

Web Table 1. Odds ratios of high grade glioma for SNP associations stratified by medical center, Mayo Clinic, University of California, San Francisco (UCSF), and Duke University/University of Illinois at Chicago (DUKE/UIC), 1997-2008.

SNP	MA	Mayo (n=176 cases, 174 controls)			UCSF (n=319 cases, 602 controls)			Duke/UIC (n=360 cases, 384 controls)			Pooled (n=855 cases, 1160 controls)		
		OR	95% CI	<i>P value</i> ^a	OR	95% CI	<i>P value</i> ^a	OR	95% CI	<i>P value</i> ^a	OR	95% CI	<i>P value</i> ^a
rs2736100 (5p15.3)	A	0.72	0.52, 1.0	0.05	0.77	0.63, 0.94	0.009	1.04	0.81, 1.32	0.8	0.86	0.75, 0.99	0.036
rs4295627 (8q24.21)	C	1.76	1.20, 2.58	0.004	1.06	0.82, 1.37	0.65	1.19	0.92, 1.54	0.2	1.22	1.04, 1.43	0.015
rs1063192 (9p21.3)	G	1.63	1.21, 2.21	0.002	1.34	1.10, 1.62	0.003	1.23	0.99, 1.52	0.06	1.34	1.18, 1.52	<0.0001
rs2157719 (9p21.3)	G	1.64	1.21, 2.21	0.001	1.34	1.10, 1.62	0.003	1.17	0.94, 1.45	0.15	1.32	1.16, 1.50	<0.0001
rs1412829 (9p21.3)	G	1.59	1.17, 2.15	0.003	1.34	1.11, 1.63	0.003	1.24	1.0, 1.54	0.05	1.35	1.18, 1.53	<0.0001
rs4977756 (9p21.3)	G	1.75	1.29, 2.37	<0.001	1.27	1.04, 1.53	0.017	1.17	0.94, 1.44	0.2	1.3	1.15, 1.48	<0.0001
rs498872 (11q23.3)	A	0.95	0.69, 1.31	0.76	0.94	0.77, 1.14	0.52	1.01	0.8, 1.27	0.9	0.95	0.83, 1.09	0.49
rs6010620 (20q13.3)	A	0.49	0.33, 0.73	<0.001	0.7	0.55, 0.91	0.006	0.6	0.45, 0.8	0.0004	0.62	0.53, 0.74	<0.0001
rs6089953 (20q13.3)	A	0.51	0.35, 0.76	0.001	0.68	0.53, 0.88	0.003	0.62	0.47, 0.83	0.001	0.63	0.53, 0.74	<0.0001
rs4809324 (20q13.3)	G	1.71	1.09, 2.68	0.02	1.73	1.30, 2.29	0.0001	1.55	1.09, 2.20	0.02	1.65	1.36, 2.01	<0.0001

MA: Minor Allele.

^a*P-value* from logistic regression comparing cases and controls for each variable. Analysis includes age, gender, and region (when appropriate) as covariates. The pooled analysis adjusts for medical center.

Web Table 2. Stratified analysis of high grade glioma risk with medically significant allergy by risk allele status for three selected SNPs, Mayo Clinic, University of California, San Francisco (UCSF), and Duke University/University of Illinois at Chicago (DUKE/UIC), 1997-2008.

Risk allele	Number of Risk Alleles	Mayo		UCSF		DUKE/UIC	
		OR (95% CI) for Allergy	<i>P value</i>	OR (95% CI) for Allergy	<i>P value</i>	OR (95% CI) for Allergy	<i>P value</i>
rs4295627 (8q24.21)	0	0.72 (0.42, 1.23)	0.23	0.51 (0.33, 0.79)	0.003	0.66 (0.44, 0.97)	0.036
(allele C)	1 or 2	3.16 (1.37, 7.26)	0.007	0.54 (0.29, 0.98)	0.044	0.37 (0.22, 0.63)	<0.001
SNP-allergy interaction			0.003		0.8		0.42
rs4977756 (9p21.3)	0	0.77 (0.34, 1.74)	0.52	0.33 (0.17, 0.63)	<0.001	0.35 (0.21, 0.61)	<0.001
(allele G)	1 or 2	1.26 (0.75, 2.14)	0.38	0.66 (0.43, 0.99)	0.047	0.66 (0.45, 0.97)	0.034
SNP-allergy interaction			0.12		0.28		0.15
rs4809324 (20q13.3)	0	1.50 (0.91, 2.49)	0.11	0.50 (0.34, 0.77)	0.001	0.58 (0.4, 0.84)	0.004
(allele G)	1 or 2	0.37 (0.14, 0.94)	0.036	0.54 (0.27, 1.10)	0.088	0.39 (0.2, 0.76)	0.006
SNP-allergy interaction			0.016		0.8		0.3

^aAdjusted for age and gender.

Web Table 3. Odds ratio of high grade glioma (anaplastic astrocytoma and glioblastoma) for smoking history stratified by risk allele status of three selected SNPs, Mayo Clinic, University of California, San Francisco, and Duke University/University of Illinois at Chicago 1997-2008.

Risk alleles	Number of risk alleles	OR (95% CI) for smoking	<i>P</i> value	SNP-smoking Pooled interaction <i>P</i> -value ^a
rs4295627 (8q24.21, allele C)	0	0.93 (0.74, 1.16)	0.52	0.19
	1 or 2	0.94 (0.68, 1.29)	0.68	
rs4977756 (9p21.3, allele G)	0	0.88 (0.63, 1.21)	0.42	0.53
	1 or 2	0.95 (0.76, 1.18)	0.63	
rs4809324 (20q13.3, allele G)	0	0.94 (0.76, 1.17)	0.59	0.76
	1 or 2	0.83 (0.57, 1.20)	0.32	

^aAdjusted for age, gender, and medical center.

Web Table 4. Odds ratios for high grade glioma (anaplastic astrocytoma and glioblastoma) for three selected SNPs stratified by history of smoking, Mayo Clinic, University of California, San Francisco, and Duke University/University of Illinois at Chicago 1997-2008.

Risk alleles	Smoking History	OR (95% CI) for 1 or 2 versus 0 risk alleles	<i>P</i> value	SNP-smoking Pooled interaction <i>P</i> -value ^a
rs4295627 (8q24.21, allele C)	Yes	1.10 (0.87, 1.38)	0.42	0.19
	No	1.34 (1.06, 1.68)	0.01	
rs4977756 (9p21.3, allele G)	Yes	1.36 (1.14, 1.62)	<0.001	0.53
	No	1.26 (1.05, 1.51)	0.01	
rs4809324 (20q13.3, allele G)	Yes	1.70 (1.30, 2.21)	<0.001	0.76
	No	1.64 (1.22, 2.19)	0.001	

^aAdjusted for age, gender, and medical center.