

**Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for two additive models for variants of the base-excision repair pathway genes (*MGMT*, *MUTYH*, *OGG1*, *XRCC1*, *XRCC3*)**

Gene	Variant	rs number	Cases vs. controls (number of samples)	ADDITIVE MODEL: v/wt VS. wt/wt						ADDITIVE MODEL: var/var VS. wt/wt					
				N	Effect size		Heterogeneity		Power	N	Effect size		Heterogeneity		Power
					OR (95% C)	P value	I <sup>2</sup> (95% CI)	P value			OR (95% CI)	P value	I <sup>2</sup> (95% CI)	P value	
<b>Base-excision repair</b>															
MGMT	Leu84Phe <sup>1</sup>	rs12917	1524 vs. 4646 (5)	5	0.84 (0.70, 1.00)	0.05		0.88		5	0.97 (0.56, 1.66)	0.97		0.09	
MGMT	II3143Val <sup>1</sup>	rs2308321	1326 vs. 3520 (4)	4	0.86 (0.66, 1.12)	0.26		0.10		4	1.01 (0.56, 1.81)	0.69		0.11	
MUTYH	G396D	rs36053993	26592 vs. 19207 (15)	15	1.07 (0.91, 1.27)	0.41	0 (0, 54)	0.80	0.13	9	6.15 (2.34, 16.15)	<0.0005	0 (0, 65)	0.82	0.50
MUTYH	Y179C	rs34612342	26370 vs. 19042 (15)	14	1.34 (1.02, 1.77)	0.04	0 (0, 55)	0.99	0.55	6	3.35 (1.14, 9.89)	0.03	0 (0, 75)	0.99	0.37
OGG1	Ser326Cys	rs1052133	4713 vs. 6165 (9)	9	1.02 (0.89, 1.18)	0.74	48 (0, 76)	0.05	0.08	9	1.05 (0.89, 1.23)	0.58	42 (0, 73)	0.09	0.14
XRCC1	Arg194Trp	rs1799782	6635 vs. 8488 (11*)	10	0.96 (0.87, 1.07)	0.50	0 (0, 62)	0.62	0.13	10	1.10 (0.82, 1.48)	0.52	16 (0, 57)	0.30	0.13
XRCC1	Arg280His	rs25489	3114 vs. 3679 (5)	4	1.06 (0.83, 1.34)	0.65	41 (0, 80)	0.17	0.08	3	1.16 (0.37, 3.62)	0.31	14 (0, 91)	0.8	0.06
XRCC1	Arg399Gln	rs25487	7247 vs. 8786 (12*)	12	0.99 (0.92, 1.06)	0.72	11 (0, 51)	0.34	0.06	12	0.88 (0.79, 0.97)	0.02	0 (0, 58)	0.68	0.67
XRCC3	Thr241Met	rs861539	4484 vs. 5235 (10*)	10	0.92 (0.84, 1.01)	0.09	36 (0, 69)	0.12	0.48	10	0.95 (0.72, 1.24)	0.68	57 (12, 79)	0.01	0.12
* Includes unpublished data from SOCCS															
§ Includes unpublished data from Ontario															
<sup>1</sup> Zhong 2010															

**Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for a recessive and a dominant model for variants of the base-excision repair pathway genes (*MGMT*, *MUTYH*, *OGG1*, *XRCC1*, *XRCC3*)**

Gene	Variant	rs number	Cases vs. controls (number of samples)	RECESSIVE MODEL: var/var VS. wt/wt & wt/var						DOMINANT MODEL: wt/var & var/var VS. wt/wt					
				N	Effect size		Heterogeneity		Power	N	Effect size		Heterogeneity		Power
					OR (95% CI)	P value	I <sup>2</sup> (95% CI)	P value			OR (95% CI)	P value	I <sup>2</sup> (95% CI)	P value	
<b>Adhesion molecules</b>															
MGMT	Leu84Phe <sup>1</sup>	rs12917	1524 vs. 4646 (5)	5	0.85 (0.72, 1.00)	0.05		0.92		5	1.00 (0.58, 1.72)	0.91		0.08	

MGMT	II3143Val <sup>1</sup>	rs2308321	1326 vs. 3520 (4)	4	0.87 (0.63, 1.20)	0.38		0.02		4	1.05 (0.58, 1.89)	0.65		0.13	
MUTYH	G396D	rs36053993	26592 vs. 19207 (15)	9	6.14 (2.34, 16.13)	<0.0005	0 (0, 65)	0.82	0.80	15	1.18 (1.01, 1.39)	0.04	0 (0, 54)	0.63	0.72
MUTYH	Y179C	rs34612342	26370 vs. 19042 (15)	6	3.35 (1.13, 9.87)	0.03	0 (0, 75)	0.99	0.35	14	1.45 (1.11, 1.90)	0.007	0 (0, 55)	0.99	0.47
OGG1	Ser326Cys	rs1052133	4713 vs. 6165 (9)	9	1.00 (0.87, 1.14)	0.95	28 (0, 67)	0.19	0.05	9	1.02 (0.89, 1.16)	0.83	49 (0, 76)	0.05	0.08
XRCC1	Arg194Trp	rs1799782	6635 vs. 8488 (11*)	10	1.09 (0.81, 1.45)	0.58	16 (0, 57)	0.30	0.10	11	1.02 (0.93, 1.12)	0.70	0 (0, 60)	0.5	0.08
XRCC1	Arg280His	rs25489	3114 vs. 3679 (5)	3	1.13 (0.36, 3.52)	0.83	17 (0, 91)	0.30	0.06	5	1.00 (0.85, 1.18)	0.97	23 (0, 68)	0.27	0.05
XRCC1	Arg399Gln	rs25487	7247 vs. 8786 (12*)	12	0.89 (0.80, 0.98)	0.02	0 (0, 58)	0.62	0.61	12	0.96 (0.90, 1.03)	0.27	7 (0, 61)	0.38	0.25
XRCC3	Thr241Met	rs861539	4484 vs. 5235 (10*)	10	0.97 (0.85, 1.11)	0.64	45 (0, 74)	0.06	0.07	10	0.94 (0.81, 1.10)	0.45	59 (18, 80)	0.008	0.33
* Includes unpublished data from SOCCS															
§ Includes unpublished data from Ontario															
1Zhong 2010															