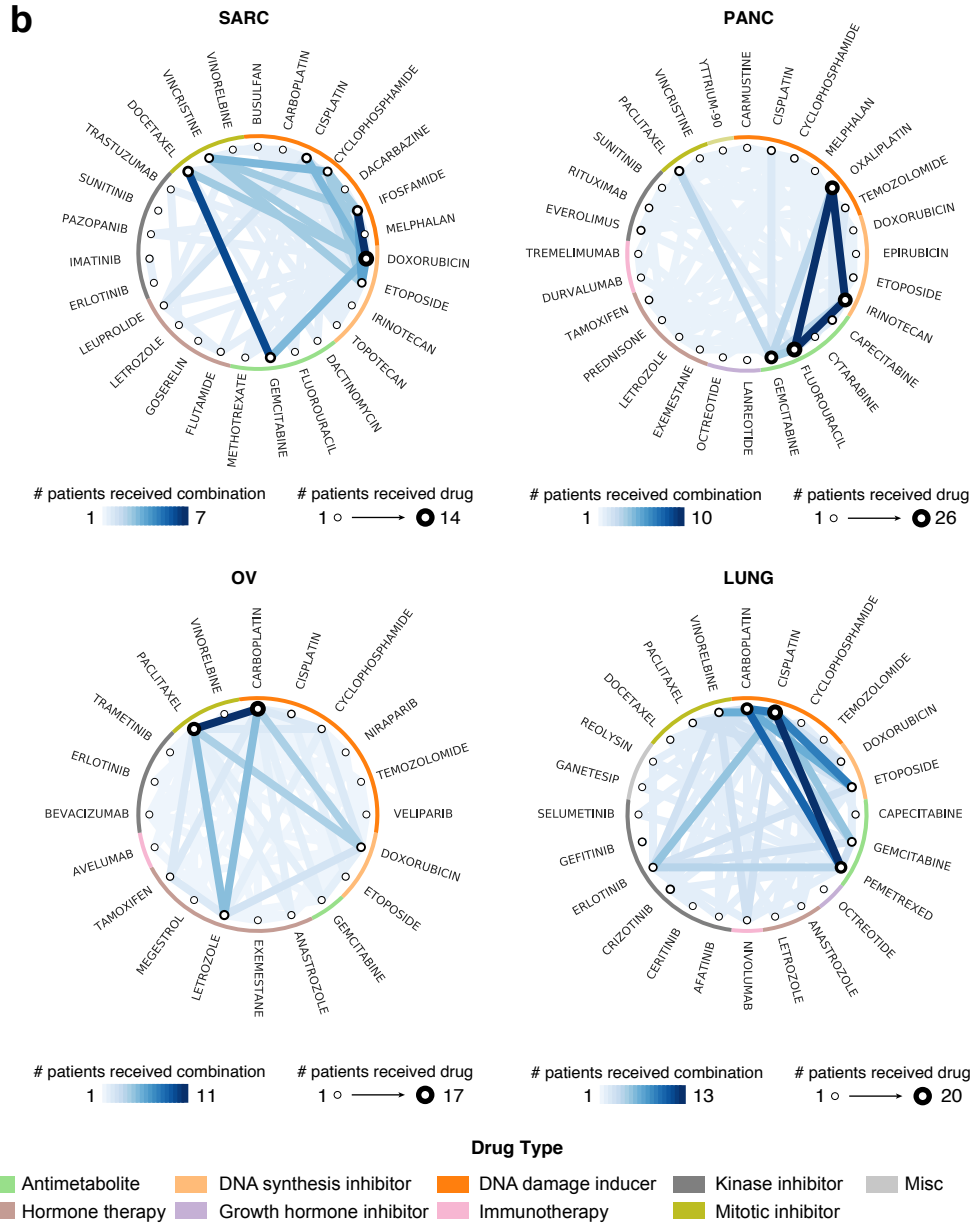
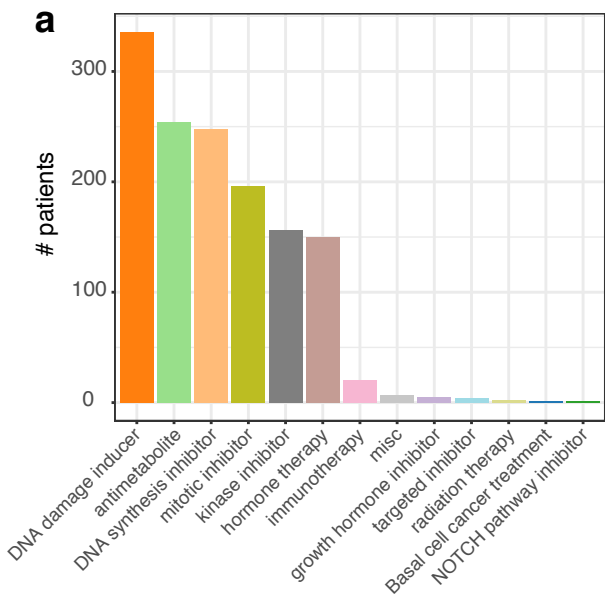
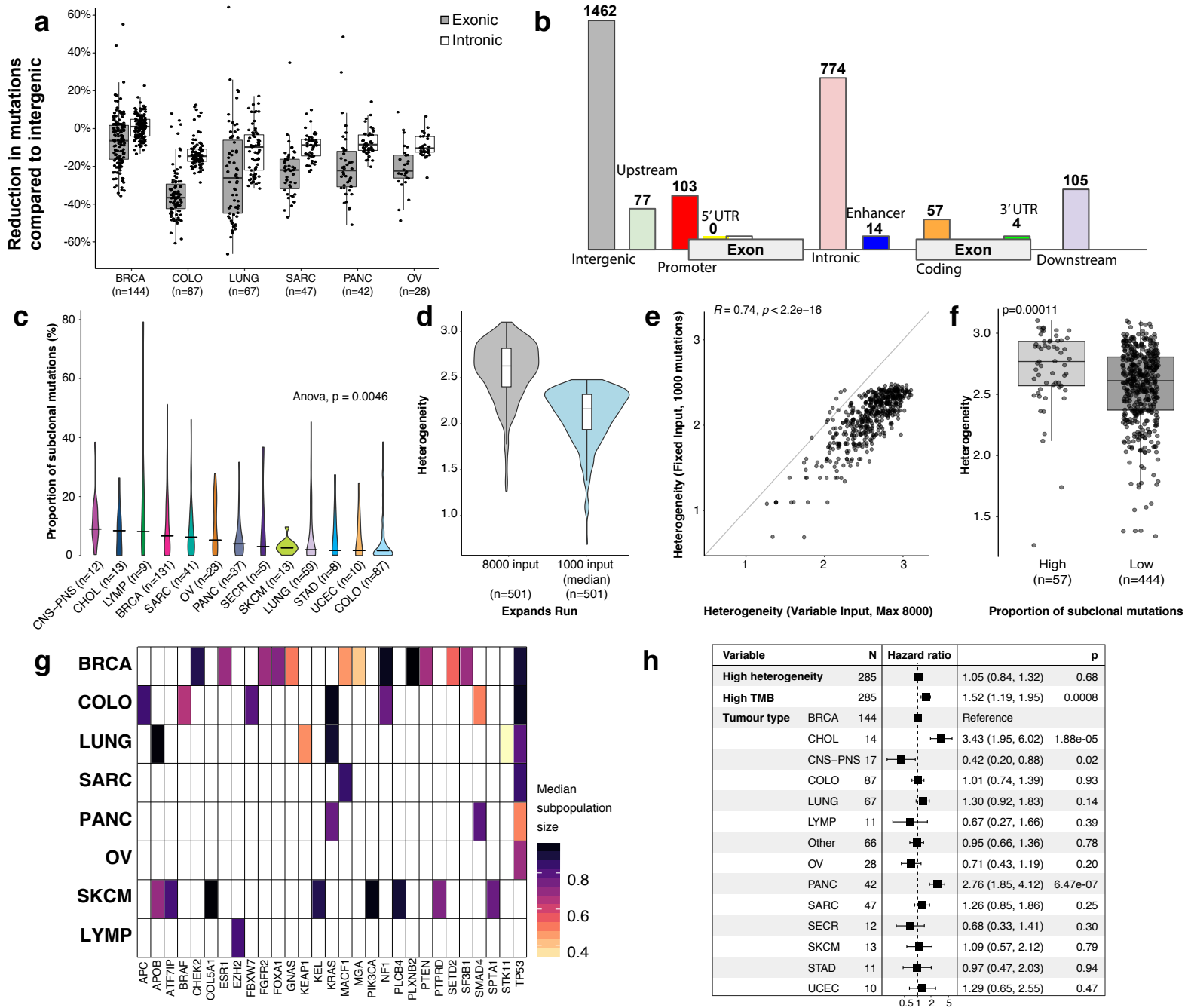


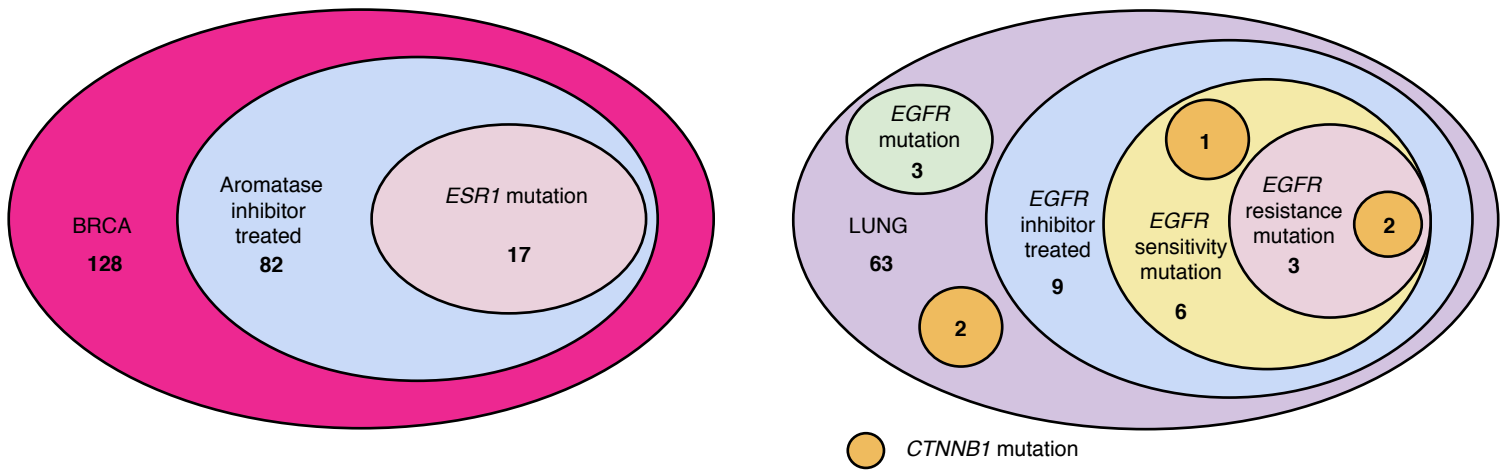
Extended Data Figure 1



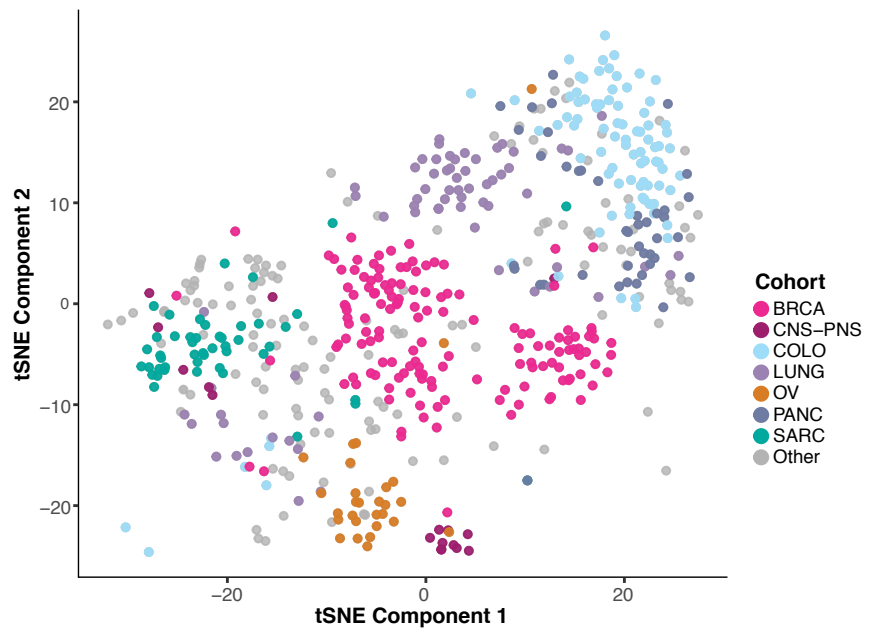
Extended Data Figure 2



a

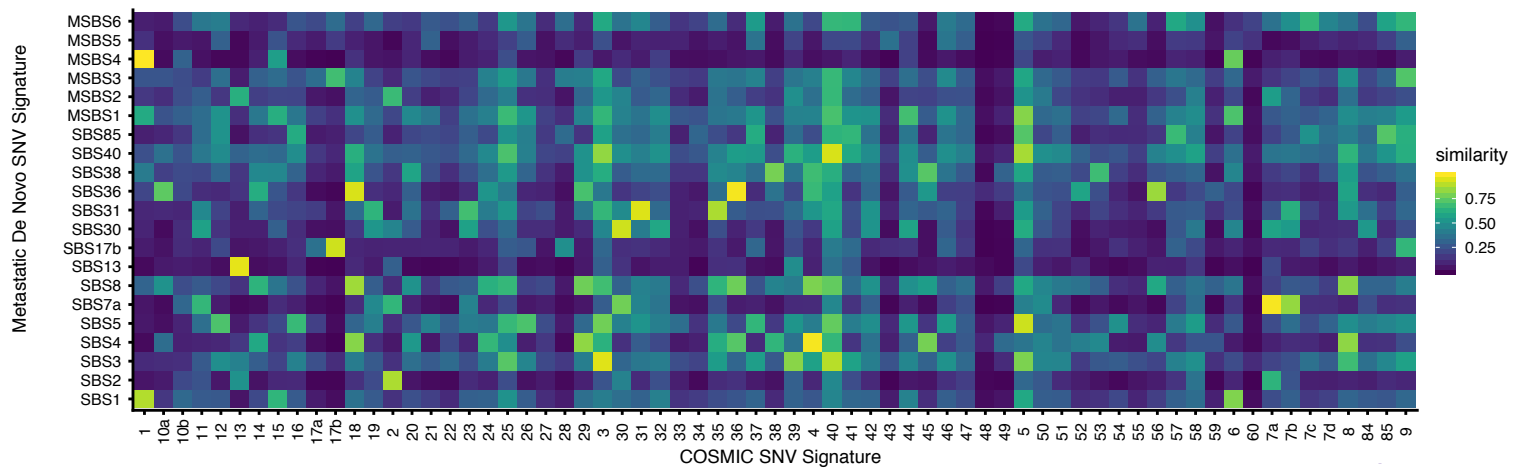


b

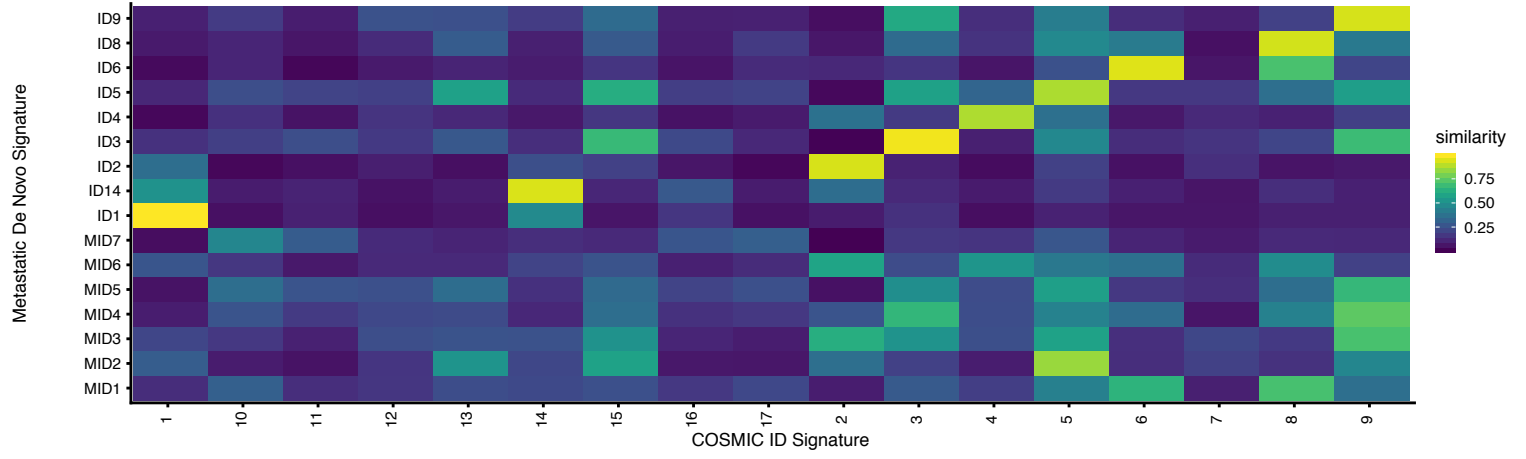


Extended Data Figure 4

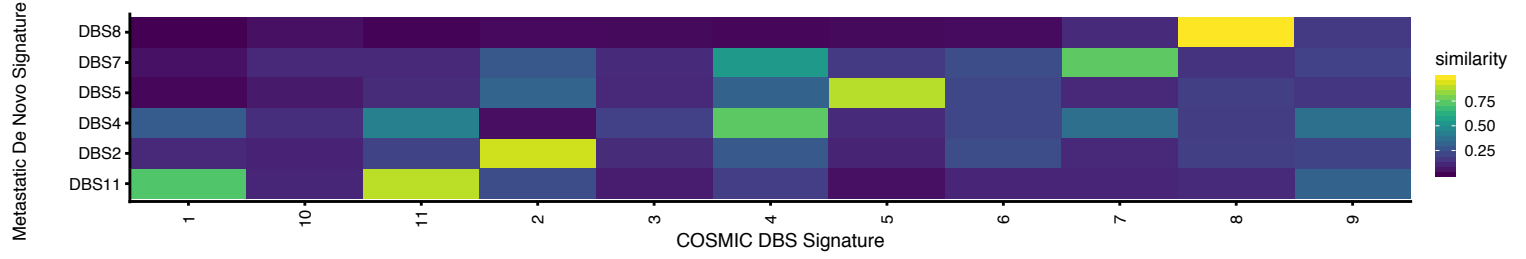
a



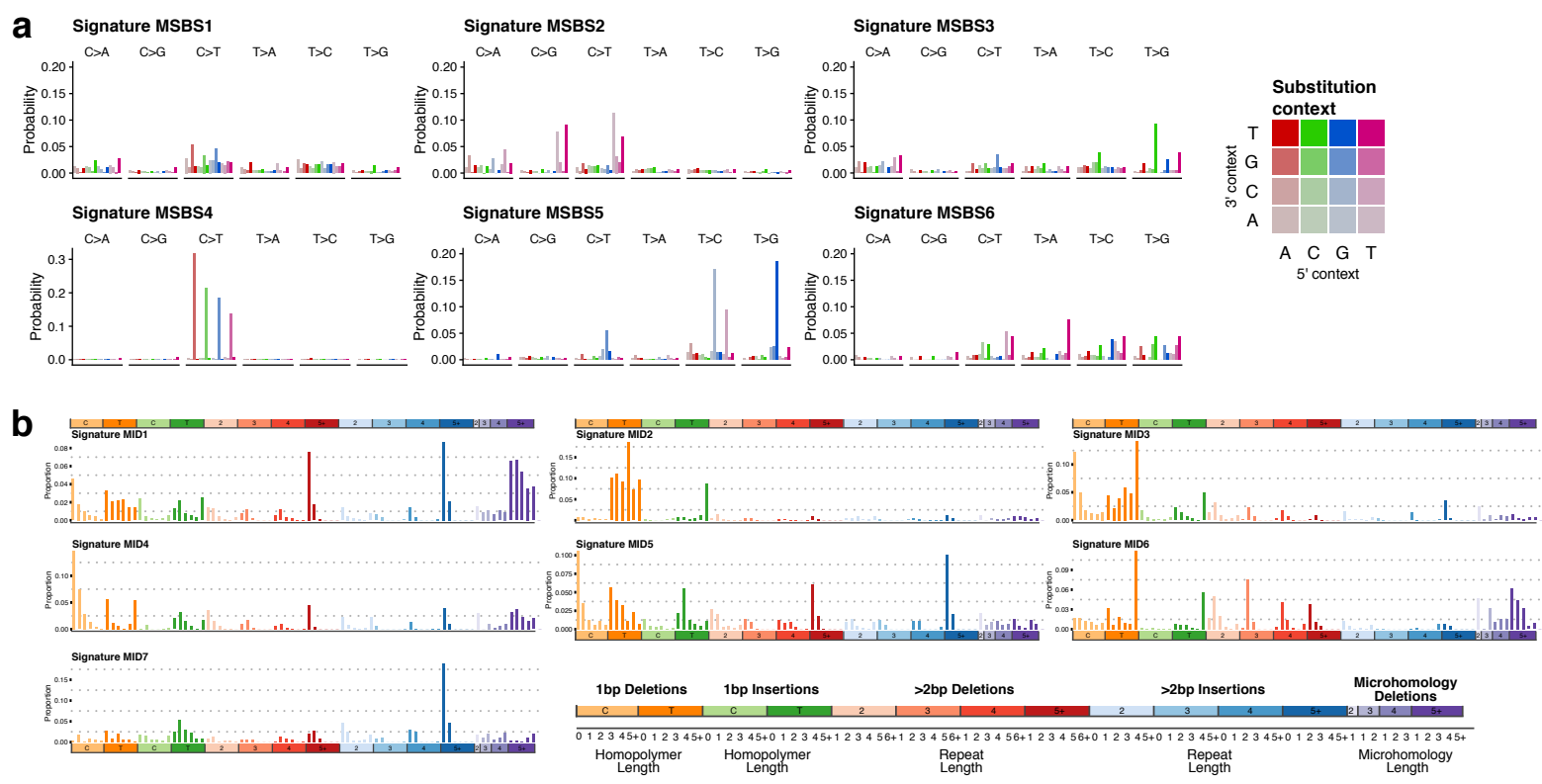
b



c

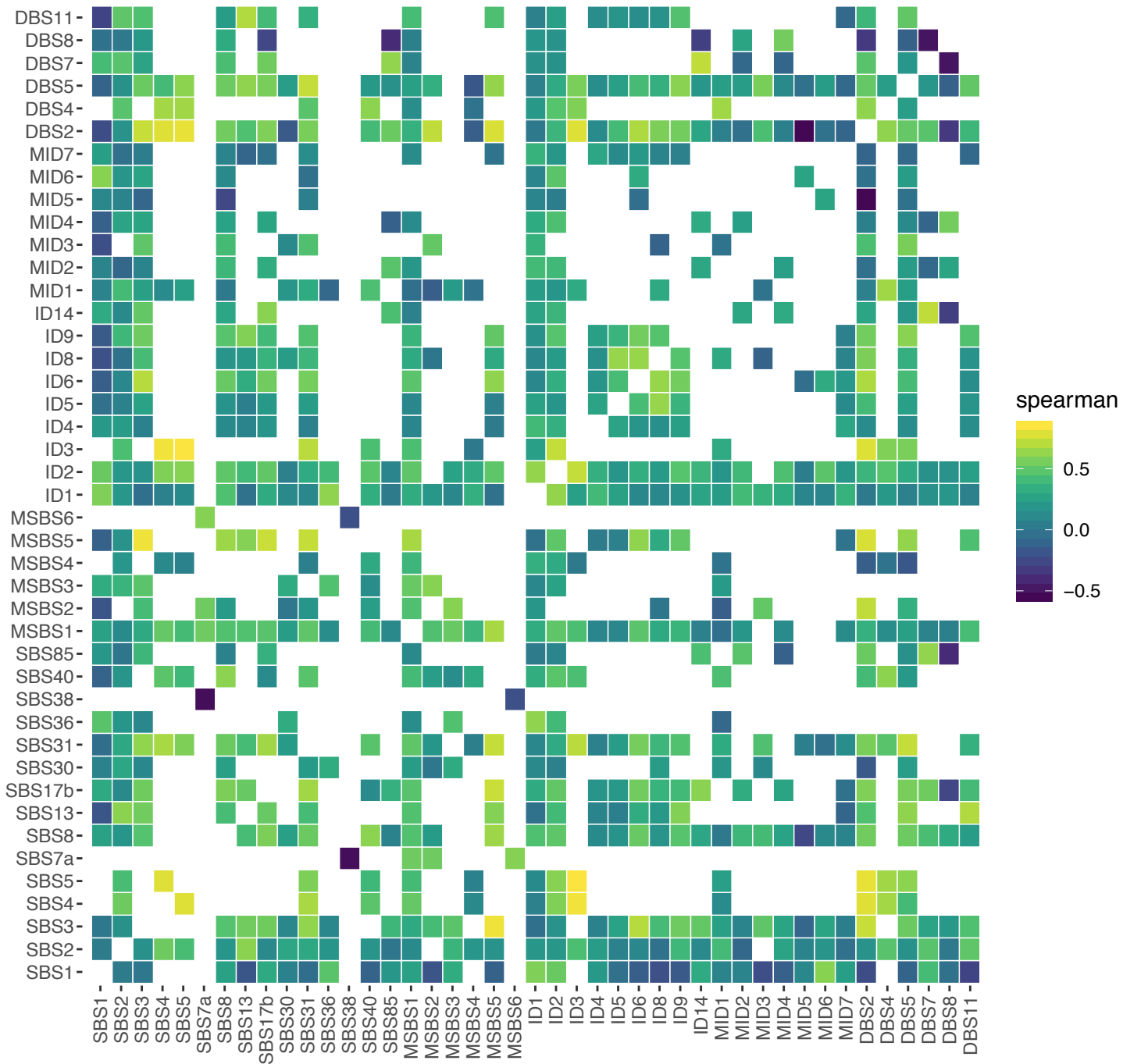


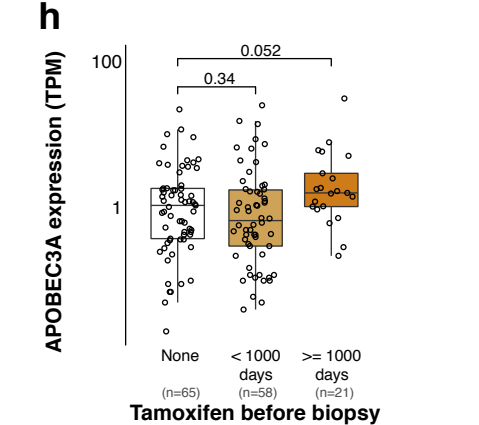
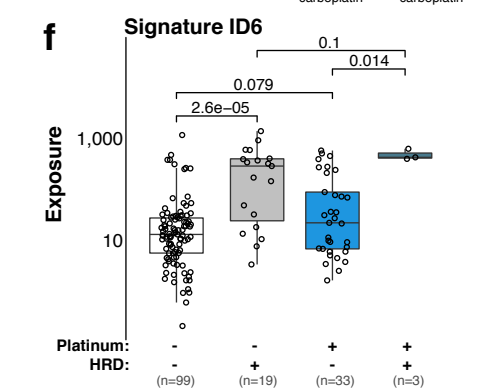
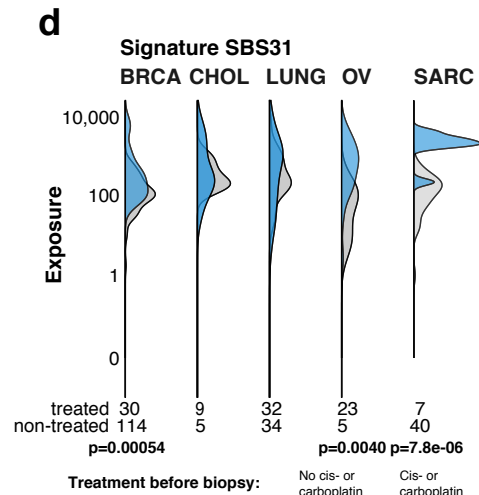
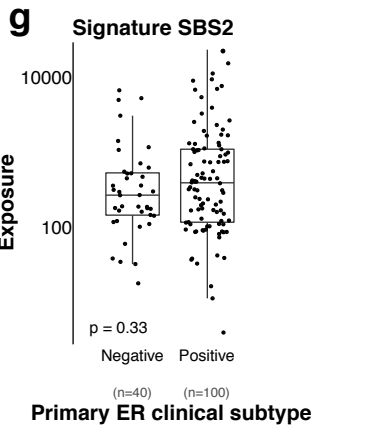
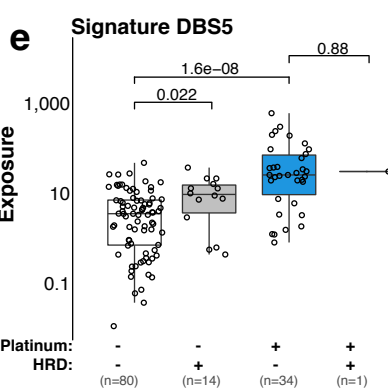
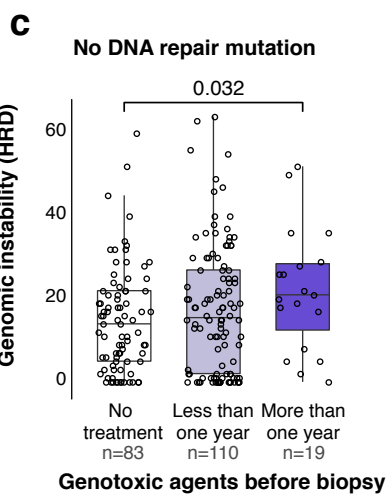
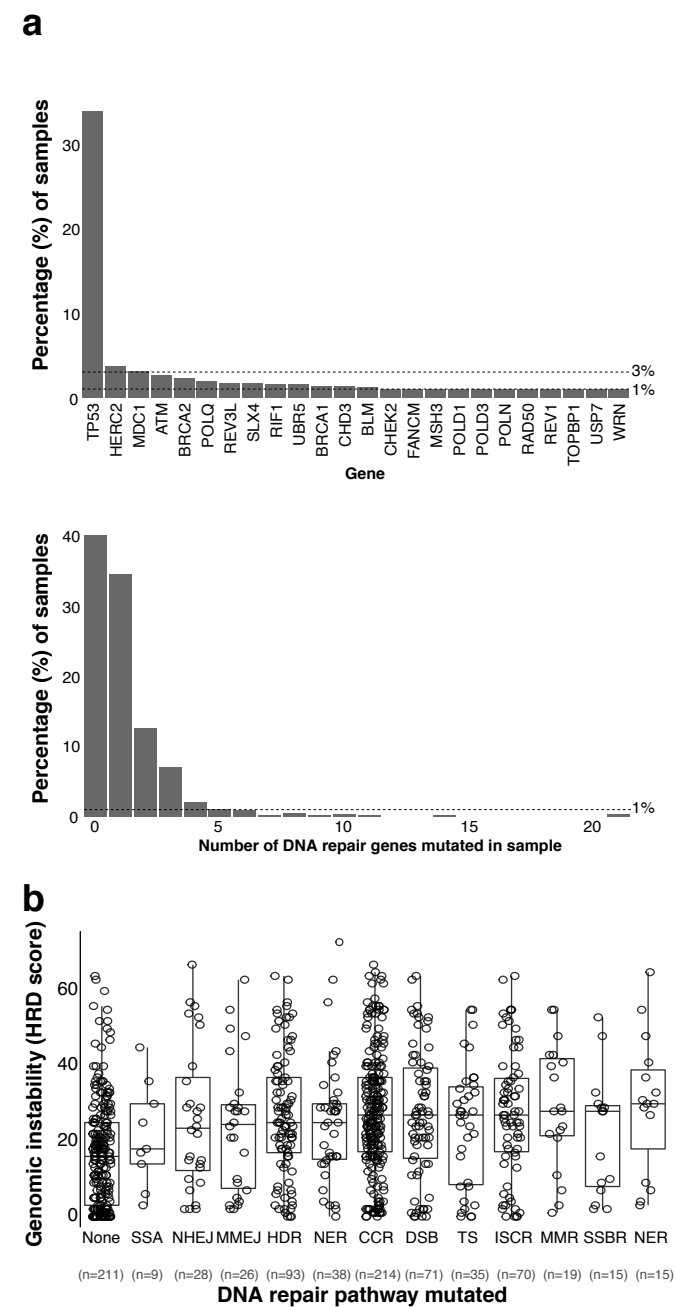
Extended Data Figure 5



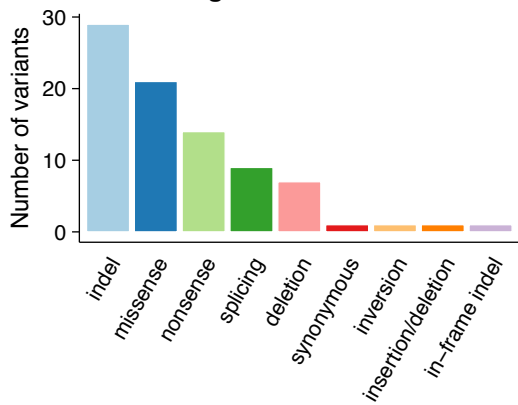
Extended Data Figure 6

a

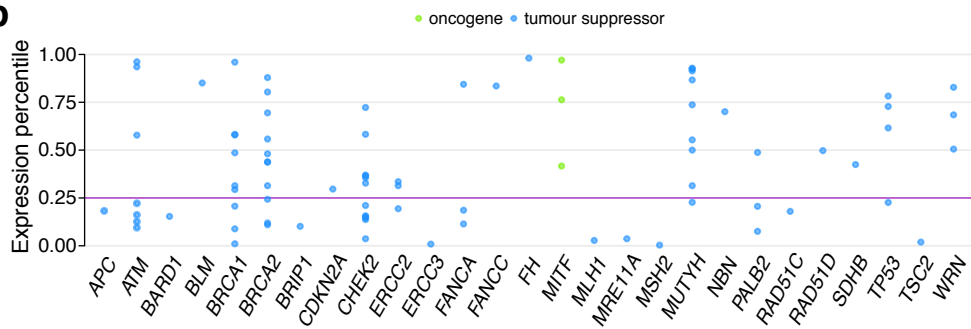




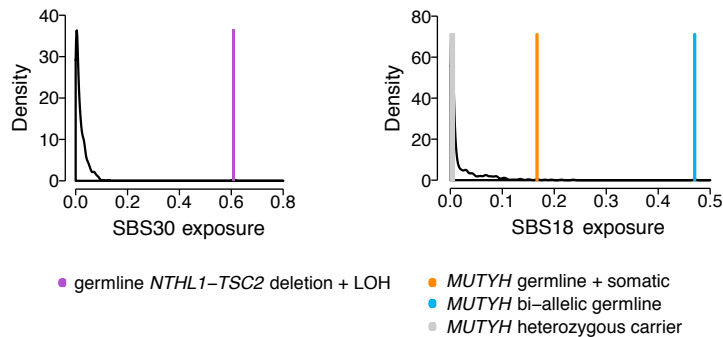
a Extended Data Figure 8



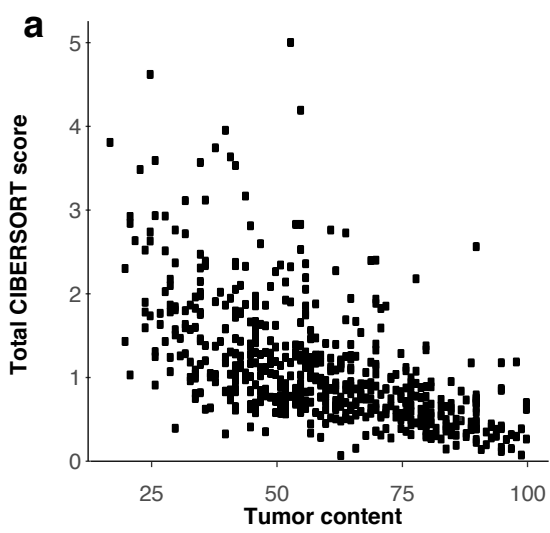
b



c



Extended Data Figure 9



b

Variable	N	Hazard ratio	Reference	p
cluster			Reference	
1	84			
2	131	0.72 (0.52, 1.00)		0.047
3	50	0.66 (0.43, 1.01)		0.056
4	114	0.76 (0.55, 1.05)		0.100
5	36	0.40 (0.23, 0.70)		0.001
6	68	0.83 (0.57, 1.23)		0.355
7	29	1.08 (0.66, 1.77)		0.773
8	56	0.93 (0.63, 1.38)		0.723
Tumour type			Reference	
BRCA	144			
CHOL	14	2.78 (1.55, 5.00)		0.00062
CNS-PNS	17	0.36 (0.17, 0.75)		0.007
COLO	87	1.10 (0.80, 1.51)		0.562
LUNG	67	1.24 (0.87, 1.77)		0.234
LYMP	11	0.90 (0.35, 2.29)		0.829
Other	66	0.91 (0.63, 1.31)		0.597
OV	28	0.68 (0.40, 1.14)		0.144
PANC	41	1.98 (1.30, 3.01)		0.001
SARC	46	1.16 (0.78, 1.71)		0.468
SECR	12	0.55 (0.26, 1.15)		0.112
SKCM	13	1.36 (0.71, 2.62)		0.351
STAD	11	0.85 (0.40, 1.80)		0.671
UCEC	11	1.22 (0.63, 2.36)		0.556
Low tumour content	191	1.25 (1.00, 1.57)		0.050

