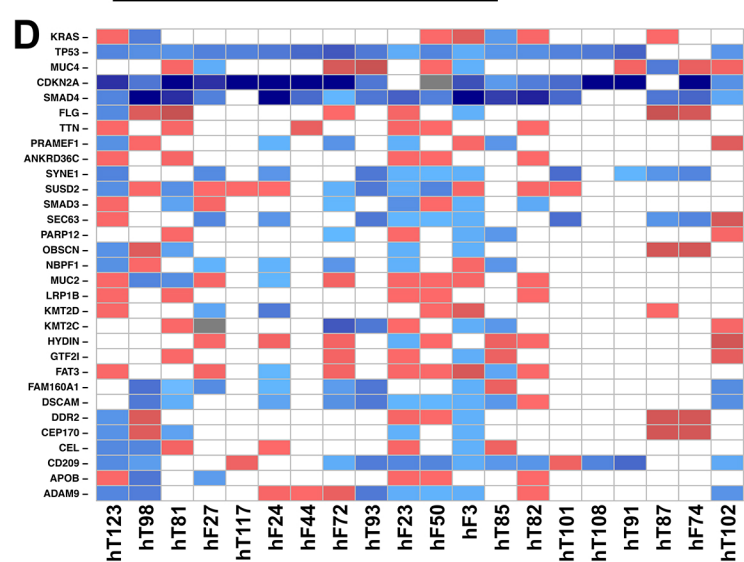
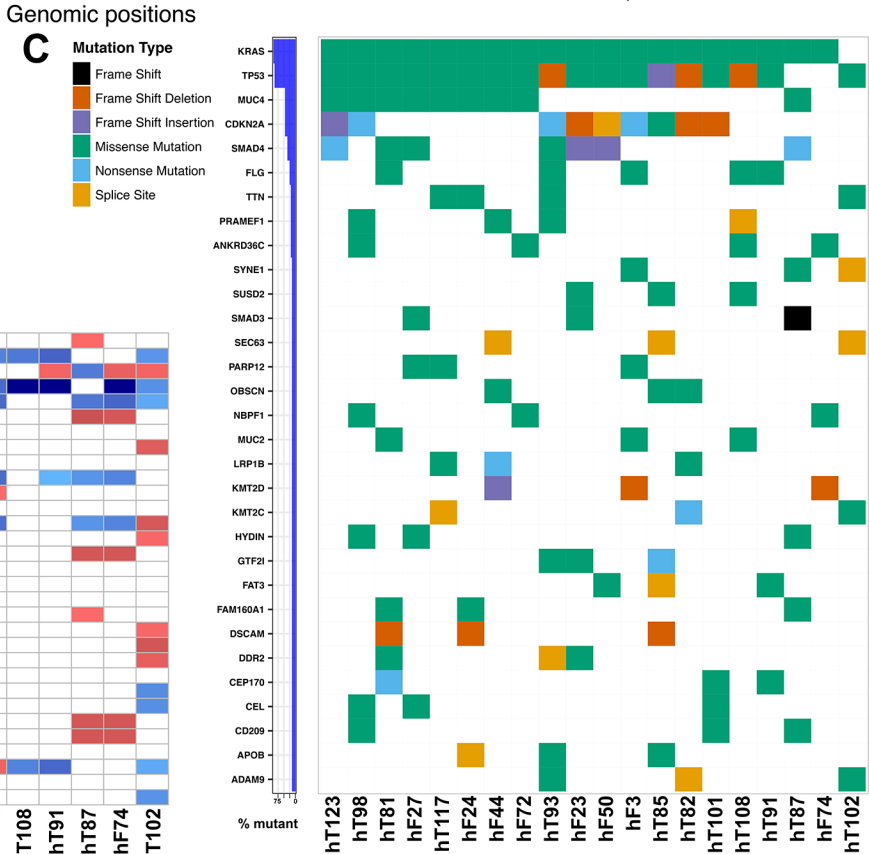
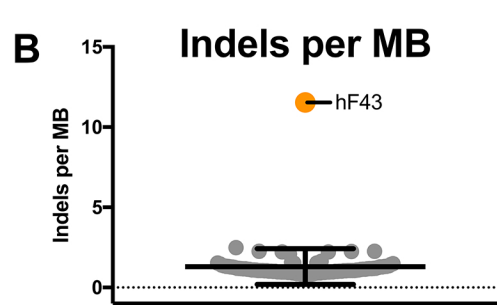
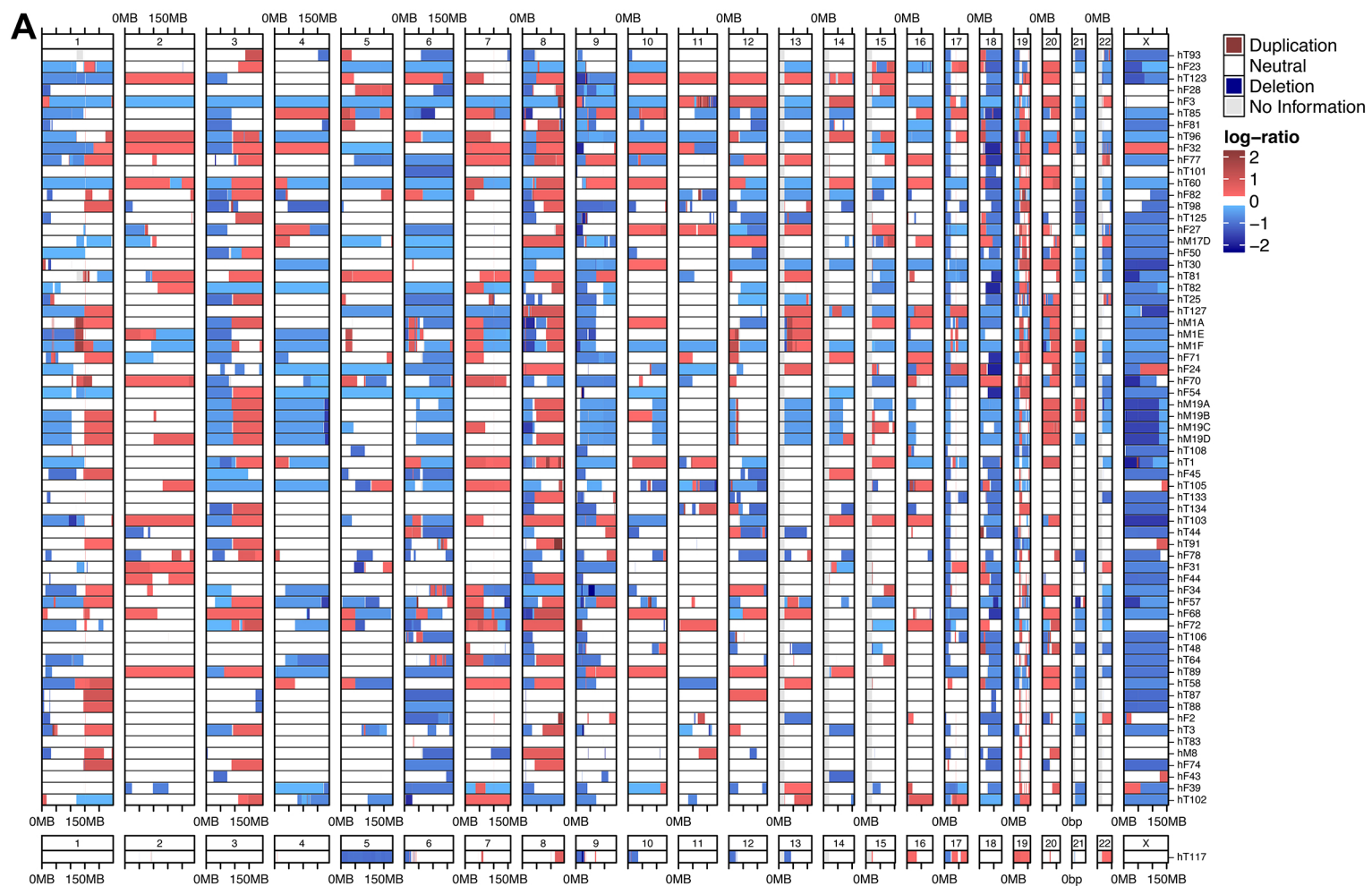


Figure S2

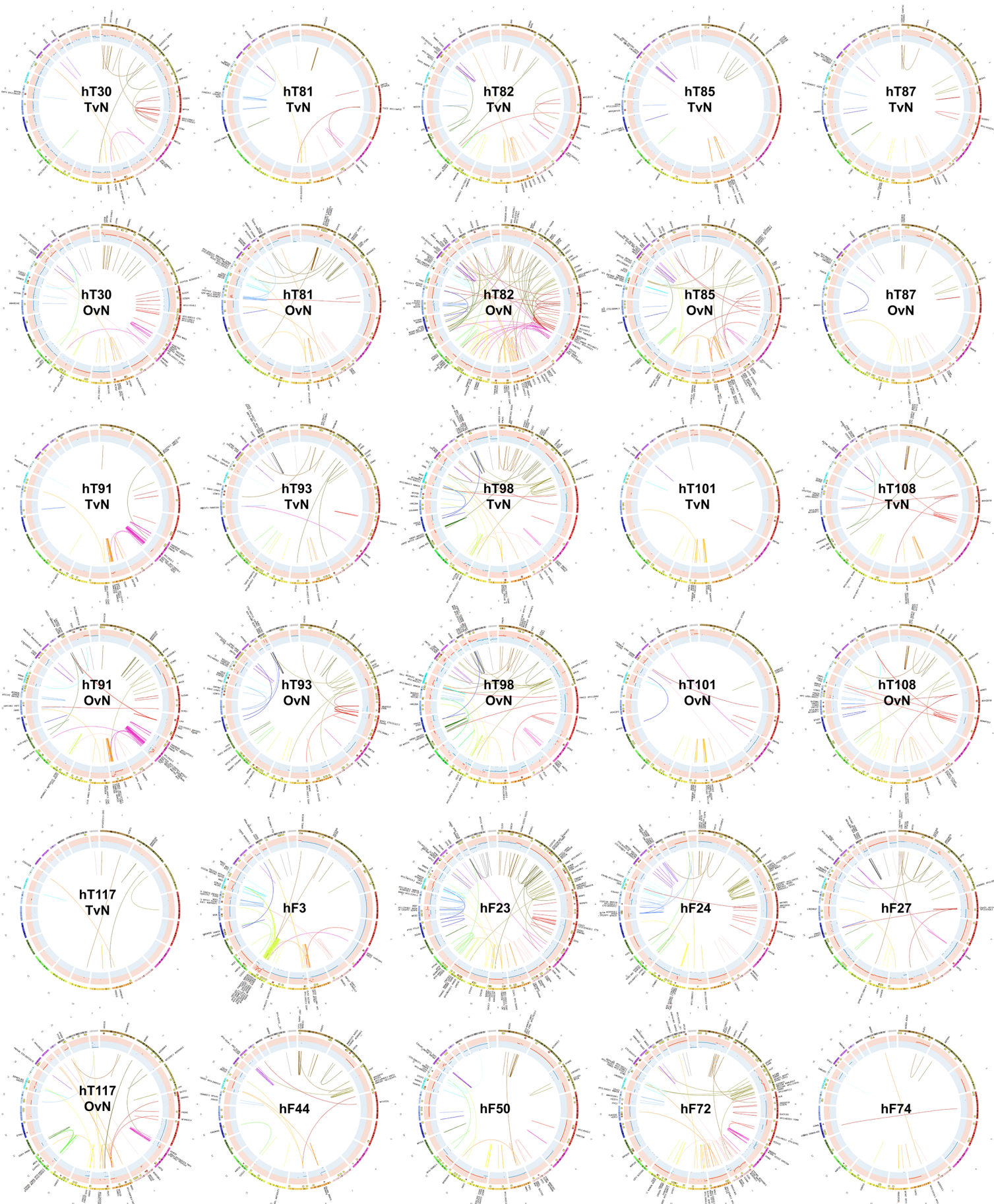
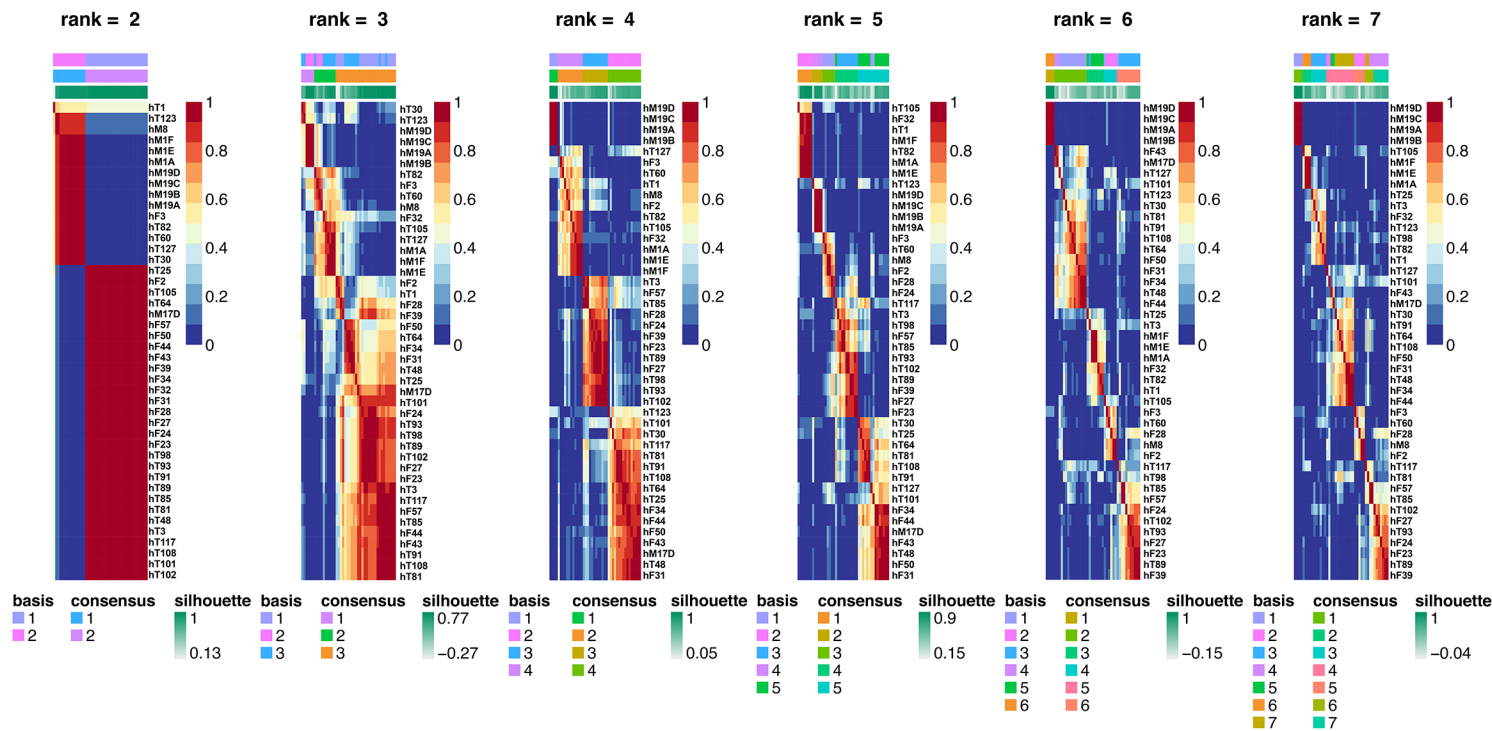


Figure S3

A



B

NMF rank survey

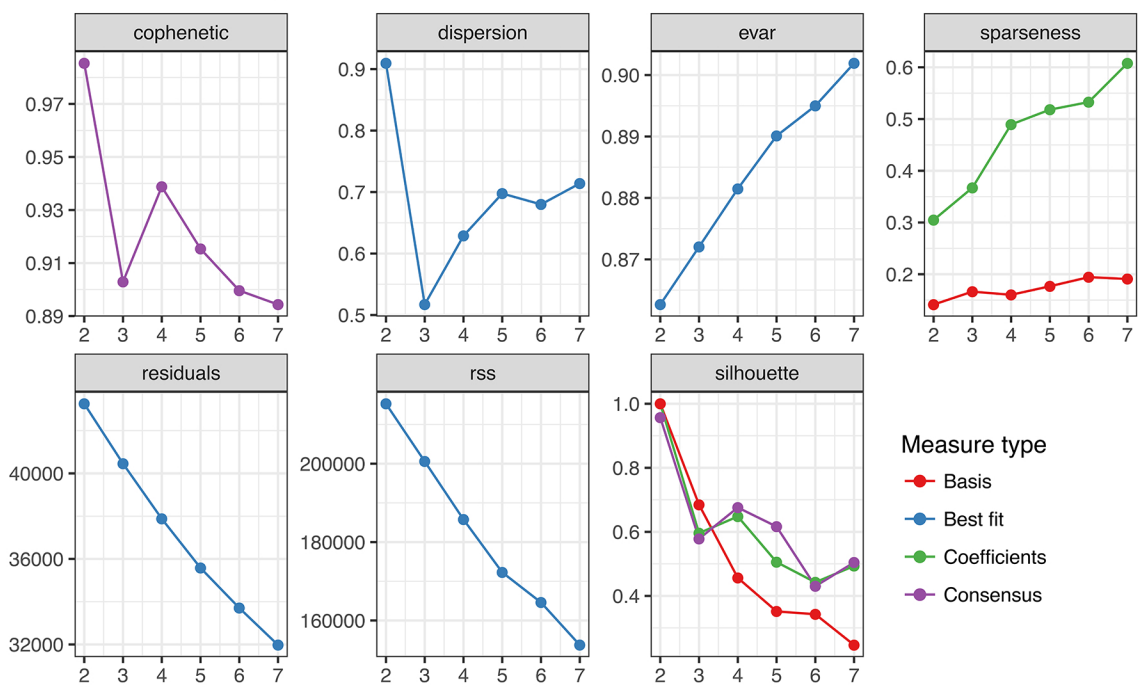


Figure S4

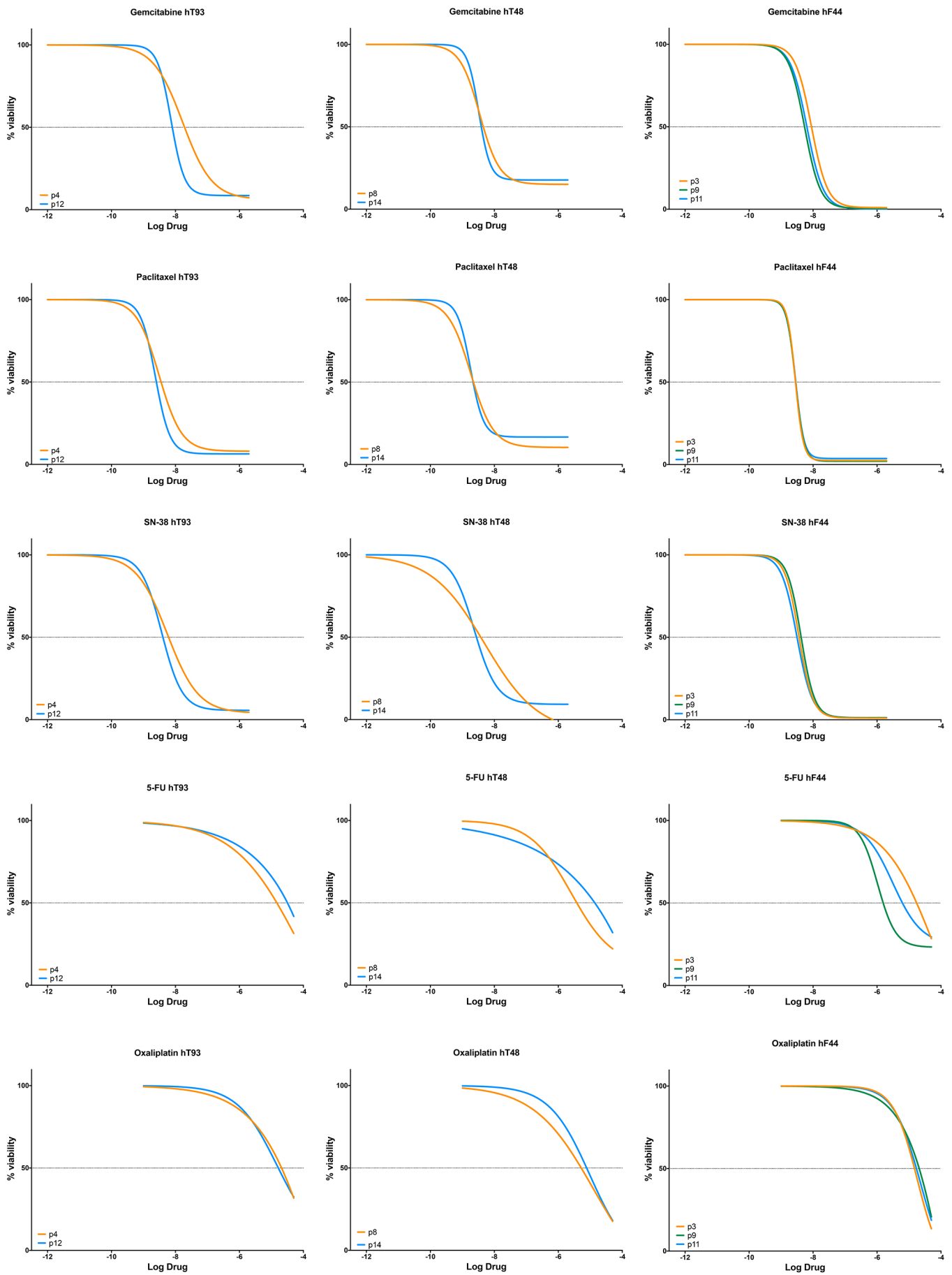


Figure S5

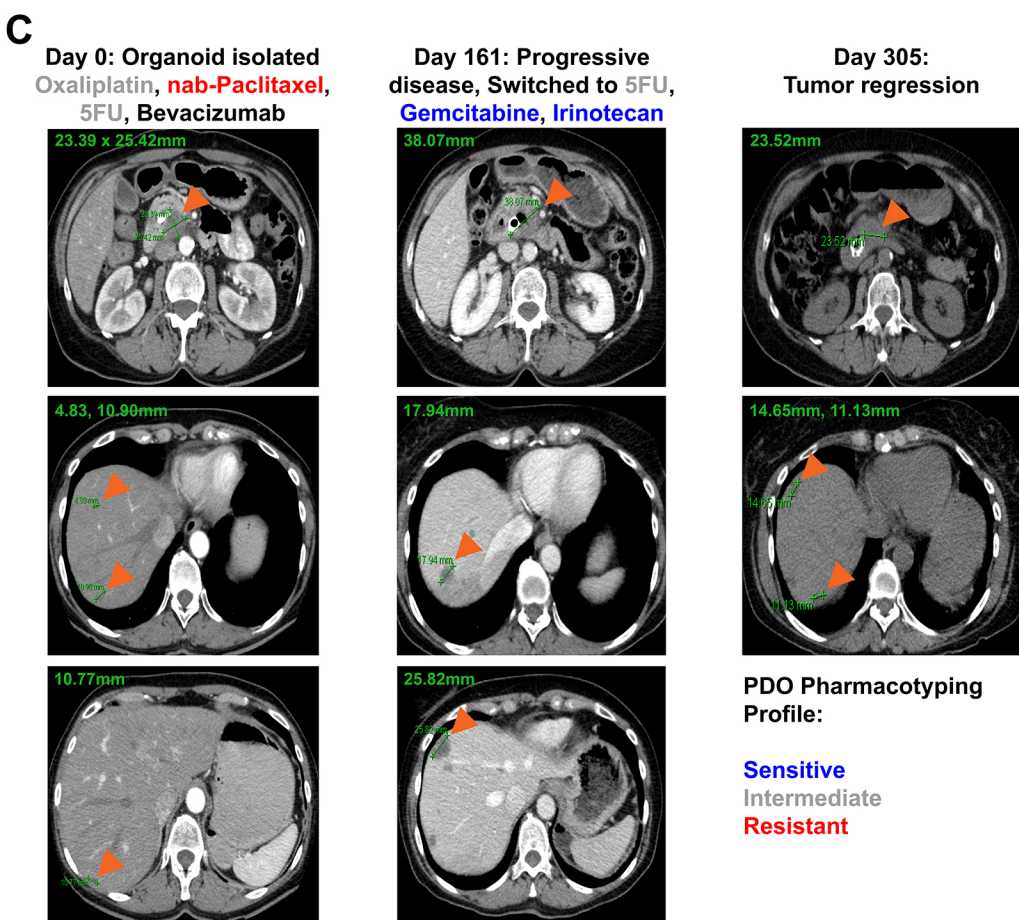
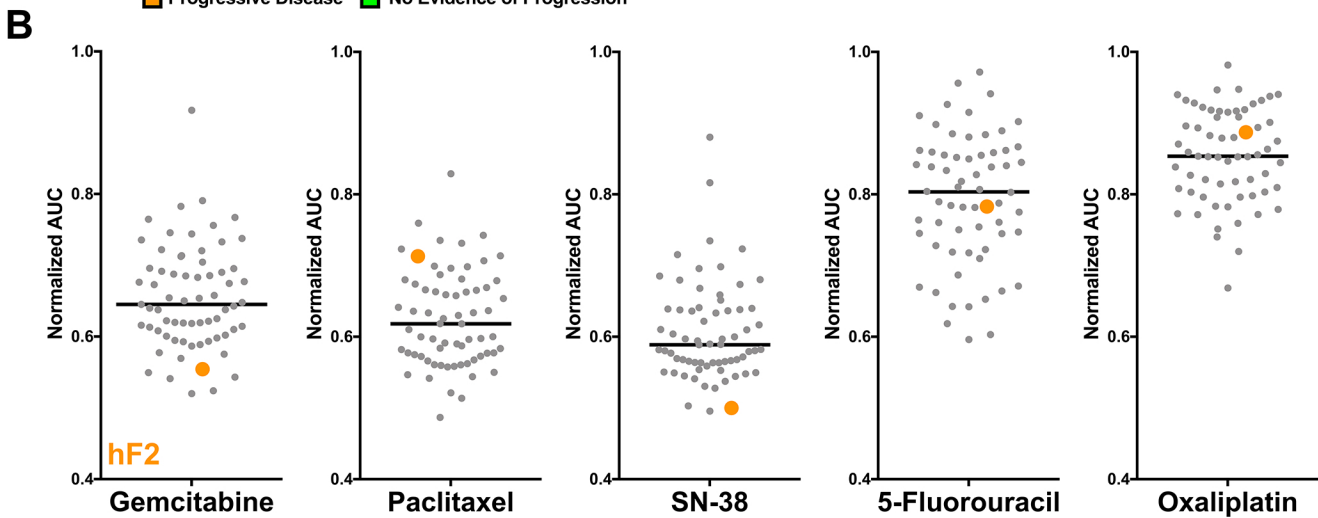
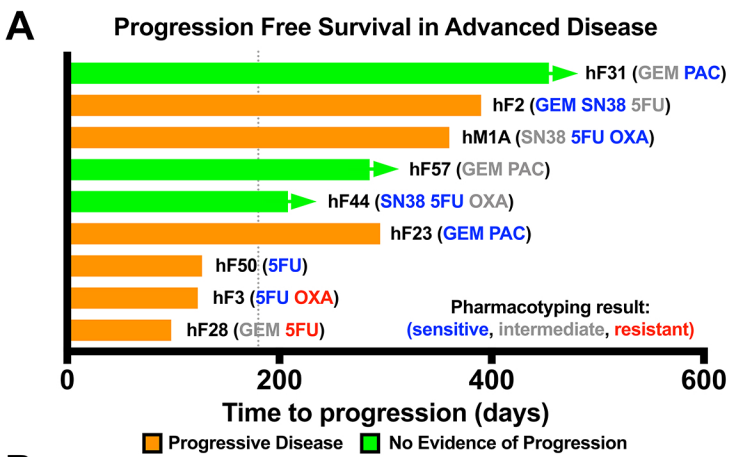
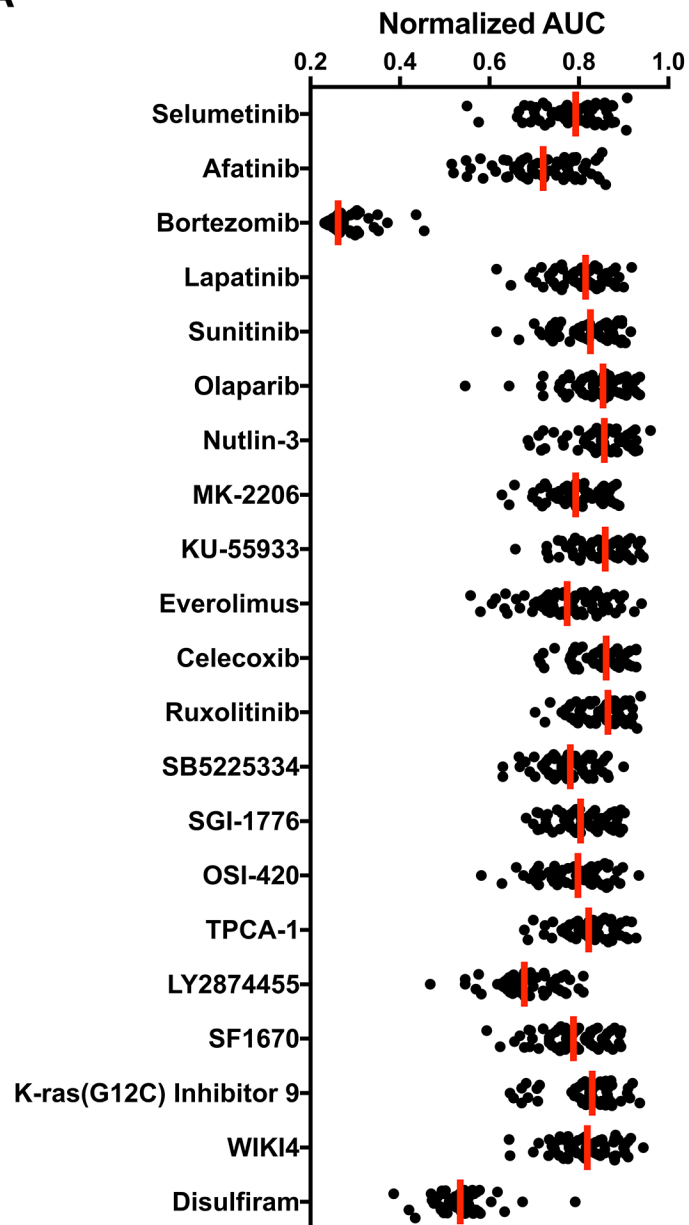
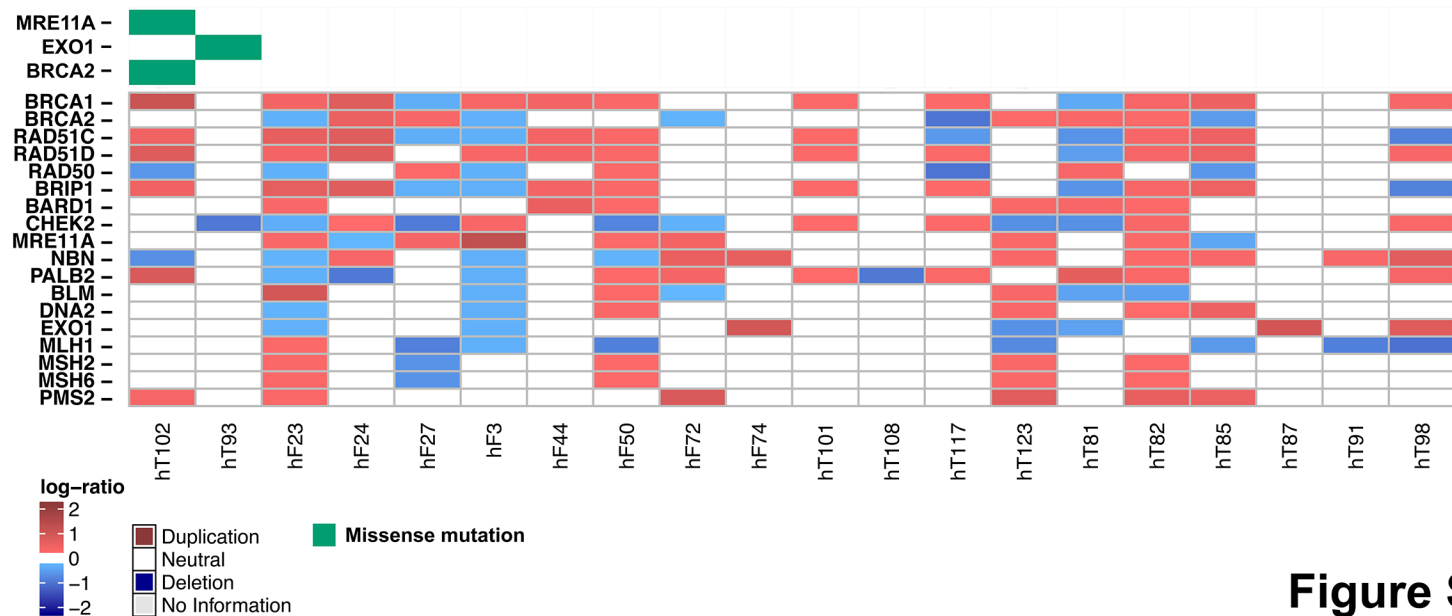


Figure S6

A**B****Figure S7**

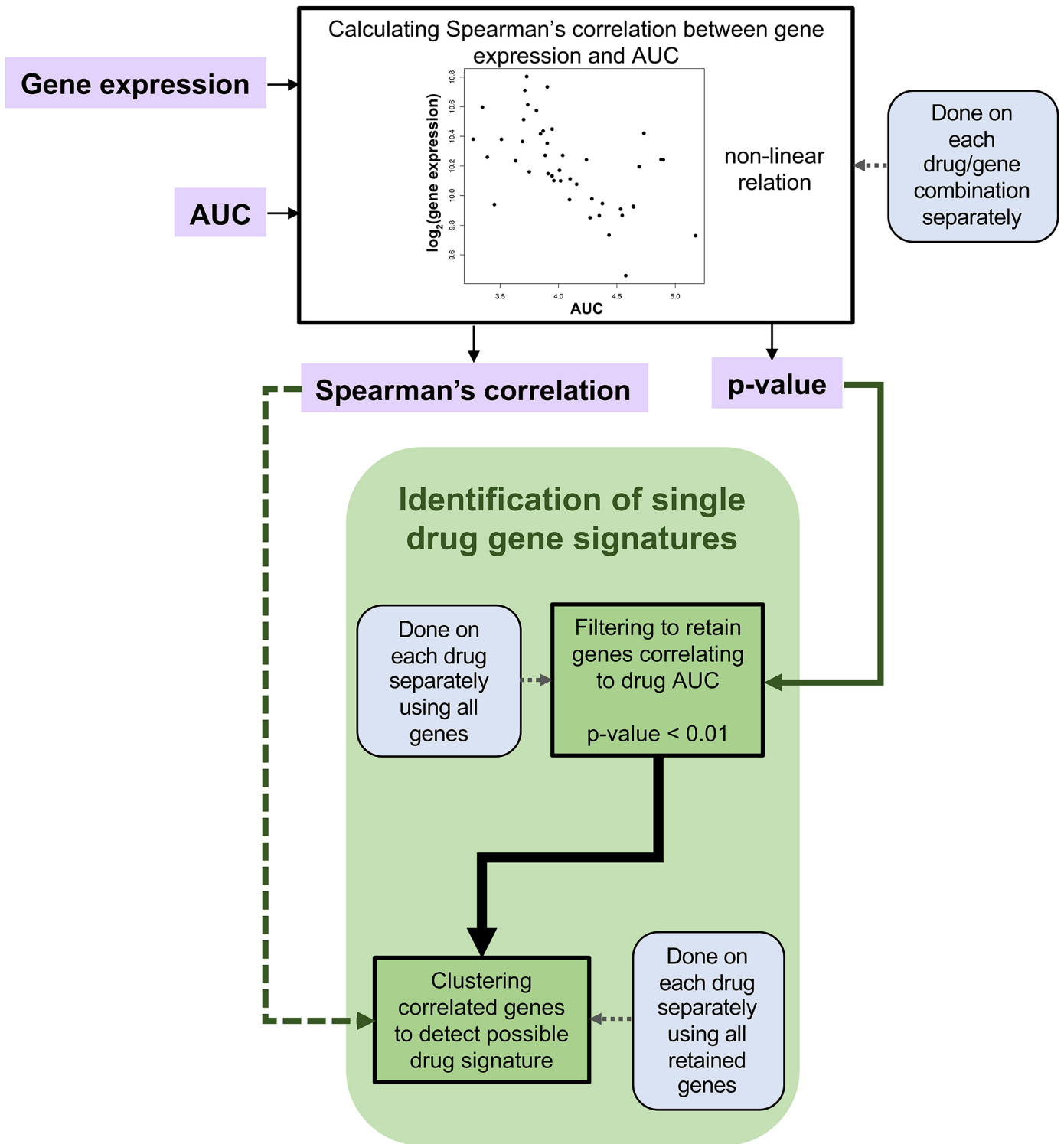
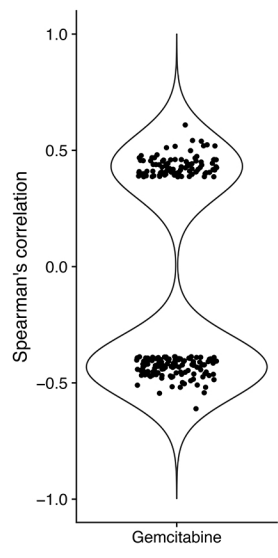
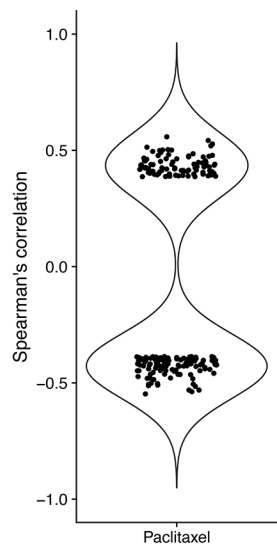
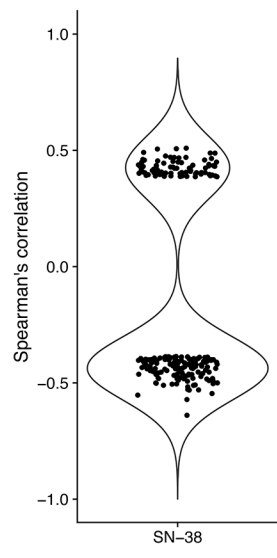
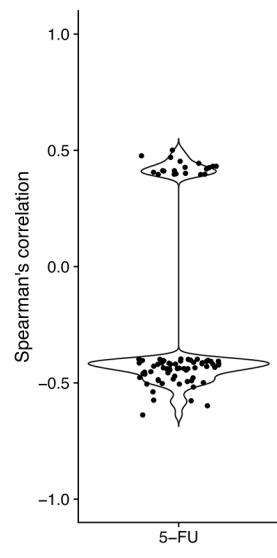
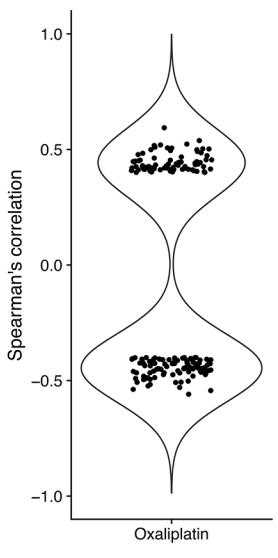


Figure S8

A**B****C****D****E****Figure S9**

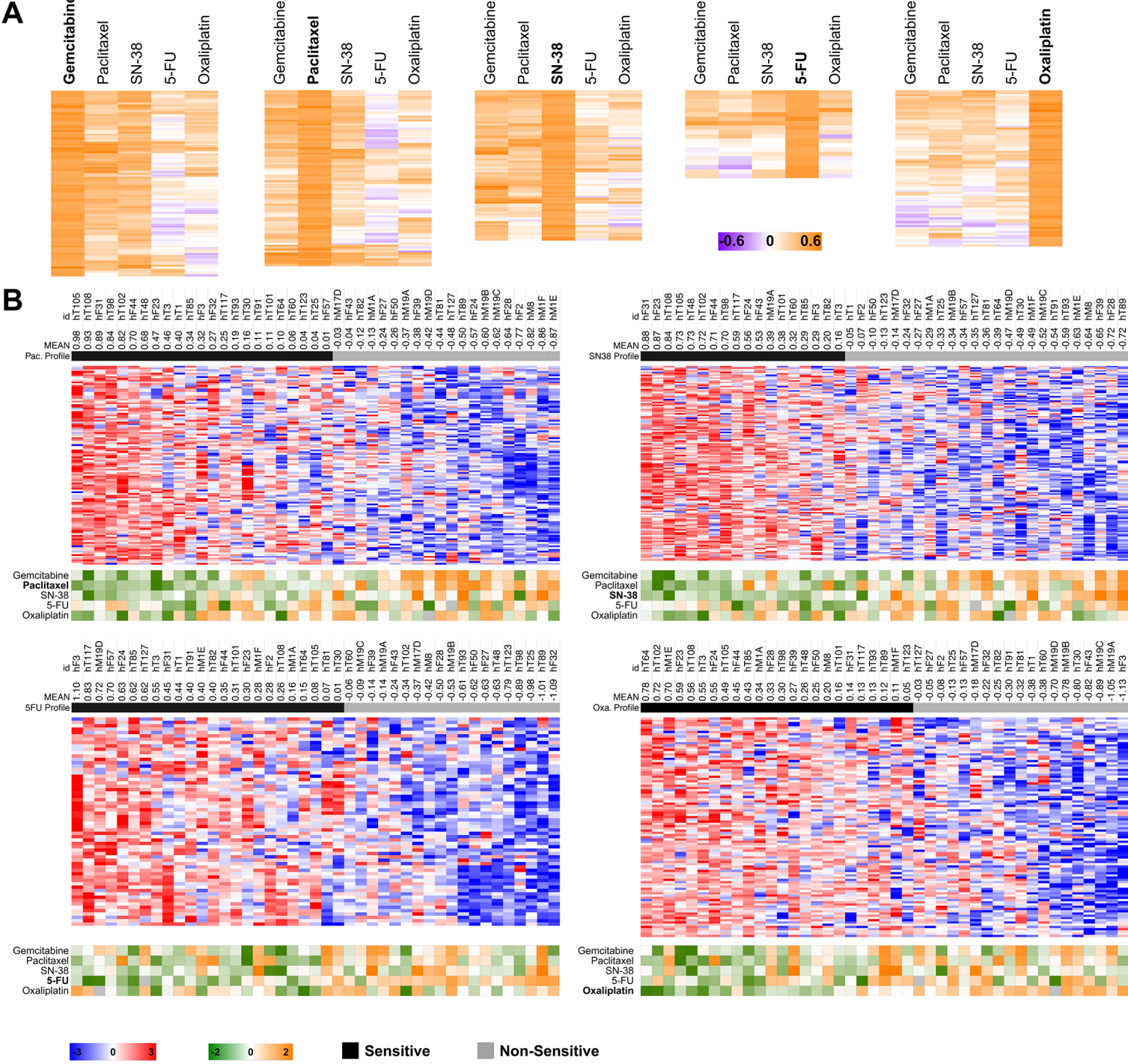


Figure S10

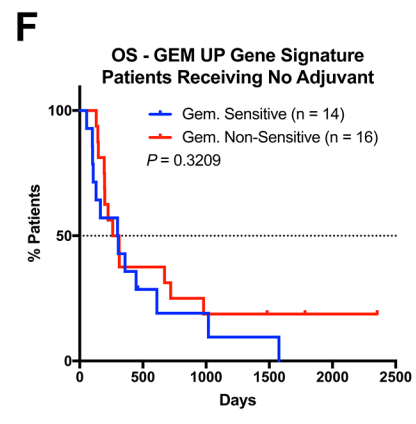
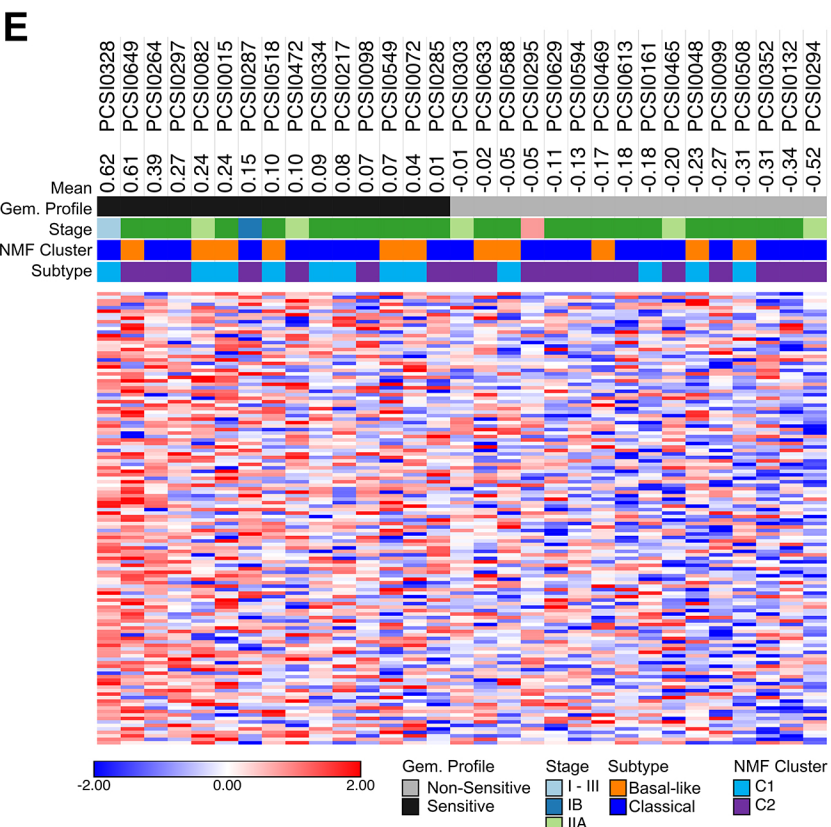
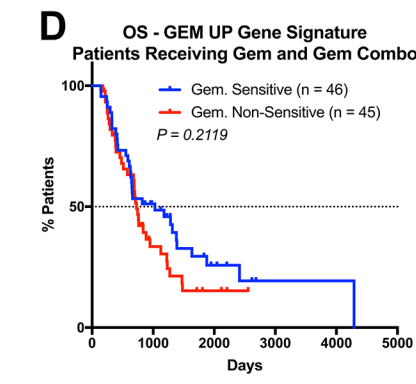
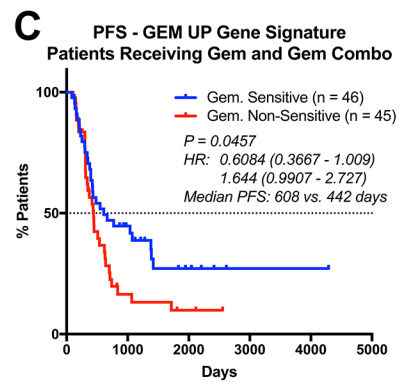
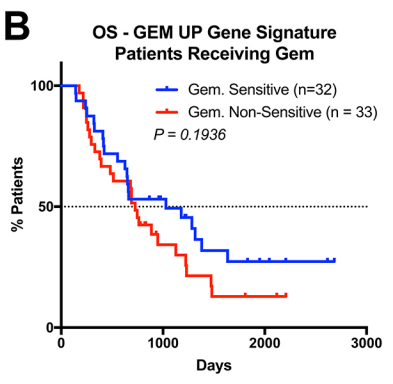
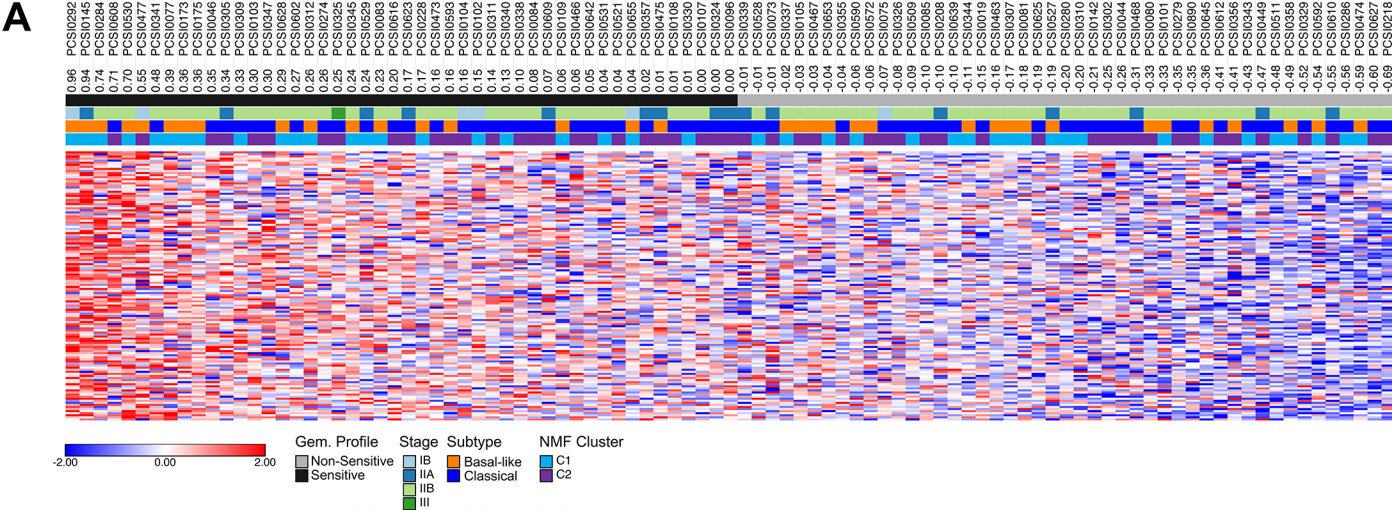


Figure S11

GA COMPASS Cohort

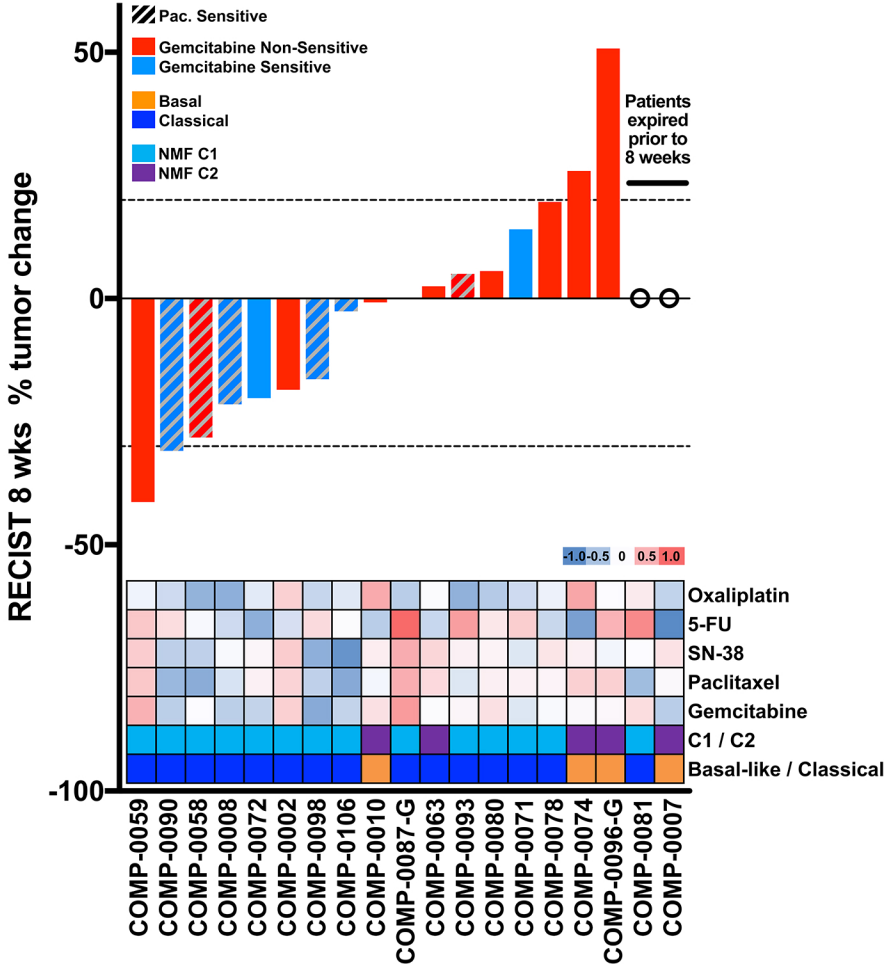


Figure S13