

Table S16. Multivariate cox regression analysis of previously reported prognostic genes for glioma in training and validation cohorts of other tumors.

Tumor type	Cohort	Covariate	35 genes		44 genes		47 genes		
			P value	HR (CI95%)	P value	HR (CI95%)	P value	HR (CI95%)	
Breast	GIS	cluster	0.141	1.35 (0.91-2.01)	0.16	1.17 (0.94-1.45)	0.666	1.16 (0.60-2.25)	
		grade	0.002	1.93 (1.28-2.91)	0.02	1.72 (1.09-2.73)	0.001	2.09 (1.37-3.19)	
		age	0.965	1.00 (0.98-1.02)	0.925	1.01 (0.98-1.02)	0.997	1.00 (0.98-1.02)	
	CRCM	cluster	<0.0001	2.34 (1.59-3.44)	0.003	1.63 (1.18-2.25)	<0.0001	5.36 (2.60-11.09)	
		grade	<0.0001	3.75 (2.09-6.73)	<0.0001	2.93 (1.69-5.07)	<0.0001	4.18 (2.28-7.66)	
		age	0.916	1.01 (0.97-1.04)	0.974	1.00 (0.97-1.03)	0.731	1.00 (0.96-1.03)	
	SUSM	cluster	0.077	1.37 (0.99-1.90)	0.089	1.25 (0.97-1.62)	0.293	1.29 (0.81-2.05)	
		grade	<0.0001	2.42 (1.70-3.46)	<0.0001	2.28 (1.57-3.32)	<0.0001	2.48 (1.72-3.56)	
		age	0.022	0.96 (0.92-0.99)	0.019	0.96 (0.91-0.99)	0.022	0.96 (0.92-0.99)	
	Lung	NCI	cluster	0.656	1.09 (0.74-1.62)	0.001	1.59 (1.20-2.11)	0.099	1.87(0.89-3.91)
		EMC	cluster	0.036	1.34 (1.02-1.75)	0.062	1.16 (0.99-1.36)	0.339	1.24 (0.80-1.91)
		DFCI	cluster	0.276	1.24 (0.84-1.83)	0.14	1.28 (0.92-1.79)	0.86	1.07 (0.52-2.20)
stage			0.099	1.96 (0.88-4.37)	0.072	2.14 (0.93-4.88)	0.133	1.85(0.83-4.12)	
age			0.104	1.03 (0.99-1.07)	0.203	1.03 (0.99-1.07)	0.091	1.03 (1.00-1.08)	
PCH		cluster	0.092	1.59 (0.93-2.72)	0.126	1.35 (0.92-1.99)	0.564	1.28 (0.56-2.92)	
		age	0.262	1.02 (0.98-1.06)	0.216	1.03 (0.98-1.07)	0.346	1.02 (0.98-1.06)	
CAN/DF		cluster	0.854	1.06 (0.59-1.88)	0.349	1.15 (0.86-1.52)	0.942	1.03 (0.50-2.12)	
		stage	0.003	2.82 (1.43-5.54)	0.004	2.71 (1.37-5.53)	0.003	2.82 (1.44-5.55)	
		age	0.002	1.07 (1.03-1.12)	0.001	1.07 (1.03-1.12)	0.002	1.07 (1.03-1.12)	
MSK		cluster	0.019	2.06 (1.13-3.77)	0.301	1.23 (0.83-1.84)	0.325	1.55 (0.65-3.70)	
		stage	0.342	1.56 (0.62-3.92)	0.187	1.84 (0.74-4.54)	0.253	1.71 (0.68-4.30)	
	age	0.759	1.01 (0.96-1.06)	0.388	1.02 (0.97-1.07)	0.454	1.02 (0.97-1.07)		
UM-HLM	cluster	0.773	1.04 (0.82-1.13)	0.713	1.04 (0.83-1.31)	0.231	1.26 (0.86-1.85)		
	stage	<0.0001	2.31 (1.56-3.42)	<0.0001	2.31 (1.56-3.42)	<0.0001	2.31 (1.57-3.42)		
	age	0.002	1.03 (1.01-1.05)	0.002	1.02 (1.01-1.05)	0.003	1.03 (1.01-1.05)		
Bladder	AUH	cluster	0.587	1.13 (0.73-1.76)	0.27	1.25 (0.84-1.84)	0.882	1.07 (0.46-2.46)	
Ovarium	MNI	cluster	0.015	2.24 (1.17-4.29)	0.01	1.99 (1.18-3.36)	0.082	2.77 (0.88-8.70)	
		age	0.044	1.07 (1.01-1.14)	0.059	1.06 (1.00-1.13)	0.066	1.06 (1.00-1.13)	

The direction of the hazard ratio are as follows: cluster, the short-term versus long-term survival group; grade, lower versus higher; age, older versus younger.