

**Summary crude odds ratios (ORs) and 95% Confidence Intervals (95% CI) based on the model free approach for those SNPs that were identified as true positives after applying the BFD and Venice criteria**

Gene	Variant	rs number	ADDITIVE MODEL: var/wt VS. wt/wt		ADDITIVE MODEL: var/var VS. wt/wt		lamda		log odds ratio	
			Effect size		Effect size		(95% CI)	P value	(95% CI)	P value
			OR (95% CI)	P value	OR (95% CI)	P value				
<b>Adhesion molecules</b>										
CDH1	C-160A	rs16260	0.91 (0.85, 0.97)	0.007	0.85 (0.74, 0.96)	0.02	0.58 (0.05, 1.11)	0.03	-0.17 (-0.29, -0.04)	0.01
MMP1	G-1607GG	rs1799750	1.06 (0.82, 1.31)	0.66	1.27 (0.95, 1.59)	0.11	0.26 (-0.55, 1.07)	0.53	0.24 (-0.01, 0.49)	0.06
MMP3	AAAAA-1612AAAAA	rs3025058	0.78 (0.57, 0.98)	0.12	1.18 (0.84, 1.52)	0.34	-1.48 (-5.27, 2.31)	0.44	0.17 (-0.12, 0.45)	0.25
<b>Alcohol metabolism</b>										
ALDH2	Glu487Lys	rs671	0.89 (0.78, 0.99)	0.08	0.91 (0.70, 1.12)	0.48	1.27 (-1.87, 4.41)	0.43	-0.09 (-0.33, 0.14)	0.43
<b>Base-excision repair</b>										
MUTYH	G396D*	rs36053993	1.07 (0.89, 1.25)	0.47	3.89 (0.84, 6.94)	0.08	0.05 (-0.08, 0.17)	0.44	1.36 (0.57, 2.14)	0.001
XRCC1	Arg399Gln	rs25487	0.99 (0.92, 1.05)	0.79	0.88 (0.79, 0.97)	0.02	0.10 (-0.41, 0.62)	0.69	-0.13 (-0.23, -0.02)	0.02
<b>Inflammation/immune response</b>										
IL6	174G>C	rs1800795	1.03 (0.95, 1.10)	0.47	0.92 (0.83, 1.01)	0.11	-0.26 (-1.29, 0.77)	0.62	-0.08 (-0.18, 0.01)	0.09
NOD2	3020incC*	rs5743293	1.40 (1.12, 1.67)	0.003	2.26 (xx, 4.63)		0.41 (-0.17, 0.99)	0.16	0.81 (-0.24, 1.87)	0.13
NOD2	R702W*	rs2066844	1.22 (0.97, 1.47)	0.09	1.14 (xx, 2.33)		1.57 (-11.40, 14.54)	0.81	0.13 (-0.92, 1.18)	0.81
<b>Inhibition of cell growth</b>										
CCND1	870A	rs17852153	1.13 (1.02, 1.25)	0.02	1.14 (1.01, 1.27)	0.03	0.96 (0.29, 1.62)	0.005	0.13 (0.02, 0.24)	0.02
TGFBR1	TGFBR1*6A	rs11466445	1.15 (1.01, 1.30)	0.03	1.46 (0.75, 2.17)	0.27	0.38 (-0.20, 0.96)	0.2	0.38 (-0.11, 0.86)	0.13
<b>One carbon metabolism</b>										
MTHFR	C677T	rs1801133	1.00 (0.96, 1.03)	0.96	0.87 (0.83, 0.92)	6.60E-09	0.01 (-0.24, 0.26)	0.94	-0.13 (-0.19, -0.08)	<0.0005
TS	TSER	rs34743033	0.84 (0.75, 0.93)	0.003	0.84 (0.73, 0.94)	0.02	0.98 (0.34, 1.63)	0.003	-0.18 (-0.31, -0.05)	0.006
<b>Rare, high penetrance</b>										
APC	D1822V	rs459552	0.99 (0.92, 1.07)	0.79	0.84 (0.70, 0.97)	0.06	0.05 (-0.37, 0.46)	0.82	-0.18 (-0.34, -0.01)	0.03
<b>Substrate metabolism</b>										
CYP1A1	2454A>G*	rs1048943	1.14 (1.04, 1.24)	0.005	1.56 (1.20, 1.92)	0.0009	0.30 (0.07, 0.53)	0.01	0.45 (0.22, 0.67)	<0.0005
NAT1	slow/rapid§	n/a	0.82 (0.70, 0.93)	0.01	1.00 (1.00, 1.00)	0.33	-3857 (-76026, 68311)	0.92	0.00 (-0.00, 0.00)	0.92

<b>Vit D and Ca metabolism</b>										
VDR	Bsm1 (60890GA)	rs1544410	0.89 (0.82, 0.95)	0.005	0.76 (0.69, 0.84)	2.60E-08	0.44 (0.18, 0.70)	0.001	-0.27 (-0.37, -0.17)	<0.0005
<b>Common low penetrance</b>										
SMAD7	rs4939827	rs4939827	0.88 (0.85, 0.91)	<0.0005	0.75 (0.72, 0.78)	<0.0005	0.44 (0.33, 0.54)	<0.0005	-0.29 (-0.33, -0.24)	<0.0005
SMAD7	rs12953717	rs12953717	1.11 (1.06, 1.15)	<0.0005	1.23 (1.17, 1.30)	<0.0005	0.48 (0.30, 0.66)	<0.0005	0.21 (0.15, 0.26)	<0.0005
SMAD7	rs4464148	rs4464148	1.13 (1.08, 1.19)	<0.0005	1.30 (1.21, 1.39)	<0.0005	0.48 (0.30, 0.66)	<0.0005	0.26 (0.19, 0.33)	<0.0005
8q24	rs6983267**	rs6983267	1.23 (1.18, 1.27)	<0.0005	1.41 (1.34, 1.47)	<0.0005	0.60 (0.51, 0.69)	<0.0005	0.34 (0.30, 0.38)	<0.0005
8q24	rs10505477	rs10505477	1.21 (1.15, 1.27)	<0.0005	1.33 (1.25, 1.41)	<0.0005	0.68 (0.53, 0.82)	<0.0005	0.29 (0.23, 0.34)	<0.0005
9p24	rs719725	rs719725	1.08 (1.00, 1.15)	0.05	1.15 (1.07, 1.23)	<0.0005	0.53 (0.18, 0.88)	0.003	0.14 (0.07, 0.21)	<0.0005
19q13.1	rs10411210	rs10411210	0.87 (0.84, 0.91)	<0.0005	0.80 (0.69, 0.91)	0.003	0.59 (0.21, 0.98)	0.003	-0.23 (-0.36, -0.09)	0.001
16q22.1	rs9929218	rs9929218	0.93 (0.90, 0.97)	<0.0005	0.84 (0.78, 0.89)	<0.0005	0.40 (0.18, 0.61)	<0.0005	-0.18 (-0.25, -0.11)	<0.0005
15q14	rs4779584	rs4779584	1.18 (1.11, 1.24)	<0.0005	1.35 (1.23, 1.47)	<0.0005	0.54 (0.35, 0.73)	<0.0005	0.30 (0.21, 0.39)	<0.0005
1q41	rs6691170	rs6691170	1.12 (1.07, 1.17)	<0.0005	1.19 (1.11, 1.27)	<0.0005	0.66 (0.38, 0.94)	<0.0005	0.17 (0.11, 0.24)	<0.0005
3q26.2	rs10936599	rs10936599	0.90 (0.86, 0.94)	<0.0005	0.85 (0.78, 0.93)	<0.0005	0.68 (0.26, 1.10)	0.002	-0.16 (-0.25, -0.07)	<0.0005
12q13.13	rs11169552	rs11169552	0.92 (0.88, 0.96)	<0.0005	0.77 (0.70, 0.83)	<0.0005	0.30 (0.13, 0.47)	0.001	-0.27 (-0.35, -0.18)	<0.0005
20q13.33	rs4925386	rs4925386	0.91 (0.87, 0.95)	<0.0005	0.80 (0.74, 0.86)	<0.0005	0.42 (0.22, 0.63)	<0.0005	-0.22 (-0.29, -0.15)	<0.0005
14q22.2	rs4444235	rs4444235	1.09 (1.04, 1.14)	<0.0005	1.18 (1.11, 1.24)	<0.0005	0.52 (0.27, 0.76)	<0.0005	0.16 (0.11, 0.22)	<0.0005
20p12.3	rs961253	rs961253	1.13 (1.08, 1.18)	<0.0005	1.23 (1.14, 1.31)	<0.0005	0.60 (0.36, 0.84)	<0.0005	0.20 (0.13, 0.27)	<0.0005
8q23.3	rs16892766§§	rs16892766	1.24 (1.08, 1.41)	0.002	1.22 (0.66, 1.78)	0.53	1.10 (-1.49, 3.69)	0.4	0.20 (-0.26, 0.66)	0.4
10p14	rs10795668§§	rs10795668	0.87 (0.80, 0.94)	0.001	0.70 (0.61, 0.80)	<0.0005	0.40 (0.17, 0.63)	0.001	-0.35 (-0.48, -0.22)	<0.0005
11q23.1	rs3802842	rs3802842	1.15 (1.12, 1.19)	<0.0005	1.29 (1.22, 1.36)	<0.0005	0.56 (0.41, 0.71)	<0.0005	0.25 (0.20, 0.31)	<0.0005
* 0.05 added in cells with zero counts										
§ Based on 7 studies (instead of 16)										
** Tomlinson and Haiman not included, because they didn't report genotype counts										
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