

	GSE1456	GSE1992	GSE4335	Vijver	GSE2034	GSE2990	GSE4922	Merged-ComBat*
GSE1456	NA	3.11(1.58-6.12) p=0.001	2.38(1.27-4.44) p=0.0063	7.82(3.28-18.67) p=3.60e-06	3.73(1.89-7.34) p=0.0001	6.88(2.69-17.59) p=5.56e-05	4.60(2.11-9.99) p=0.0001	6.19(2.85-13.45) p=4.22e-06
GSE1992	2.30(1.12-4.71) p=0.022	NA	2.63(1.31-5.25) p=0.0061	2.58(1.24-5.39) p=0.011	3.02(1.47-6.19) p=0.0025	2.82(1.23-6.47) p=0.014	2.20(1.05-4.59) p=0.035	2.90(1.41-5.94) p=0.0035
GSE4335	$p \geq 0.05$	$p \geq 0.05$	NA	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$
Vijver	3.94(2.5-6.21) p=3.45e-09	2.94(1.95-4.42) p=2.65e-07	2.22(1.51-3.28) p=5.60e-05	NA	2.68(1.79-4.01) p=1.83e-06	3.6(2.27-5.72) p=5.45e-08	2.48(1.66-3.7) p=9.40e-06	3.08(2.05-4.61) p=5.25e-08
GSE2034	1.83(1.23-2.74) p=0.0027	1.86(1.26-2.73) p=0.0015	$p \geq 0.05$	1.80(1.22-2.65) p=0.003	NA	1.80(1.22-2.65) p=0.0029	1.85(1.23-2.77) p=0.0037	1.83(1.24-2.69) p=0.002
GSE2990	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$	$p \geq 0.05$	NA	$p \geq 0.05$	$p \geq 0.05$
GSE4922	2.50(1.60-3.89) p=4.7e-05	$p \geq 0.05$	1.72(1.13-2.61) p=0.011	2.15(1.41-3.27) p=0.0003	1.99(1.31-3.04) p=0.0013	2.54(1.62-3.96) p=4.3e-05	NA	2.36(1.55-3.61) p=7.1e-05

Table S5: HR of breast cancer predictors trained on the individual and combined data sets (adjusted by ComBat) with respect to RFS. Significant HR ($p < 0.05$) are shown in bold. The training sets are listed in the column header and the testing sets are indicated in the row header of the table. * indicates that the predictor was trained from all data sets except the testing set. NA stands for Not Available.