

Table S1. Odds Ratios and 95%CI for DNA repair SNPs and risk of glioblastoma by center, Glioblastoma Collaborative Group, 2008.

Gene SNP	Center	heterozygote		homozygote		p-int <sup>b</sup>
		OR <sup>a</sup>	(95% CI)	OR <sup>a</sup>	(95% CI)	
<i>Base Excision Repair</i>						
<b>APEX1 rs1130409</b>						
	MDA	1.47	(0.95, 2.28)	1.25	(0.75, 2.06)	p-int <sup>b</sup> =0.43
	NCI	0.84	(0.53, 1.31)	0.72	(0.42, 1.25)	
	NIOSH	0.91	(0.57, 1.44)	0.91	(0.53, 1.57)	
	UCSF	1.15	(0.88, 1.52)	1.09	(0.77, 1.54)	
<b>OGG1 rs1052133</b>						
	MDA	1.04	(0.71, 1.51)	1.00	(0.47, 2.16)	p-int=0.43
	NCI	0.67	(0.44, 1.03)	1.28	(0.61, 2.70)	
	NIOSH	1.20	(0.80, 1.82)	0.79	(0.31, 1.98)	
	UCSF	0.96	(0.75, 1.23)	0.74	(0.42, 1.29)	
<b>PARP1 rs1136410</b>						
	MDA	0.76	(0.51, 1.12)	0.81	(0.29, 2.28)	p-int=0.82
	NCI	0.83	(0.54, 1.26)	0.30	(0.07, 1.38)	
	NIOSH	0.77	(0.49, 1.20)	1.12	(0.43, 2.95)	
	UCSF	0.77	(0.59, 1.01)	0.92	(0.39, 2.20)	
<b>XRCC1 rs25487</b>						
	MDA	1.39	(0.94, 2.04)	1.79	(1.07, 3.01)	p-int=0.37
	NCI	1.13	(0.75, 1.69)	0.90	(0.51, 1.59)	
	NIOSH	1.52	(1.00, 2.33)	1.57	(0.87, 2.83)	
	UCSF	0.95	(0.74, 1.22)	1.03	(0.70, 1.51)	
<b>XRCC1 rs1799782</b>						
	MDA	0.89	(0.53, 1.47)	0.45	(0.04, 4.74)	p-int=0.94
	NCI	0.95	(0.57, 1.59)	--	--	
	NIOSH	1.02	(0.52, 2.01)	--	--	
	UCSF	0.81	(0.56, 1.18)	2.21	(0.20, 24.6)	
<i>Direct Repair</i>						
<b>MGMT rs12917</b>						
	MDA	0.63	(0.40, 0.98)	1.12	(0.34, 3.72)	p-int=0.68
	NCI	0.90	(0.57, 1.410)	1.50	(0.48, 4.66)	

*Non Homologous End Joining*  
**PRKDC** rs7003908

NIOSH	0.85	(0.53, 1.36)	0.68	(0.14, 3.33)	
UCSF	1.03	(0.78, 1.38)	1.39	(0.51, 3.77)	
MDA	0.96	(0.66, 1.40)	1.18	(0.69, 2.03)	p-int=0.81
NCI	0.91	(0.60, 1.39)	1.19	(0.63, 2.24)	
NIOSH	1.09	(0.71, 1.68)	1.38	(0.79, 2.42)	
UCSF	1.18	(0.91, 1.51)	1.78	(1.23, 2.59)	

*Nucleotide Excision Repair*

**ERCC1** rs3212986

MDA	1.06	(0.73, 1.55)	1.39	(0.65, 2.96)	p-int=0.18
NCI	0.83	(0.55, 1.26)	0.44	(0.14, 1.39)	
NIOSH	1.25	(0.84, 1.87)	0.65	(0.24, 1.75)	
UCSF	0.93	(0.72, 1.19)	1.4	(0.85, 2.30)	

**ERCC2** rs13181

MDA	1.24	(0.85, 1.82)	1.18	(0.68, 2.05)	p-int=0.96
NCI	1.19	(0.79, 1.78)	1.19	(0.06, 2.12)	
NIOSH	1.31	(0.86, 1.99)	1.13	(0.61, 2.10)	
UCSF	1.08	(0.84, 1.39)	1.25	(0.86, 1.81)	

**ERCC5** rs17655

MDA	0.87	(0.37, 2.04)	0.69	(0.30, 1.58)	p-int=0.82
NCI	1.15	(0.76, 1.72)	1.08	(0.49, 2.41)	
NIOSH	0.92	(0.62, 1.39)	1.03	(0.48, 2.22)	
UCSF	1.03	(0.81, 1.33)	0.89	(0.51, 1.55)	

**GLTSCR1** rs1035938

MDA	0.92	(0.64, 1.34)	1.04	(0.55, 1.97)	p-int=0.53
NCI	0.94	(0.62, 1.41)	1.09	(0.50, 2.38)	
NIOSH	0.92	(0.62, 1.39)	1.03	(0.48, 2.22)	
UCSF	1.28	(1.00, 1.64)	1.53	(0.98, 2.40)	

**RAD23B** rs1805329

MDA	0.82	(0.56, 1.21)	0.56	(0.22, 1.41)	p-int=0.33
NCI	0.89	(0.57, 1.39)	0.59	(0.21, 1.69)	
NIOSH	1.44	(0.95, 2.18)	0.53	(0.15, 1.82)	
UCSF	0.82	(0.63, 1.07)	0.91	(0.51, 1.63)	

Odds Ratios and 95%CI for DNA repair SNPs and risk of glioblastoma by age of diagnosis

SNP	genotype	Age of diagnosis <50 years		Age of diagnosis 50+ years		p-trend
		OR	95%CI	OR	95%CI	
PARP1 rs1136410	TT	Ref		Ref		
	CT	0.93	(0.68, 1.27)	0.72	(0.57, 0.89)	
	CC	1.20	(0.56, 2.55)	0.59	(0.29, 1.17)	p-trend=0.001
PRKDC rs7003908	TT	Ref		Ref		
	GT	1.04	(0.77, 1.40)	1.11	(0.90, 1.38)	
	GG	1.45	(0.97, 2.18)	1.46	(1.07, 1.99)	p-trend=0.02
ERCC2 rs13181	AA	Ref		Ref		
	AC	1.17	(0.87, 1.56)	1.19	(0.96, 1.47)	
	CC	0.92	(0.58, 1.45)	1.36	(1.01, 1.84)	p-trend=0.03

<sup>a</sup>adjusted for age, gender and study center.

<sup>b</sup>p-interaction is the interaction for snp and center.