

Table S8. Gene-environment interactions between SNPs and breast cancer risk factors in Caucasians with interaction p-value 10^{-3}, overall and by ER status, restricted to population-based studies

Variable	SNP	Locus	All			Estrogen receptor-positive			Estrogen receptor-negative		
			N (cases/controls)	OR (95%CI) ¹	P-value ²	N (cases)	OR (95%CI) ¹	P-value ²	N (cases)	OR (95%CI) ¹	P-value ²
Number of births (among parous)	rs3817198	LSP1	11730/14773	1.08 (1.05-1.12)	3.3 x10 ⁻⁶	6662	1.08 (1.04-1.13)	3.1 x10 ⁻⁴	2259	1.1 (1.03-1.17)	0.005
Parous (yes/no)	rs11249433	<i>lpl1.2</i>	14741/18447	1.15 (1.05-1.26)	0.003	8983	1.18 (1.06-1.31)	0.003	2905	1.15 (0.97-1.35)	0.107
Mean lifetime intake of alcohol ⁴ (<20/ >=20g/day)	rs17468277 ⁵	<i>CASP8</i>	6081/ 9305	1.59 (1.24-2.05)	3.1x10 ⁻⁴	4309	1.57 (1.20-2.06)	0.001	1398	1.39 (0.86-2.25)	0.182

¹ Odds ratio (95% confidence interval) for GxE interaction from case-control analysis stratified by study, adjusted for reference age

² p-value for GxE interaction from case-control analysis stratified by study and adjusted for reference age

³ MHT: menopausal hormone therapy, model used never use of MHT as the reference category and adjusted for former use of MHT and current use of other MHT type, as appropriate.

⁴ Mean lifetime daily alcohol intake derived from duration and amount of alcohol intake in g/day at different age periods

⁵ or the highly correlated SNP rs1045485 ($r^2=1$ in HapMap CEU)