

Table 1: Univariate and multivariate Cox regression analysis of the 72 features of breast cancer.

Features	Univariate Cox analysis			Multivariate Cox analysis		
	Coef_Uni	HR(95%CI)_Uni	P_Uni	Coef_Mul	HR(95%CI)_Mul	P_Mul
AAK1	0.014	1.01 (0.95-1.08)	0.680			
ADH7	0.008	1.01 (0.95-1.07)	0.796			
ADRB1	-0.069	0.93 (0.88-0.99)	0.025	-0.068	0.93 (0.88 - 1)	0.037
ALDH3A1	-0.015	0.99 (0.92-1.06)	0.669			
APC2	0.028	1.03 (0.97-1.09)	0.362			
APOBEC3D	-0.011	0.99 (0.93-1.06)	0.742			
ARID1B	-0.014	0.99 (0.92-1.05)	0.673			
BCL2A1	-0.009	0.99 (0.93-1.05)	0.766			
BMPR1A	-0.069	0.93 (0.87-1)	0.040	0.035	1.04 (0.95 - 1.12)	0.402
C1orf226	0.025	1.03 (0.96-1.09)	0.450			
C20orf85	-0.032	0.97 (0.91-1.03)	0.317			
CEL	0.037	1.04 (0.96-1.12)	0.322			
CGA	0.087	1.09 (1.02-1.16)	0.008	0.063	1.07 (1 - 1.14)	0.068
CHGA	0.0005	1 (0.94-1.07)	0.988			
CLCNKB	0.064	1.07 (1-1.14)	0.069			
CRIL	-0.032	0.97 (0.91-1.03)	0.283			
DCUN1D4	-0.094	0.91 (0.85-0.97)	0.005	-0.039	0.96 (0.89 - 1.04)	0.321
DERL1	-0.069	0.93 (0.87-1)	0.045	-0.064	0.94 (0.87 - 1.01)	0.084
EIF4E1B	0.003	1 (0.94-1.07)	0.924			
ESRRG	-0.043	0.96 (0.9-1.02)	0.184			
FGF6	-0.068	0.93 (0.86-1.01)	0.101			
FGF7	-0.049	0.95 (0.89-1.02)	0.149			
FOXQ1	0.017	1.02 (0.95-1.09)	0.614			
GABRA1	-0.006	0.99 (0.93-1.06)	0.862			
GAL3ST2	0.025	1.03 (0.96-1.1)	0.446			
GP1BA	-0.008	0.99 (0.93-1.06)	0.813			
HES3	-0.043	0.96 (0.86-1.06)	0.414			
HES5	0.007	1.01 (0.94-1.07)	0.836			
HLA-G	0.065	1.07 (1-1.14)	0.045	0.030	1.03 (0.96 - 1.1)	0.403
IGFBPL1	0.025	1.03 (0.96-1.09)	0.432			
KDM6A	0.006	1.01 (0.95-1.07)	0.842			
KLHDC7B	-0.020	0.98 (0.92-1.04)	0.518			
KRT15	-0.002	1 (0.94-1.07)	0.963			
LRRC14B	-0.022	0.98 (0.92-1.04)	0.494			
MAFA	0.051	1.05 (0.98-1.13)	0.143			
MAL2	-0.061	0.94 (0.88-1.01)	0.074			
MID2	-0.095	0.91 (0.85-0.97)	0.003	-0.073	0.93 (0.86 - 1)	0.057
MT3	0.046	1.05 (0.98-1.11)	0.150			
NFKB2	-0.002	1 (0.94-1.06)	0.941			
NR1H4	-0.002	1 (0.94-1.05)	0.933			
NRAS	-0.051	0.95 (0.89-1.01)	0.128			
PARP3	-0.020	0.98 (0.92-1.05)	0.540			
PCMT1	0.020	1.02 (0.96-1.09)	0.548			
PGK1	0.054	1.06 (0.99-1.13)	0.109			
PIGR	-0.047	0.95 (0.89-1.02)	0.163			
PLXND1	0.064	1.07 (1-1.14)	0.061			
PSME1	0.019	1.02 (0.95-1.09)	0.570			
PSME2	-0.003	1 (0.93-1.06)	0.917			
PTGES3	0.013	1.01 (0.95-1.08)	0.713			
RAB18	-0.077	0.93 (0.87-0.99)	0.019	-0.029	0.97 (0.9 - 1.05)	0.456
RAPGEFL1	-0.012	0.99 (0.93-1.05)	0.712			
SAV1	-0.136	0.87 (0.82-0.93)	0.000	-0.090	0.91 (0.85 - 0.98)	0.016
SEL1L2	-0.038	0.96 (0.9-1.03)	0.252			
SERPINA1	-0.019	0.98 (0.92-1.04)	0.555			
SFRP4	0.013	1.01 (0.95-1.08)	0.684			
SFTPB	-0.001	1 (0.94-1.06)	0.981			
SHBG	-0.001	1 (0.94-1.07)	0.973			
SIX2	0.001	1 (0.94-1.07)	0.980			
SLC20A2	-0.010	0.99 (0.93-1.06)	0.767			
STAG3	-0.056	0.95 (0.88-1.01)	0.098			
TAPBPL	0.027	1.03 (0.96-1.09)	0.415			
TBX4	-0.027	0.97 (0.91-1.04)	0.411			
TNNI3	0.065	1.07 (1-1.14)	0.047	0.035	1.04 (0.97 - 1.11)	0.299
TRDN	-0.035	0.97 (0.9-1.03)	0.312			
TRMT2B	-0.070	0.93 (0.87-0.99)	0.033	-0.010	0.99 (0.92 - 1.06)	0.785
TSPAN14	-0.103	0.9 (0.84-0.96)	0.002	-0.105	0.9 (0.84 - 0.97)	0.004
TWIST1	0.043	1.04 (0.97-1.12)	0.220			
TYRP1	0.021	1.02 (0.96-1.09)	0.533			
UPK1B	0.052	1.05 (0.99-1.12)	0.093			
WNT11	0.014	1.01 (0.95-1.08)	0.655			
WNT3A	0.099	1.1 (1.03-1.18)	0.004	0.066	1.07 (0.99 - 1.15)	0.070
WWOX	0.022	1.02 (0.96-1.09)	0.505			