

Supplementary Table 2 Results of association between rs16953002 and melanoma, including results for genotyped subjects only, those with BMI only and adjusting for BMI (split into quartiles) as a categorical covariate.

	rs16953002 and melanoma				rs16953002 and melanoma genotyped only			rs16953002 and melanoma BMI only			rs16953002 and melanoma BMI adjusted		
	MAF	No of cases/controls	OR (95% CI)	P	No of cases/controls	OR (95% CI)	P	No of cases/controls	OR (95% CI)	P	No of cases/controls	OR (95% CI)	P
GenoMEL Phase I	0.16	1,353 / 3,566	1.32 (1.17,1.50)	1.3×10 ⁻⁵	687 / 3,461	1.28 (1.09,1.51)	0.003	144 / 1,355	1.16 (1.03,1.31)	0.02	144 / 1,355	1.16 (1.03,1.31)	0.02
All replicates	0.17	12,314 / 55,667	1.14 (1.09,1.19)	4.8×10 ⁻⁹	12,314 / 55,667	1.14 (1.09,1.19)	4.8×10 ⁻⁹	4,968 / 33,623	1.09 (1.02,1.17)	0.02	4,968 / 33,623	1.06 (0.99,1.13)	0.08
Overall	0.17	13,667 / 59,233	1.16 (1.11,1.20)	3.6×10 ⁻¹²	13,001 / 59,128	1.15 (1.10,1.19)	1.48×10 ⁻¹⁰	5,112 / 34,978	1.11 (1.04,1.18)	0.001	5,112 / 34,978	1.08 (1.02,1.14)	0.01