

**Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for two additive models in white populations for variants, which 95% CIs excluded unity in the main analysis**

Gene	Variant	rs number	Cases vs. controls (number of samples)	ADDITIVE MODE: var/wt VS. wt/wt						ADDITIVE MODE: 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>															
CDH1	C-160A	rs16260	7233 vs. 7182 (4*)	4	0.90 (0.84, 0.97)	0.003	51 (0, 84)	0.11	0.85	4	0.84 (0.73, 0.95)	0.006	20 (0, 88)	0.29	0.76
<b>Base-excision repair</b>															
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
XRCC1	Arg399Gln	rs25487	6017 vs. 6721 (9*)	9	0.99 (0.92, 1.07)	0.82	0 (0, 65)	0.87	0.06	9	0.88 (0.79, 0.99)	0.03	0 (0, 65)	0.56	0.60
<b>Inflammation/immune response</b>															
IL6	174G>C	rs1800795	6676 vs. 7942 (10*§)	10	1.03 (0.91, 1.17)	0.65	56 (11, 78)	0.02	0.13	10	0.94 (0.79, 1.12)	0.48	56 (11, 78)	0.02	0.24
NOD2	3020incC	rs5743293	4222 vs. 2988 (8)	8	1.39 (1.15, 1.69)	0.001	0 (0, 68)	0.45	0.94	5	2.81 (0.87, 9.05)	0.08	0 (0, 79)	0.69	0.26
NOD2	G908R	rs2066845	4541 vs. 3820 (6*)	6	1.41 (1.04, 1.91)	0.03	0 (0, 75)	0.52	0.63	0	n/a	n/a	n/a	n/a	n/a
NOD2	R702W	rs2066844	3445 vs. 2731 (6*)	6	1.22 (1.00, 1.50)	0.06	12 (0, 78)	0.34	0.49	4	1.23 (0.41, 3.70)	0.71	0 (0, 85)	0.43	0.06
<b>Inhibition of cell growth</b>															
CCND1	870A	rs17852153	2061 vs. 2588 (6)	6	1.16 (1.00, 1.34)	0.05	0 (0, 75)	0.79	0.53	6	1.09 (0.92, 1.29)	0.34	54 (0, 82)	0.06	0.18
<b>One carbon metabolism</b>															
MTHFR	C677T	rs1801133	18783 vs. 26170 (36§)	36	0.99 (0.92, 1.07)	0.83	65 (51, 76)	<0.0005	0.08	36	0.90 (0.81, 1.00)	0.05	45 (19, 63)	0.002	0.89
MTHFR	A1298C	rs1801131	10022 vs. 14027 (21§)	21	1.02 (0.96, 1.08)	0.47	1 (0, 48)	0.45	0.11	21	1.02 (0.93, 1.12)	0.67	14 (0, 49)	0.28	0.07
TS	TSER	rs34743033	3262 vs. 4518 (4)	4	0.84 (0.76, 0.93)	0.001	9 (0, 86)	0.35	0.90	4	0.84 (0.74, 0.95)	0.006	29 (0, 74)	0.24	0.77
<b>Rare, high penetrance</b>															
APC	D1822V	rs459552	6282 vs. 7038 (6)	6	0.99 (0.92, 1.07)	0.83	24 (0, 68)	0.26	0.06	6	0.84 (0.71, 0.98)	0.03	0 (0, 75)	0.45	0.55
<b>Substrate metabolism</b>															
CYP1A1	2454A>G	rs1048943	6785 vs. 7891 (8*§)	8	1.23 (1.09, 1.39)	0.001	25 (0, 66)	0.23	0.93	7	1.82 (1.09, 3.06)	0.02	0 (0, 71)	0.92	0.62
GSTM1	Null variant	n/a	8198 vs. 11753 (25)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GSTT1	Null variant	n/a	6598 vs. 9999 (20)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NAT1	slow/rapid	n/a	3128 vs. 4943 (11)	4	0.73 (0.47, 1.14)	0.17	64 (0, 88)	0.04	0.92	4	0.96 (0.67, 1.37)	0.8	0 (0, 85)	0.75	0.06

CYP2C9	430C>T	rs1799853	5134 vs. 6164 (6*)	6	0.93 (0.85, 1.02)	0.13	21 (0, 65)	0.28	0.34	6	1.29 (0.99, 1.70)	0.06	0 (0, 75)	0.66	0.46
<b>Vit D and Ca metabolism</b>															
VDR	BsmI (60890GA)	rs1544410	5217 vs. 5684 (5)	5	0.93 (0.86, 1.01)	0.07	0 (0, 79)	0.55	0.47	5	0.88 (0.79, 0.98)	0.02	0 (0, 79)	0.61	0.68
<b>Common low penetrance</b>															
SMAD7	rs4939827	rs4939827	33877 vs. 32201 (9§)	9	0.88 (0.85, 0.91)	<0.0005	0 (0, 65)	0.9	1.00	9	0.74 (0.71, 0.77)	<0.0005	32 (0, 69)	0.16	1.00
SMAD7	rs12953717	rs12953717	32118 vs. 30499 (8§)	8	1.10 (1.06, 1.14)	<0.0005	39 (0, 73)	0.12	1.00	8	1.22 (1.15, 1.29)	<0.0005	45 (0, 76)	0.08	1.00
SMAD7	rs4464148	rs4464148	15146 vs. 14338 (5*)	5	1.13 (1.08, 1.19)	<0.0005	17 (0, 83)	0.31	1.00	5	1.30 (1.21, 1.40)	<0.0005	0 (0, 79)	0.44	1.00
8q24	rs6983267	rs6983267	26458 vs. 25464 (12)	12	1.29 (1.23, 1.35)	<0.0005	24 (0, 61)	0.21	1.00	12	1.48 (1.41, 1.56)	<0.0005	0 (0, 58)	0.59	1.00
8q24	rs10505477	rs10505477	14631 vs. 15768 (12)	12	1.23 (1.16, 1.30)	<0.0005	31 (0, 65)	0.14	1.00	12	1.34 (1.22, 1.47)	<0.0005	47 (0, 73)	0.04	1.00
9p24	rs719725	rs719725	13290 vs. 14774 (13)	13	1.08 (1.00, 1.16)	0.04	0 (0, 57)	0.79	0.57	13	1.15 (1.07, 1.24)	<0.0005	0 (0, 57)	0.63	0.96
19q13.1	rs10411210	rs10411210	21972 vs. 22654 (14)	14	0.85 (0.78, 0.92)	<0.0005	61 (30, 78)	0.001	1.00	14	0.72 (0.59, 0.87)	0.001	0 (0, 55)	0.99	0.91
16q22.1	rs9929218	rs9929218	22556 vs. 23586 (15)	15	0.93 (0.90, 0.97)	<0.0005	16 (0, 54)	0.27	0.96	15	0.82 (0.76, 0.88)	<0.0005	0 (0, 54)	0.76	1.00
15q14	rs4779584	rs4779584	10037 vs. 8812 (6)	6	1.20 (1.12, 1.27)	<0.0005	29 (0, 71)	0.22	1.00	6	1.56 (1.35, 1.79)	<0.0005	53 (0, 81)	0.06	1.00
1q41	rs6691170	rs6691170	17740 vs. 19776 (11)	11	1.12 (1.07, 1.17)	<0.0005	19 (0, 59)	0.26	1.00	11	1.19 (1.12, 1.27)	<0.0005	0 (0, 60)	0.87	0.96
3q26.2	rs10936599	rs10936599	17802 vs. 19795 (11)	11	0.90 (0.86, 0.94)	<0.0005	33 (0, 67)	0.14	0.95	11	0.85 (0.78, 0.93)	<0.0005	0 (0, 60)	0.81	0.76
12q13.13	rs11169552	rs11169552	17148 vs. 19739 (11)	11	0.92 (0.88, 0.96)	<0.0005	0 (0, 60)	0.65	1.00	11	0.75 (0.66, 0.86)	<0.0005	53 (7, 76)	0.02	1.00
20q13.33	rs4925386	rs4925386	17847 vs. 19832 (11)	11	0.91 (0.87, 0.95)	<0.0005	0 (0, 60)	0.51	1.00	11	0.80 (0.75, 0.87)	<0.0005	20 (0, 59)	0.26	1.00
14q22.2	rs4444235	rs4444235	14995 vs. 15754 (10)	10	1.11 (1.05, 1.16)	<0.0005	9 (0, 66)	0.36	0.97	10	1.21 (1.13, 1.29)	<0.0005	0 (0, 62)	0.44	1.00
20p12.3	rs961253	rs961253	15037 vs. 15723 (10)	10	1.12 (1.07, 1.18)	<0.0005	0 (0, 62)	0.75	1.00	10	1.23 (1.14, 1.32)	<0.0005	0 (0, 62)	0.66	1.00
8q23.3	rs16892766	rs16892766	16385 vs. 16855 (3**)	3	1.28 (1.21, 1.35)	<0.0005	0 (0, 90)	0.84	1.00	3	1.40 (1.12, 1.75)	0.003	0 (0, 90)	0.88	0.90
10p14	rs10795668	rs10795668	16410 vs. 16860 (3**)	3	0.88 (0.84, 0.91)	<0.0005	0 (0, 90)	0.61	1.00	3	0.79 (0.74, 0.85)	<0.0005	38 (0, 81)	0.2	1.00
11q23.1	rs3802842	rs3802842	29369 vs. 27842 (11)	11	1.14 (1.11, 1.18)	<0.0005	14 (0, 55)	0.31	1.00	11	1.27 (1.20, 1.35)	<0.0005	21 (0, 60)	0.25	1.00
* Includes unpublished data from SOCCS															
§ Includes unpublished data from Ontario															
** Tomlinson 2008 was based on 10 samples															

Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) for a recessive and a dominant model in white populations for variants, which 95% CIs excluded unity in the main analysis

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	Heterogeneity I <sup>2</sup> (95% CI)	P value	
<b>Adhesion molecules</b>															
CDH1	C-160A	rs16260	7233 vs. 7182 (4*)	4	0.88 (0.77, 0.99)	0.04	22 (0, 88)	0.28	0.52	4	0.89 (0.84, 0.95)	0.001	43 (0, 81)	0.15	0.94
<b>Base-excision repair</b>															
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
XRCC1	Arg399Gln	rs25487	6017 vs. 6721 (9*)	9	0.89 (0.80, 0.99)	0.03	0 (0, 65)	0.46	0.58	9	0.97 (0.90, 1.04)	0.36	0 (0, 65)	0.9	0.14
<b>Inflammation/immune response</b>															
IL6	174G>C	rs1800795	6676 vs. 7942 (10*§)	10	0.91 (0.83, 0.99)	0.04	27 (0, 65)	0.19	0.53	10	1.00 (0.88, 1.15)	0.96	66 (34, 83)	0.002	0.05
NOD2	3020incC	rs5743293	4222 vs. 2988 (8)	5	2.70 (0.84, 8.71)	0.10	0 (0, 79)	0.71	0.31	8	1.43 (1.18, 1.73)	<0.0005	0 (0, 68)	0.44	0.97
NOD2	G908R	rs2066845	4541 vs. 3820 (6*)	0	n/a	n/a	n/a	n/a	n/a	6	1.41 (1.04, 1.91)	0.03	0 (0, 75)	0.52	0.65
NOD2	R702W	rs2066844	3445 vs. 2731 (6*)	4	1.21 (0.40, 3.63)	0.74	0 (0, 85)	0.44	0.05	6	1.22 (1.00, 1.50)	0.05	25 (0, 69)	0.24	0.48
<b>Inhibition of cell growth</b>															
CCND1	870A	rs17852153	2061 vs. 2588 (6)	6	1.09 (0.83, 1.43)	0.56	67 (22, 86)	0.009	0.25	6	1.14 (0.99, 1.31)	0.07	0 (0, 75)	0.61	0.46
<b>One carbon metabolism</b>															
MTHFR	C677T	rs1801133	18783 vs. 26170 (36§)	36	0.92 (0.83, 1.02)	0.1	52 (30, 67)	<0.0005	0.76	36	0.98 (0.91, 1.05)	0.49	60 (43, 72)	<0.0005	0.18
MTHFR	A1298C	rs1801131	10022 vs. 14027 (21§)	21	1.01 (0.92, 1.11)	0.83	10 (0, 45)	0.33	0.06	21	1.02 (0.97, 1.08)	0.45	8 (0, 43)	0.35	0.12
TS	TSER	rs34743033	3262 vs. 4518 (4)	4	0.93 (0.84, 1.04)	0.22	0 (0, 85)	0.4	0.25	4	0.84 (0.76, 0.93)	0.001	20 (0, 88)	0.29	0.94
<b>Rare, high penetrance</b>															
APC	D1822V	rs459552	6282 vs. 7038 (6)	6	0.84 (0.71, 0.99)	0.03	14 (0, 78)	0.32	0.58	6	0.97 (0.90, 1.04)	0.41	0 (0, 75)	0.45	0.14
<b>Substrate metabolism</b>															
CYP1A1	2454A>G	rs1048943	6785 vs. 7891 (8*§)	7	1.78 (1.06, 2.98)	0.03	0 (0, 71)	0.94	0.37	8	1.25 (1.11, 1.41)	<0.0005	26 (0, 67)	0.22	0.97
GSTM1	Null variant	n/a	8198 vs. 11753 (25)	n/a	n/a	n/a	n/a	n/a	n/a	25	1.11 (1.02, 1.22)	0.02	48 (16, 67)	0.005	0.95
GSTT1	Null variant	n/a	6598 vs. 9999 (20)	n/a	n/a	n/a	n/a	n/a	n/a	20	1.33 (1.14, 1.55)	<0.0005	69 (50, 80)	<0.0005	1.00

NAT1	slow/rapid	n/a	3128 vs. 4943 (11)	4	0.97 (0.71, 1.32)	0.85	0 (0, 85)	0.7	0.05	11	1.00 (0.84, 1.19)	1.00	60 (23, 79)	0.005	0.05
CYP2C9	430C>T	rs1799853	5134 vs. 6164 (6*)	6	1.31 (1.00, 1.72)	0.05	0 (0, 75)	0.65	0.56	6	0.96 (0.88, 1.05)	0.33	22 (0, 66)	0.27	0.16
<b>Vit D and Ca metabolism</b>															
VDR	BsmI (60890GA)	rs1544410	5217 vs. 5684 (5)	5	0.91 (0.83, 1.01)	0.06	38 (0, 77)	0.17	0.43	5	0.92 (0.86, 0.99)	0.02	0 (0, 79)	0.92	0.53
<b>Common low penetrance</b>															
SMAD7	rs4939827	rs4939827	33877 vs. 32201 (9§)	9	0.85 (0.79, 0.92)	<0.0005	66 (30, 83)	0.003	1.00	9	0.84 (0.81, 0.87)	<0.0005	0 (0, 65)	0.98	1.00
SMAD7	rs12953717	rs12953717	32118 vs. 30499 (8§)	8	1.17 (1.11, 1.23)	<0.0005	24 (0, 65)	0.24	1.00	8	1.13 (1.09, 1.17)	<0.0005	46 (0, 76)	0.08	1.00
SMAD7	rs4464148	rs4464148	15146 vs. 14338 (5*)	5	1.21 (1.13, 1.29)	<0.0005	0 (0, 79)	0.46	1.00	5	1.17 (1.11, 1.22)	<0.0005	20 (0, 66)	0.28	1.00
8q24	rs6983267	rs6983267	26458 vs. 25464 (12)	11	1.21 (1.16, 1.26)	<0.0005	37 (0, 69)	0.11	1.00	11	1.33 (1.27, 1.39)	<0.0005	33 (0, 67)	0.14	1.00
8q24	rs10505477	rs10505477	14631 vs. 15768 (12)	12	1.19 (1.13, 1.25)	<0.0005	39 (0, 69)	0.08	1.00	12	1.27 (1.21, 1.34)	<0.0005	40 (0, 70)	0.07	1.00
9p24	rs719725	rs719725	13290 vs. 14774 (13)	13	1.09 (1.04, 1.14)	<0.0005	31 (0, 65)	0.13	0.94	13	1.11 (1.04, 1.19)	0.003	0 (0, 57)	0.82	0.86
19q13.1	rs10411210	rs10411210	21972 vs. 22654 (14)	14	0.73 (0.60, 0.89)	0.002	0 (0, 55)	0.99	0.86	14	0.84 (0.78, 0.91)	<0.0005	58 (24, 77)	0.003	1.00
16q22.1	rs9929218	rs9929218	22556 vs. 23586 (15)	15	0.85 (0.79, 0.91)	<0.0005	0 (0, 54)	0.65	1.00	15	0.91 (0.88, 0.95)	<0.0005	0 (0, 54)	0.45	1.00
15q14	rs4779584	rs4779584	10037 vs. 8812 (6)	6	1.47 (1.27, 1.69)	<0.0005	49 (0, 80)	0.08	1.00	6	1.23 (1.16, 1.31)	<0.0005	44 (0, 78)	0.11	1.00
1q41	rs6691170	rs6691170	17740 vs. 19776 (11)	11	1.12 (1.05, 1.19)	<0.0005	0 (0, 60)	0.93	0.96	11	1.14 (1.09, 1.19)	<0.0005	13 (0, 53)	0.32	1.00
3q26.2	rs10936599	rs10936599	17802 vs. 19795 (11)	11	0.89 (0.81, 0.97)	0.008	0 (0, 60)	0.79	0.76	11	0.89 (0.85, 0.93)	<0.0005	27 (0, 64)	0.19	1.00
12q13.13	rs11169552	rs11169552	17148 vs. 19739 (11)	11	0.78 (0.69, 0.88)	<0.0005	55 (11, 77)	0.01	1.00	11	0.90 (0.86, 0.94)	<0.0005	0 (0, 60)	0.50	1.00
20q13.33	rs4925386	rs4925386	17847 vs. 19832 (11)	11	0.84 (0.78, 0.90)	<0.0005	0 (0, 60)	0.46	1.00	11	0.89 (0.86, 0.93)	<0.0005	18 (0, 58)	0.27	1.00
14q22.2	rs4444235	rs4444235	14995 vs. 15754 (10)	10	1.13 (1.07, 1.20)	<0.0005	0 (0, 62)	0.48	0.99	10	1.14 (1.08, 1.19)	<0.0005	12 (0, 53)	0.33	1.00
20p12.3	rs961253	rs961253	15037 vs. 15723 (10)	10	1.15 (1.08, 1.23)	<0.0005	0 (0, 62)	0.6	0.99	10	1.14 (1.09, 1.20)	<0.0005	0 (0, 62)	0.76	1.00
8q23.3	rs16892766	rs16892766	16385 vs. 16855 (3**)	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
10p14	rs10795668	rs10795668	16410 vs. 16860 (3**)	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a
11q23.1	rs3802842	rs3802842	29369 vs. 27842 (11)	11	1.19 (1.13, 1.26)	<0.0005	19 (0, 59)	0.27	1.00	11	1.17 (1.13, 1.21)	<0.0005	19 (0, 59)	0.26	1.00
* Includes unpublished data from SOCCS															
§ Includes unpublished data from Ontario															
** Tomlinson 2008 was based on 10 samples															