

Supplementary Table 2. Common genetic alterations and overall survival of 50 adult brainstem glioma patients

Patient no.	Diagnosis	Status	Survival time (months)	IDH1/2	MGMT promoter	1p	19q	TERT promoter	ATRX	TP53	PTEN	EGFR	NF1	RB1	PIK3CA	MSH2	MSH6	EGFR amp*	PDGFR amp	MET amp	CDK4 amp	
1	PA	Alive	38.0			LOH																
2	DA	Dead	18.0									Mut	Mut	Mut								
3	DA	Dead	22.0	Mut	Methylated	LOH				Loss	Mut											
4	DA	Dead	29.0	Mut																		
5	DA	Dead	28.0		Methylated	LOH					Mut	Mut										
6	DA	Alive	32.0				LOH				Mut								3.0		6.0	
7	DA	Dead	34.0	Mut		LOH					Mut											
8	DA	Dead	36.0			LOH	LOH							Mut	Mut							
9	DA	Alive	40.0	Mut							Mut											
10	DA	Dead	42.0							Mut												
11	O	Alive	33.0			LOH	LOH	Mut														
12	O	Dead	41.0	Mut	Methylated	LOH	LOH															
13	AA	Dead	11.0			LOH	LOH	Mut			Mut	Mut			Mut							
14	AA	Dead	6.1								Mut	Mut			Mut							
15	AA	Dead	17.5		Methylated		LOH				Mut	Mut							6.0		10.0	
16	AA	Dead	13.0			LOH		Mut			Mut											
17	AA	Dead	13.5				LOH			Mut	Mut			Mut								
18	AA	Dead	16.2		Methylated														2.7		8.0	
19	AA	Dead	17.0			LOH		Loss	Mut	Mut				Mut		Mut					6.5	
20	AA	Dead	19.0		Methylated	LOH		Mut			Mut											
21	AA	Dead	24.5		Methylated		LOH	Mut						Mut	Mut							
22	AA	Dead	21.0	Mut	Methylated				Loss	Mut						Mut						
23	AA	Alive	26.0				LOH		Loss	Mut				Mut			Mut					
24	AA	Alive	32.0					Loss	Mut				Mut		Mut							
25	GBM	Dead	0.5			LOH	LOH			Mut	Mut				Mut							
26	GBM	Dead	2.0				LOH	Mut											2.0		11.0	
27	GBM	Dead	2.5		Methylated			Mut								Mut				2.1		
28	GBM	Dead	3.1			LOH				Mut											10.0	
29	GBM	Dead	4.0							Mut									7.7			
30	GBM	Dead	4.5			LOH																
31	GBM	Dead	5.0			LOH		Mut			Mut								7.1			
32	GBM	Dead	7.8					Mut														
33	GBM	Dead	8.0		Methylated														7.0			
34	GBM	Dead	9.0					Mut			Mut				Mut							
35	GBM	Dead	9.5	Mut		LOH				Mut												
36	GBM	Dead	10.0		Methylated																	
37	GBM	Dead	10.3			LOH				Mut	Mut			Mut								
38	GBM	Dead	11.0		Methylated			Mut			Mut								12.0			
39	GBM	Dead	11.4			LOH	LOH	Mut		Mut	Mut											
40	GBM	Dead	12.0						Mut	Mut				Mut								
41	GBM	Dead	12.2				LOH									Mut						
42	GBM	Dead	12.5							Mut	Mut	Mut	Mut		Mut		Mut					
43	GBM	Dead	14.5					Mut		Mut	Mut								5.0			
44	GBM	Alive	16.0		Methylated	LOH	LOH				Mut											
45	GBM	Dead	17.0							Mut		Mut										
46	GBM	Dead	19.6								Mut											
47	DMLG	Dead	3.5		Methylated	LOH										Mut						
48	DMLG	Dead	7.2		Methylated	LOH	LOH															
49	DMLG	Dead	7.5		Methylated					Mut	Mut								10.6			
50	DMLG	Dead	13.0							Mut												

*Relative change in gene amplification.

AA: anaplastic astrocytoma, amp: amplification, DA: diffuse astrocytoma, DMLG: diffuse midline glioma, GBM: glioblastoma, LOH: loss of heterozygosity, Mut: mutated, O: oligodendrogloma, PA: pilocytic astrocytoma.